



**Tender for Procurement of Turbine Flow Meter (Custody Meter) and  
EVC at Mother Station to get 4-20 mA flow signal to automize  
Odorization Unit at Vijayawada GA  
Bid Document No: BGL/713/2025-26**

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**BHAGYANAGAR GAS LIMITED**  
(A JOINT VENTURE OF HPCL & GAIL)

**BID DOCUMENT FOR**

**Tender for Procurement of Turbine Flow Meter (Custody Meter)  
and EVC at Mother Station to get 4-20 mA flow signal to automize  
Odorization Unit at Vijayawada GA**

**UNDER OPEN DOMESTIC  
COMPETITIVE BIDDING**

**e- tender**

**Bid Document No.: BGL/713/2025-26**

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**Tender for Procurement of Turbine Flow Meter (Custody Meter)  
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**Domestic Competitive e-Bidding  
Through GeM tender Portal  
(<https://gem.gov.in>)**

**TENDER FOR PROCUREMENT OF TURBINE FLOW METER (CUSTODY  
METER) AND EVC AT MOTHER STATION TO GET 4-20 MA FLOW SIGNAL TO  
AUTOMIZE ODORIZATION UNIT AT VIJAYAWADA GA**

**Tender No.: BGL/713/2025-26  
GeM Tender No.: [GEM/2026/B/7303167](https://gem.gov.in)**

**Below Special Noting for attention of Bidders:**

[In case of any conflict in terms & condition of tender document uploaded by BGL at GEM provisions/ condition available at GeM portal (including General Terms and Conditions (GTC)), the terms & condition including provision(s) of tender document uploaded by BGL shall prevail]

**IMPORTANT NOTE:** In addition to GeM Contract(s), BGL will place SAP generated Order(s) / Contract(s) outside GeM portal for execution of Order(s) / Contract(s) and payment to suppliers outside GeM portal. SAP Order(s)/Contract(s) will be generated by mentioning unit price excluding GST, quantity and percentage of GST. Thus, break-up of quoted prices (such as Ex-works price, freight charges & GST) shall be provided by bidders post price bid opening, based on request from BGL.(Wherever applicable)

(Sign & Seal of Bidder)

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(Sign & Seal of Bidder)



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## **SECTION- I**

## **INVITATION FOR BID (IFB)**

(Sign & Seal of Bidder)



**Tender for Procurement of Turbine Flow Meter (Custody Meter) and EVC at Mother Station to get 4-20 mA flow signal to automatize Odorization Unit at Vijayawada GA**  
**Bid Document No: BGL/713/2025-26**

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**Ref No: BGL/713/2025-26**

**Date: 27.02.2025**

To,

**PROSPECTIVE BIDDERS**

**SUB: Tender for Procurement of Turbine Flow Meter (Custody Meter) and EVC at Mother Station to get 4-20 mA flow signal to automatize Odorization Unit at Vijayawada GA.**

**Dear Sir/Madam,**

Bhayanagar Gas Limited (BGL) is a joint venture of M/s. GAIL (India) Limited and M/s. Hindustan Petroleum Corporation Limited (HPCL) and operating CNG & City Gas Distribution in the states of Telangana and Andhra Pradesh.

2.0 The brief details of the tender are as under:

(A)	NAME OF WORK / BRIEF SCOPE OF WORK/JOB	<b>Tender for Procurement of Turbine Flow Meter (Custody Meter) and EVC at Mother Station to get 4-20 mA flow signal to automatize Odorization Unit at Vijayawada GA</b>	
(B)	TENDER NO. & DATE	<b>BGL/713/2025-26 Dated: 27.02.2025</b>	
(C)	TYPE OF BIDDING SYSTEM	SINGLE BID SYSTEM	-
		TWO BID SYSTEM	✓
(D)	TYPE OF TENDER	E-TENDER	✓
		MANUAL	-
(E)	COMPLETION/CONTRACT PERIOD	<b>04 Months from the date of Fax of Acceptance (FOA).</b>	
(F)	BID SECURITY / EARNEST MONEY DEPOSIT (EMD)	APPLICABLE	✓
		NOT APPLICABLE	-
		Amount: INR <b>Rs. 30,352/-</b>	
(F1)	DECLARATION FOR BID SECURITY	MSE/STARTUP/CPSCE is required to submit declaration for bid security in Bid as per Performa at FORM F-2	

(Sign & Seal of Bidder)



**Tender for Procurement of Turbine Flow Meter (Custody Meter) and EVC at Mother Station to get 4-20 mA flow signal to automatize Odorization Unit at Vijayawada GA**  
**Bid Document No: BGL/713/2025-26**

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<b>(G)</b>	AVAILABILITY OF TENDER DOCUMENT ON WEBSITE(S)	From 27.02.2026 to 21.03.2026 16:00 Hrs, IST) on following websites: i) www.bglgas.com/tenders ->e-tender on website ii) www.cppportal/e-publish iii) https://www.gem.gov.in The bidders are requested to submit soft copies of their bid electronically on the GEM Portal
<b>(H)</b>	DATE, TIME & VENUE OF PRE-BID MEETING	Date : 07.03.2026 Time : 11:00Hrs Venue : Virtual
<b>(I)</b>	DUE DATE & TIME OF BID-SUBMISSION (ON OR BEFORE)	Date : 21.03.2026. Time : 16:00 hrs
<b>(J)</b>	DATE AND TIME OF UN-PRICED BID OPENING	Date : 21.03.2026 Time : 16:30 hrs
<b>(K)</b>	CONTACT DETAILS OF TENDER DEALING OFFICER	Name : Mr. Pradeep Kumar Yadav Designation: Manager Phone No. & Extn : 040-23236983 Direct No.: e-mail : <a href="mailto:pradeep.yadav@bglgas.com">pradeep.yadav@bglgas.com</a>
<b>I</b>	DEALING BGL'S OFFICE ADDRESS	<b>Bhayanagar Gas Limited</b> 2nd Floor, TSIDC Building Parishram Bhavan, Basheer Bagh, Hyderabad-500 004

**2.0 EVALUATION BASIS**

As per relevant clause of Bid Evaluation criteria.

**3.0 i) Bid Document calls for offers on single point "Prime Bidder"**

Responsibility basis. Bidders are therefore advised not to submit offers in "Consortium" or "Joint Bid". Joint bid referred herein is an offer, which seeks order to be placed on more than one party/co-bidder.

ii) Order will be placed on the "Prime Bidder" alone who will be responsible for all contractual purposes. The status of all other vendors as may be referred/identified by the Prime Bidder in the offer, shall be that of sub-vendor/sub-supplier.

(Sign & Seal of Bidder)

The prices once quoted by the bidder shall not be allowed for any subsequent price revision/adjustments at his own. As such, bidders are advised to ensure that their offer is on single bidder responsibility basis is complete as per scope of work/supply as specified in Bid Document.

- 4.0 The following documents in addition to uploading in the e-bid on BGL e-tendering portal, shall also be submitted in Original (in physical form) within 7 (seven) days from the bid due date provided the scanned copies of the same have been uploaded along with the e-bid within the Due Date & Time of Bid Submission:
- i) EMD/Bid Security (if applicable) / undertaking letter  
[Note: Submission of original is not applicable for online banking transaction]
  - ii) Power of Attorney
- 5.0 Bidder must furnish turnover details for the last three financial years along with their bid. It may please be noted that in case performance is not satisfactory, the offer is liable to be rejected.
- 6.0 Bidder shall ensure that Bid Security having a validity of **04 months** from the bid due date, must accompany the offer.
- 7.0 Bids complete in all respects should reach on or before the BID DUE DATE AND TIME. Fax/Telex/Telegraphic/ E-Mail/Physical bids shall be rejected. Only bid submitted through GeM portal - <https://gem.gov.in/> will be accepted.
- 8.0 Bhagyanagar Gas Limited (BGL) reserves the right to reject any or all the bids received, at its discretion without assigning any reason, whatsoever.
- 9.0 This Request for Quotation (RFQ) is an integral and inseparable part of the enclosed Bid Document
- ~~10.0 The bid opening of the un-priced part and price part shall be in the presence of representative of bidder who may likely to be present in the bid opening shall be attended as per the e-tendering procedure through online mode. However, date of opening of price part will be intimated to the bidder later on with a notice period of 2 days.~~
- 11.0 Bidder to confirm separately that they have not been banned from submitting offer by any Govt. / Public Sector Undertaking of India.
- 12.0 **BIDDER IS ADVISED TO QUOTE STRICTLY AS PER TERMS AND CONDITIONS OF TENDER DOCUMENT AND NOT TO STIPULATE ANY DEVIATION/ EXCEPTIONS. BIDDER MAY NOTE THAT TECHNICAL OR COMMERCIAL CLARIFICATIONS NORMALLY WILL NOT BE SOUGHT FOR AFTER THE RECEIPT OF THE BIDS. BIDDERS ARE ADVISED IN THEIR OWN INTEREST TO ADHERE TO ALL THE TECHNICAL AND COMMERCIAL CONDITIONS AS PER BID DOCUMENT. HOWEVER, BGL**
- (Sign & Seal of Bidder)



**Tender for Procurement of Turbine Flow Meter (Custody Meter)  
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**RESERVES THE RIGHT TO ACCEPT ANY DEVIATION WITH  
APPROPRIATE COMMERCIAL LOADING IN THE BEST INTEREST OF THE  
PROJECT.**

13.0 Bidder, if so desired, may seek clarification on the tender document. Any request to this effect should positively reach before 7 days of due date of submission of bid on the following address:-

Manager (C&P)  
Bhagyanagar Gas Limited  
2nd Floor, TSIDC Building  
Parishram Bhavan,  
Basheer Bagh, Hyderabad  
Ph No.: 040- 23236983  
Fax. No.: 040- 23245081  
Email: [pradeep.yadav@bglgas.com](mailto:pradeep.yadav@bglgas.com) / [cnp@bglgas.com](mailto:cnp@bglgas.com)

In the event such written notice is not received at the aforementioned office within Seven (7) days from the date of issue of the bidding document to the bidder, the bidding documents received by the bidder shall be deemed to be complete in all respects. No extension of time shall be granted under any circumstances to any bidder for submission of its bid on the grounds that the bidder did not obtain a complete set of the bidding document.

BGL makes no representation or warranty, express or implied, as to the accuracy, correctness and completeness of the information contained in the bidding document.

Please specify the Bid Document Number in all your correspondence.

THIS IS NOT AN ORDER

Yours faithfully,  
FOR AND ON BEHALF OF  
Bhagyanagar Gas Limited

Enclosure: Bid Document

Manager (C & P)

(Sign & Seal of Bidder)



**Tender for Procurement of Turbine Flow Meter (Custody Meter) and EVC at Mother Station to get 4-20 mA flow signal to automize Odorization Unit at Vijayawada GA**  
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**CUT-OUT SLIP**  
**DO NOT OPEN - THIS IS A QUOTATION**

***Bid Document No. : BGL/713/2025-26***  
***GEM ID No. :***

***Description:*** Tender for Procurement of Turbine Flow Meter (Custody Meter) and EVC at Mother Station to get 4-20 mA flow signal to automize Odorization Unit at Vijayawada GA

***Bid Due Date & Time : 21.03.2026***

***From: To:***

<p>.....</p> <p>.....</p>	<p>.....</p> <p>.....</p>
---------------------------	---------------------------

***(To be pasted on the envelope containing Physical documents)***

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(Sign & Seal of Bidder)



**Tender for Procurement of Turbine Flow Meter (Custody Meter)  
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**SECTION 2**  
**BID EVALUATION CRITERIA**

(Sign & Seal of Bidder)



**Tender for Procurement of Turbine Flow Meter (Custody Meter) and EVC at Mother Station to get 4-20 mA flow signal to automatize Odorization Unit at Vijayawada GA**  
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**BID EVALUATION CRITERIA (BEC):**

**A. Technical Criteria:**

- A. The bidder should have executed at least one single work order/ purchase order for having design, engineering, supply, supervision during installation and commissioning of minimum one number Turbine Flow Meter (AGA-7 based) of 4",300# G250 equal or higher in terms of size, capacity, pressure rating and minimum one number Electronic Volume Corrector in same/different work order for Natural Gas services in the preceding 7 (seven) years reckoned from the bid due date.

Description of items	Minimum quantity requirement for BEC Qualification (Nos.)
Turbine Flow Meter (TFM) of 4",300# G250 or higher in terms of size, capacity, pressure rating (AGA-7 based)	1
Electronic Volume Corrector	1

**B. General:**

- Bidder should be either manufacturer of Turbine Flow Meter (TFM) used for custody transfer of Natural Gas **OR** Subsidiary/Authorized Distributor/ Dealer / Integrator/Channel Partner of the manufacturer of Turbine Flow Meter (TFM) used for custody transfer of Natural Gas.
- Bidder shall be Manufacturer/Authorized Dealer/Distributor of "EVC – Electronic Volume Corrector".
- Only documents (Purchase Order, Completion certificate, Execution Certificate etc.) which have been referred/ specified in the bid shall be considered in reply to queries during evaluation of Bids. After submission of bid, only related shortfall documents will be asked for in TQ/CQ and considered for evaluation. For example, if the bidder has submitted a contract without its completion/ performance certificate, the certificate will be asked for and considered. However, no new reference/ PO/WO/LOA is to be submitted by bidder in response to TQ/CQ to qualify and such documents will not be considered by BGL for evaluation of Bid.
- Apart from above, Bidder must submit all other relevant documents/ information as specified in the Scope of Work/SCC for Technical Evaluation of bid or specified elsewhere in the Tender Document, towards proof of its responsiveness.

**C. Documents Required:**

Documents required to be submitted by the bidder along with the bid for qualification of BEC.

(Sign & Seal of Bidder)

<b>BEC CLAUSE NO.</b>	<b>DESCRIPTION</b>	<b>DOCUMENTS REQUIRED FOR QUALIFICATION</b>
<b>A</b>	<b>DOCUMENTS REQUIRED-TECHNICAL CRITERIA</b>	
A.1	Experience criteria for the bidder (Quantity)	<p>Copy of</p> <p>a) Detailed Letter of Award/ Purchase Order/ Contract with SOR.</p> <p>b) Inspection Release Note cum Dispatch Proof / Completion Certificate issued by end user/ owner (or their consultant who has been duly authorized by them to issue such certificate)/ copy of invoice along with copy of LR and payment receipt/certificate against the invoice etc clearly mentioning PO reference no. &amp; the quantity supplied.</p>
A.2	Bidder using credentials in the case of Manufacturer	<p>Bidder to submit valid copy of company registration certificate /ISO Certificate / NSIC / Excise registration certificate or any other statutory document, clearly evidencing the status of bidder as manufacturer of Turbine Flow Meter (TFM) used for custody transfer of Natural Gas as on Bid Due Date.</p> <p>“Manufacture” must submit a copy of valid ‘Company Registration Certificate/ISO-certificate/NSIC certificate/certificate issued by statutory authority’ for EVC.</p>
A.3	In case of Subsidiary/Authorized Distributor/ Dealer / Integrator/ Channel Partner	<p>Bidder should provide valid authorization certificate issued directly by manufacturer.</p> <p>Also, valid copy of registration certificate /ISO Certificate / NSIC / Excise registration certificate or any other statutory document should be submitted evidencing Principal being manufacturer of Turbine Flow Meter (TFM) used for custody transfer of Natural Gas.</p> <p>“Authorized Dealer / Distributor” must submit a copy of valid Authorization certificate from the OEM Manufacturer, along with company registration certificate of the OEM Manufacturer &amp; Self. (valid as on bid opening date) for EVC.</p>
A.4	Bidder using credentials Incase of of Foreign Manufacturer: Proof of foreign manufacturer (having manufacturing unit outside India) of	<p>Bidder to submit the foreign manufacturer’s copy of,</p> <p>a) Documents required against sl. no. A.1 above in respect of foreign manufacturer meeting BEC – technical.</p> <p>b) Documents as stated under sl. no. D below.</p> <p>c) A written agreement from their foreign manufacturer</p>

(Sign & Seal of Bidder)



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	Decompression unit past experience of supply as per A.1.	(having manufacturing unit outside India) to own complete responsibility of design, QA/QC, after sales technical support, unconditional guarantee/warranty, post warranty service and after sales support to the purchase along with bidder. The authority certificate shall be valid up to the completion of contract in accordance with the bid document. Bidders submit a declaration.  d) Letter stating that they are qualifying based on their foreign manufacturer's past supply experience.
A.5	Job executed for Subsidiary / Fellow subsidiary / Holding company	Tax paid invoice(s) duly certified by statutory auditor of the bidder towards payments of statutory tax in support of the job executed for Subsidiary / Fellow subsidiary / Holding company

**D. Authentication of documents submitted in support of Technical Criteria:**

All documents in support of Technical Criteria of BEC to be furnished by the Bidder shall necessarily be **duly certified/ attested by Chartered Engineer and Notary Public with legible stamp.**

Note: In case bidder is qualifying based on their foreign based supporting company's credentials, authentication requirements for such documents shall be applicable as required below:  
Documents in support of Technical Criteria of BEC to be furnished by the Bidder shall necessarily be duly certified/ attested by Chartered Engineer/ Licensed Professional Engineer/EurEta Registered Engineer/ Eur Ing or Equivalent Registered Engineer of bidder's country with legible stamp.

Further, supporting document pertaining to technical BEC should also be certified true copies, duly signed, dated and stamped by an official, authorized for this purpose in Indian Embassy/ High Commission in bidder's country. However, member countries of Hague Convention 1961, supporting document pertaining to technical BEC Apostille affixed by Competent Authorities designated by the government of bidder's country shall also be acceptable.

**D.1 Authentication of documents to be submitted in Support of BEC:**

**(i) Technical Criteria of BEC:**

All documents in support of Technical Criteria of BEC to be furnished by the Bidder shall necessarily be duly certified/ attested by Chartered Engineer and Notary Public with legible stamp.

(Sign & Seal of Bidder)

## **E. EVALUATION & AWARD METHODOLOGY**

Chapter 2 Evaluation shall be done on overall least cost basis to BGL.

Chapter 3 Bidder shall have to quote for all the line items for entire quantity of SOR otherwise their bid will not be considered.

**Chapter 4** The bids will be awarded based on total price including applicable GST.

**F.** Relaxation of Prior Turnover And Prior Experience For Startpus (As Defined In Gazette Notification No. D.L-33004/99 Dated 18.02.2016 And 23.05.2017 Of Ministry of Commerce and Industry), As Amended Time To Time – **Not Applicable in this tender**

**G.** PPP 2012 applicable in this tender.

(Sign & Seal of Bidder)



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**SECTION-03  
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(Sign & Seal of Bidder)

**INSTRUCTION TO BIDDERS**

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(Sign & Seal of Bidder)

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(Sign & Seal of Bidder)

**Related to ITB:**

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(Sign & Seal of Bidder)

**[A] – GENERAL**

**1 SCOPE OF BID**

- 1.1 The Purchaser as defined in the "General Conditions of Contract-Goods [GCC-Goods]", wishes to receive bids as described in this invitation to offer (the “**Tender Document /Bid Document**”) issued by the Purchaser. Purchaser/Owner occurring herein under shall be considered synonymous.
- 1.2 SCOPE OF BID: The scope of Supply shall be as defined in the Tender Document.
- 1.3 The successful Bidder (the “**Supplier**”) shall complete delivery of goods along with its incidental services (if any) as per Specification, Scope of Supply/Job within the period stated in Special Conditions of Contract.
- 1.4 Throughout the Tender Documents, the terms 'Bid', 'Tender' & ‘Offer’ and their derivatives [Bidder/Tenderer, Bid/Tender/Offer etc.] are synonymous. Further, 'Day' means 'Calendar Day' and 'Singular' also means 'Plural'.

**2 ELIGIBLE BIDDERS**

- 2.1 The Bidder shall not be under a declaration of ineligibility by Employer for Corrupt/ Fraudulent/ Collusive/ Coercive practices, as defined in "Instructions to Bidders [ITB], Clause No. 38” (Action in case Corrupt/ Fraudulent/ Collusive/ Coercive Practices).
- 2.2 The Bidder is not put on ‘Holiday’ by BGL/ GAIL or Public Sector Project Management Consultant (like Mecon etc. only due to “poor performance” or “corrupt and fraudulent practices”) or banned/blacklisted by Government department/ Public Sector on due date of submission of bid. Further, neither bidder nor their allied agency/(ies) (as defined in the Procedure for Action in case of Corrupt/ Fraudulent/ Collusive/ Coercive Practices) are on banning list of BGL or the Ministry of Petroleum and Natural Gas.

If the bidding documents were issued inadvertently/ downloaded from website, offers submitted by such bidders shall not be considered for opening/ evaluation/Award and will be returned immediately to such bidders.

In case there is any change in status of the declaration prior to award of contract, the same has to be promptly informed to BGL by the bidder.

It shall be the sole responsibility of the bidder to inform BGL in case the bidder is put on ‘Holiday’ by BGL or banned/blacklisted by Government department/ Public Sector on due date of submission of bid and during the course of finalization of the tender. Concealment of the facts shall tantamount to misrepresentation of facts and shall lead to action against such Bidders as per clause 38 of ITB.

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- 2.3 The Bidder should not be under any liquidation court receivership or similar proceedings on due date of submission of bid.  
In case there is any change in status of the declaration prior to award of contract, the same has to be promptly informed to BGL by the bidder.  
It shall be the sole responsibility of the bidder to inform BGL in case the bidder is under any liquidation court receivership or similar proceedings on due date of submission of bid and during the course of finalization of the tender. Concealment of the facts shall tantamount to misrepresentation of facts and shall lead to action against such Bidders as per clause no.38 of ITB.
- 2.4 Bidder shall not be affiliated with a firm or entity:
- (i) that has provided consulting services related to the work to the Employer during the preparatory stages of the work or of the project of which the works/services forms a part of or
  - (ii) that has been hired (proposed to be hired) by the Employer as an Engineer/Consultant for the contract.
- 2.5 Neither the firm/entity appointed as the Project Management Consultant (PMC) for a contract nor its affiliates/ JV'S/ Subsidiaries shall be allowed to participate in the tendering process unless it is the sole Licensor/Licensor nominated agent/ vendor.
- 2.6 Pursuant to qualification criteria set forth in the bidding document, the Bidder shall furnish all necessary supporting documentary evidence to establish Bidder's claim of meeting qualification criteria.
- 2.7 **Power of Attorney:**  
Power of Attorney (POA) to be issued by the bidder in favour of the authorised employee(s), in respect of the particular tender, for purpose of signing the documents including bid, all subsequent communications, agreements, documents etc. pertaining to the tender and act and take any and all decision on behalf of the bidder(including Consortium). Any consequence resulting due to such signing shall be binding on the Bidder (including Consortium).  
The Power of Attorney shall be issued as per the constitution of the bidder as below:
- a) **In case of Proprietorship:** by Proprietor
  - b) **In case of Partnership:** by all Partners or Managing Partner
  - c) **In case of Limited Liability Partnership:** by any bidder's employee authorized in terms of Deed of LLP
  - d) **In case of Public / Limited Company:** PoA in favour of authorized employee(s) by Board of Directors through Board Resolution or by the designated officer authorized by Board to do so. Such Board Resolution should be duly countersigned by Company Secretary / MD / CMD / CEO.

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The Power of Attorney should be valid till award of contract / order to successful bidder.

- 2.7 In case of change of constitution of bidder after submission of bid, the same shall be informed by the bidder to BGL promptly. Failure to same shall be considered as misrepresentation by the bidder.

**3 BIDS FROM "JOINT VENTURE"/"CONSORTIUM" - NOT APPLICABLE.**

**4 ONE BID PER BIDDER**

- 4.1 A Bidder shall submit only 'one [01] Bid' in the same Bidding Process either as single entity or as a member of any consortium (wherever consortium bid is allowed). A Bidder who submits or participates in more than 'one [01] Bid' will cause all the proposals in which the Bidder has participated to be disqualified.
- 4.2 A bidder shall not have conflict of interest with other bidders. Such conflict of interest can lead to anti-competitive practices. The bidder found to have a conflict of interest shall be disqualified. A bidder shall be considered to have a conflict of interest with one or more bidders in this bidding process, if:
- a) they have controlling partner (s) in common; or
  - b) they receive or have received any direct or indirect subsidy/ financial stake from any of them; or
  - c) they have the same legal representative/authorized signatory/agent for purposes of this bid; or
  - d) they have relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another Bidder; or
  - e) Bidder participates in more than one bid in bidding process. Participation by a Bidder in more than one Bid will result in the disqualification of all bids in which the parties are involved. However, this does not limit the inclusion of the components/ sub-assembly/ Assemblies from one bidding manufacturer in more than one bid.
  - f) a Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the contract that is the subject of the Bid;
  - g) In case of a holding company having more than one independently manufacturing units, or more than one unit having common business ownership/management, only one unit should quote. Similar restrictions would apply to closely related sister companies. Bidders must proactively declare such sister/ common business/ management units in same/ similar line of business.

Bidders are required to submit a confirmation for no conflict of interest with other bidders in agreed Form and Formats Failure to comply this clause during tendering process will disqualify all such bidders from process of evaluation of bids.

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- 4.3 Alternative Bids shall not be considered.
- 4.4 The provision mentioned at sl. no. (4.1) and (4.2) shall not be applicable wherein bidders are quoting for different Items/Sections/Parts/Groups/SOR items of the same tender which specifies evaluation on Items/Sections/Parts/Groups/SOR items basis.

## **5 COST OF BIDDING**

### **5.1 COST OF BIDDING**

The Bidder shall bear all costs associated with the preparation and submission of the Bid including but not limited to Documentation Charges, Bank charges, all courier charges, translation charges, authentication charges and any associated charges including taxes & duties thereon. Further, BGL will in no case, be responsible or liable for these costs, regardless of the outcome of the bidding process.

### **6.0 SITE VISIT**

- 6.1 The Bidder is advised to visit and examine the site of works and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the Bid and entering into a Contract for the required job. The costs of visiting the site shall be borne by the Bidder.
- 6.2 The Bidder or any of its personnel or agents shall be granted permission by the Employer to enter upon its premises and land for the purpose of such visits, but only upon the express conditions that the Bidder, its personnel and agents will release and indemnify the Employer and its personnel, agents from and against all liabilities in respect thereof, and will be responsible for death or injury, loss or damage to property, and any other loss, damage, costs, and expenses incurred as a result of inspection.
- 6.3 The Bidder shall not be entitled to hold any claim against BGL for non-compliance due to lack of any kind of pre-requisite information as it is the sole responsibility of the Bidder to obtain all the necessary information with regard to site, surrounding, working conditions, weather etc. on its own before submission of the bid.

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**[B] – BIDDING DOCUMENTS**

**7 CONTENTS OF BIDDING DOCUMENTS**

7.1 The contents of Bidding Documents / Tender Documents are those stated below, and should be read in conjunction with any 'Addendum / Corrigendum' issued in accordance with "ITB: Clause-9":

- Section-I : Invitation for BID [IFB]
- Section-II : BID EVALUATION CRITERIA [BEC] & Evaluation methodology
- Section-III :Instructions to Bidders [ITB]  
Annexure  
Forms & Format
- Section-IV : Agree Terms and Conditions
- Section-V : Forms & Format
- Section-VI : General Conditions of Contract [GCC]
- Section-VII: Special Condition of Contract
- Section-VIII: Scope of Work
- Section-IX: Schedule of Rates

\*Request for Quotation', wherever applicable, shall also form part of the Bidding document.

7.2 The Bidder is expected to examine all instructions, forms, terms & conditions in the Bidding Documents. The "Request for Quotation [RFQ] & Invitation for Bid (IFB)" together with all its attachments thereto, shall be considered to be read, understood and accepted by the Bidders. Failure to furnish all information required by the Bidding Documents or submission of a Bid not substantially responsive to the Bidding Documents in every respect will be at Bidder's risk and may result in the rejection of his Bid.

**8 CLARIFICATION OF BIDDING DOCUMENTS**

8.1 A prospective Bidder requiring any clarification(s) of the Bidding Documents may notify BGL in writing or by fax or email at BGL's mailing address indicated in the BIDS no later than 02 (two) days prior to pre-bid meeting (in cases where pre-bid meeting is scheduled) or 05 (five) days prior to the due date of submission of bid in cases where pre-bid meeting is not held. BGL reserves the right to ignore the bidders request for clarification if received after the aforesaid period. BGL may respond in writing to the request for clarification. BGL's response including an explanation of the query, but without identifying the source of the query will be uploaded on BGL's tendering web site [<http://www.bglgas.com/> communicated to prospective bidders by e-mail/ fax.

8.2 Any clarification or information required by the Bidder but same not received by the Employer at clause 8.1 (refer BIDS for address) above is liable to be considered as "no clarification / information required".

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## **9 AMENDMENT OF BIDDING DOCUMENTS**

- 9.1 At any time prior to the 'Bid Due Date', Owner may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the Bidding Documents by addenda/ corrigendum.
- 9.2 Any addendum/ corrigendum thus issued shall be integral part of the Tender Document and shall be hosted on the websites as provided at clause no. 2.0 (G) of IFB /communicated to prospective bidders by e-mail/ fax. Bidders have to take into account all such addendum/ corrigendum before submitting their Bid.
- 9.3 The Employer, if consider necessary, may extend the date of submissions of Bid in order to allow the Bidders a reasonable time to furnish their most competitive bid taking into account the amendment issued thereof.

### **[C] – PREPARATION OF BIDS**

## **10 LANGUAGE OF BID:**

The bid prepared by the Bidder and all correspondence, drawing(s), document(s), certificate(s) etc. relating to the Bid exchanged by Bidder and BGL shall be written in English language only. In case a document, certificate, printed literature etc. furnished by the Bidder in in a language other than English, the same should be accompanied by an English translation duly authenticated by the Chamber of Commerce of Bidders Country, in which case, for the purpose of interpretation of the Bid, the English translation shall govern.

## **11. DOCUMENTS COMPRISING THE BID**

The bid prepared by the bidder shall comprise of the following components:

### **11.1. Techno-Commercial Un Price Bids**

- 11.1.1 Techno-commercial / Un Priced bid and shall upload /contain the following components.
- Covering letter.
  - Bidder's General Details/information
  - Power of Attorney in favour of person (s) signing the bid that such person (s) is/are authorised to sign the bid on behalf of the bidder and any consequence resulting due to such signing shall be binding on the bidder.
  - Bid Form as per F-2
  - Bid security/EMD in accordance with Clause 16 of "ITB" shall be furnished in Original in the form of Banker's Cheque /Bank Draft payable to Bhagyanagar Gas Limited at Hyderabad or Bank Guarantee as per FORM F-3.
  - Duly attested documents in accordance with the "BID EVALUATION CRITERIA [BEC]" establishing the qualification.
  - Details of similar work done and Specific experience during past seven years.
  - Annual Turnover details as called for in qualifying requirements.

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- i) Compliance to Bid Requirement/Exception Deviation Statement as per Proposal FORM F-6.
- j) Details of PF Registration No as per the proposal FORM F-9.
- k) Reply to Commercial Questionnaire/Agreed Terms & Conditions **Section-4**.
- l) Letter of authority in original physical form in favour of any one of bidder's executive having authority to attend the un-priced & Priced bid opening on specified dates and venue as per FORM F-8(i, ii).
- m) Copies of documents defining constitution or legal status, place of registration and principal place of business of the Company.
- n) Bidder's declaration that they are not under any liquidation, court receiver ship or similar proceedings.
- o) Undertaking as per Form-1 to Annexure-C by MSE bidders and Bidders seeking preference under Policy for purchase preference linked with Local Content (PPP-MII), if applicable.
- p) Undertaking as per *Form-1 to Annexure-A* and Certification from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of other than companies) as per *Form-2 to Annexure-A* (**Applicable for all bidders including MSEs bidder irrespective of seeking purchase preference or not**). [to be submitted only if Policy for purchase preference linked with Local Content (PPP-MII) is applicable]
- q) Undertaking as per *Form-1 to Annexure-B* regarding Provisions for Procurement from a Bidder which shares a land border with India
- r) All other forms and Formats including Annexures
- s) Technical details/documents as per bidding document.
- t) Any other information/ details required as per requirement of bidding documents.

**Note:** All the pages of the Bid must be signed by the "Authorized Signatory" of the Bidder.

Further, Bidders must submit the original " EMD, Power of Attorney, Integrity Pact (wherever applicable) and any other documents specified in the Tender Document to the address mentioned in IFB, in a sealed envelope, superscribing the details of Tender Document (i.e. tender number & tender for) within 7 days from the date of un-priced bid opening.

Bidders are required to submit the EMD in original by Due Date and Time of Bid Submission or upload a scanned copy of the same in the Part-I of the Bid. If the Bidder is unable to submit EMD in original by Due Date and Time of Bid Submission, the Bidder is required to upload a scanned copy of the EMD in Part-I of Bid, provided the original EMD, copy of which has been uploaded, is received within 7 days from the Due Date of Bid Opening, failing which the Bid will be rejected irrespective of their status/ranking in tendering process and notwithstanding the fact that a copy of EMD was earlier uploaded by the Bidder

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**11.2. Priced bids –**

PRICE BID of the Bid shall be uploaded under tab “Step 3: SOR Attachment” of .....” page in the BGL GeM Portal i.e., <https://www.gem.gov.in/> and shall contain Price Bid only. The Prices are to be submitted strictly in the Price Schedule/ Schedule of Rate (SOR) format of the Tender Document and only under tab “Step 3: SOR Attachment” as per instructions provided in Annexure-I (Instructions for participating in e-Tender) of Tender Document and Ready Reckoner available in Bid Document and in BGL website.

Prices are to be submitted strictly as per the Schedule of Rate of the bidding documents and uploaded only in “Step 3: SOR Attachment”. Submission of prices in Unpriced bid shall lead to rejection of the bid. BGL shall not be responsible for any failure on the part of the bidder to follow the instructions.

- i. The Prices are to be submitted strictly as per the Schedule of Rate of the bidding documents. BGL shall not be responsible for any failure on the part of the bidder to follow the instructions.
- ii. Bidders are advised NOT to mention Rebate/Discount separately, either in the SOR format or anywhere else in the offer. In case Bidder(s) intend to offer any Rebate/Discount, they should include the same in the item rate(s) itself under the “Schedule of Rates (SOR)” and indicate the discounted unit rate(s) only.
- iii. If any unconditional rebate has been offered in the quoted rate the same shall be considered in arriving at evaluated price. However no cognizance shall be taken for any conditional discount for the purpose of evaluation of the bids.
- iv. If any bidder offers suo-moto discount after opening of un-priced bids but before opening of price bids, such reduction / discounts shall not be considered for evaluation. However, if the bidder happens to be the lowest evaluated bidder without considering such discount then the benefit of discount will be availed at the time of award of work. In the event as a result of techno-commercial discussions or pursuant to seeking clarifications / confirmations from bidders, while evaluating the un-priced part of the bid, any of the bidders submits a sealed envelope stating that it contains revised prices; such bidder(s) will be requested to withdraw the revised prices failing which the bid will not be considered for further evaluation.
- v. In the event as a result of techno-commercial discussions or pursuant to seeking clarifications / confirmations from bidders, while evaluating the un-priced part of the bid, any of the bidders submits a sealed envelope stating that it contains revised prices, in case of manual tendering; such bidder(s) will be requested to withdraw the revised prices failing which the bid will not be considered for further evaluation.
- vi. In case any bidder does not quote for any item(s) of “Schedule of Rates” and the estimated price impact is more than 10% of the quoted price, then the bid will be rejected. If such price impact of unquoted items is 10% or less of his quoted price, then the unquoted item(s)

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shall be loaded highest of the price quoted by the other bidders . If such bidder happens to be lowest evaluated bidder, price of unquoted items shall be considered as included in the quoted bid price.

## **12 SCHEDULE OF RATES / BID PRICES**

If required, the break-up of various components as included in the quoted price shall be obtained from successful bidders before placement of order/contract on them.

The material is required to be delivered through a registered common carrier as per section 3 of Carriage by the Road Act 2007.

Also, BGL reserves the right to transport the material with it's own transporter.

12.2 As stated elsewhere in tender, bidder is required to quote all components. In case, it is found that some of components are not considered, the same shall be considered inclusive in total quoted price for evaluation and ordering. No confirmation from the bidder shall be sought in this regard and no representation from the bidder shall be entertained in this regard.

12.3 The delivery basis of the goods is mentioned in BDS. If the Goods are dispatched through dedicated full truck load, date of receipt of Goods by Purchaser at its designated site(s) /Store shall be considered as the date of delivery. Similarly, in case of break-bulk dispatches, the date of LR/GR shall be considered as date of delivery. The delivery terms [other than those mentioned in BDS] shall be interpreted as per INCOTERMS®2020 or its latest version.

12.4 All duties, taxes and other levies (if any) payable by the Seller under the Contract or for any other cause, including GST (CGST & SGST/UTGST or IGST) on finished product & on the incidental services, shall be included in the rates / prices and the total bid-price submitted by the Bidder. Bidders are required to quote the prices after carefully reading the provisions mentioned in tender document including SCC, GCC, Scope of Work, etc.

12.5 Prices quoted by the Bidder, shall remain firm and fixed and valid till completion of the Contract and will not be subject to variation on any account, whatsoever; unless any price escalation/variation is allowed elsewhere in the Tender Document.

## **13 GST (CGST & SGST/UTGST or IGST)**

13.1 Bidders are required to mention the GST Registration No. in bids wherever GST (CGST & SGST/UTGST or IGST) is applicable.

13.2 Quoted prices should be inclusive of all taxes and duties, except **GST (CGST & SGST or IGST or UTGST)**. Please note that the responsibility of payment of **GST (CGST &**

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**SGST or IGST or UTGST**) lies with the Supplier of Goods / Services only. Supplier of Goods / Services (Service Provider) providing taxable service shall issue an Invoice/ Bill, as the case may be as per rules/ regulation of GST. Further, returns and details required to be filled under GST laws & rules should be timely filed by Supplier of Goods / Services (Service Provider) with requisite details.

Payments to Service Provider for claiming **GST (CGST & SGST/UTGST or IGST)** amount will be made provided the above formalities are fulfilled. Further, BGL may seek copies of challan and certificate from Chartered Accountant for deposit of **GST (CGST & SGST/UTGST or IGST)** collected from Owner.

13.3 In case CBIC (Central Board of Indirect Taxes and Customs)/ any tax authority / any equivalent government agency brings to the notice of BGL that the Service Provider has not remitted the amount towards **GST (CGST & SGST/UTGST or IGST)** collected from BGL to the government exchequer, then, that Contactor shall be put under Holiday list of BGL for period of six months after following the due procedure. This action will be in addition to the right of recovery of financial implication arising on BGL.

13.4 In case of statutory variation in **GST (CGST & SGST/UTGST or IGST)**, other than due to change in turnover, payable on the contract value during contract period, the Supplier of Goods / Services (Service Provider) shall submit a copy of the 'Government Notification' to evidence the rate as applicable on the Bid due date and on the date of revision.

Beyond the contract period, in case BGL is not entitled for input tax credit of **GST (CGST & SGST/UTGST or IGST)**, then any increase in the rate of **GST (CGST & SGST/UTGST or IGST)** beyond the contractual delivery period shall be to Service Provider's account whereas any decrease in the rate **GST (CGST & SGST/UTGST or IGST)** shall be passed on to the Owner.

Beyond the contract period, in case BGL is entitled for input tax credit of **GST (CGST & SGST/UTGST or IGST)**, then statutory variation in applicable **GST (CGST & SGST/UTGST or IGST)** on supply and on incidental services, shall be to BGL's account.

Claim for payment of **GST (CGST & SGST/UTGST or IGST)**/ Statutory variation, should be raised within two [02] months from the date of issue of 'Government Notification' for payment of differential (in %) **GST (CGST & SGST/UTGST or IGST)**, otherwise claim in respect of above shall not be entertained for payment of arrears.

The base date for the purpose of applying statutory variation shall be the Bid Due Date.

13.5 Where the BGL is entitled to avail the input tax credit of **GST (CGST & SGST/UTGST or IGST)**:-

13.5.1 Owner/BGL will reimburse the **GST (CGST & SGST/UTGST or IGST)** to the Supplier of Goods / Services (Service Provider) at actuals against submission of Invoices as per format specified in rules/ regulation of GST to enable Owner/BGL to claim input tax credit of **GST (CGST & SGST/UTGST or IGST)** paid. In case of any variation in the executed

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quantities, the amount on which the **GST (CGST & SGST/UTGST or IGST)** is applicable shall be modified in same proportion. Returns and details required to be filled under GST laws & rules should be timely filed by supplier with requisite details.

13.5.2 The input tax credit of **GST (CGST & SGST/UTGST or IGST)** quoted shall be considered for evaluation of bids, as per evaluation criteria of tender document.

13.6 Where the BGL is not entitled to avail/take the full input tax credit of **GST (CGST & SGST/UTGST or IGST)**:-

13.6.1 Owner/BGL will reimburse **GST (CGST & SGST/UTGST or IGST)** to the Supplier of Goods / Services (Service Provider) at actuals against submission of Invoices as per format specified in rules/ regulation of GST subject to the ceiling amount of **GST (CGST & SGST/UTGST or IGST)** as quoted by the bidder, subject to any statutory variations, except variations arising due to change in turnover. In case of any variation in the executed quantities (If directed and/or certified by the Engineer-In-Charge) the ceiling amount on which **GST (CGST & SGST/UTGST or IGST)** is applicable will be modified on pro-rata basis.

13.6.2 The bids will be evaluated based on total price including applicable **GST (CGST & SGST/UTGST or IGST)**.

13.7 BGL will prefer to deal with registered supplier of goods/ services under GST. Therefore, bidders are requested to get themselves registered under GST, if not registered yet.

However, in case any unregistered bidder is submitting their bid, their prices will be loaded with applicable **GST (CGST & SGST/UTGST or IGST)** while evaluation of bid (if applicable as per Govt. Act/ Law in vogue). Where BGL is entitled for input credit of **GST (CGST & SGST/UTGST or IGST)**, the same will be considered for evaluation of bid as per evaluation methodology of tender document.

13.8 In case BGL is required to pay entire/certain portion of applicable **GST (CGST & SGST/UTGST or IGST)** and remaining portion, if any, is to be deposited by Bidder directly as per **GST (CGST & SGST/UTGST or IGST)** laws, entire applicable rate/amount of **GST (CGST & SGST/UTGST or IGST)** to be indicated by bidder in the SOR.

Where BGL has the obligation to discharge **GST (CGST & SGST/UTGST or IGST)** liability under reverse charge mechanism and BGL has paid or is /liable to pay **GST (CGST & SGST/UTGST or IGST)** to the Government on which interest or penalties becomes payable as per GST laws for any reason which is not attributable to BGL or ITC with respect to such payments is not available to BGL for any reason which is not attributable to BGL, then BGL shall be entitled to deduct/ setoff / recover such amounts against any amounts paid or payable by BGL to Contractor / Supplier /Service Provider.

13.9 Contractor/ Service Provider shall ensure timely submission of invoice(s) as per rules/ regulations of GST with all required supporting document(s) within a period specified in (Sign & Seal of Bidder)

Contracts/ LOA to enable BGL to avail input tax credit. Further, returns and details required to be filled under GST laws & rules should be timely filed by supplier with requisite details.

If input tax credit with respect to **GST (CGST & SGST/UTGST or IGST)** is not available to BGL for any reason which is not attributable to BGL, then BGL shall not be obligated or liable to pay or reimburse **GST (CGST & SGST/UTGST or IGST)** charged in the invoice(s) and shall be entitled to / deduct/ setoff /recover the such **GST (CGST & SGST/UTGST or IGST UTGST)** there upon together with all penalties and interest if any, against any amounts paid or payable by BGL to Supplier of Goods / Services.

**13.10 Anti-profiteering clause**

As per Clause 171 of GST Act it is mandatory to pass on the benefit due to reduction in rate of tax or from input tax credit to the consumer by way of commensurate reduction in prices. The Supplier of Goods / Services may note the above and quote their prices accordingly.

13.11 In case the GST rating of vendor on the GST portal / Govt. official website is negative / black listed, then the bids may be rejected by BGL. Further, in case rating of bidder is negative / black listed after award of work for supply of goods / services, then BGL shall not be obligated or liable to pay or reimburse GST to such vendor and shall also be entitled to deduct / recover such GST along with all penalties / interest, if any, incurred by BGL.

13.12 GST, as included by the bidder in Price bid/Schedule of Rates, shall be deemed as final and binding for the purpose of bid evaluation (applicable for tenders where bidder quotes the GST rates). In case a bidder enters “zero/blank” GST or an erroneous GST, the bid evaluation for finalizing the L1 bidder will be done considering the quoted GST rate. No request for change in GST will be entertained after submission of bids.

In cases where the successful bidder quotes a wrong GST rate, for releasing the order, the following methodology will be followed:

- In case the actual GST rate applicable is lower than the quoted GST rate, the actual GST rate will be added to the quoted basic prices. The final cash outflow will be based on actual GST rate.
- In case the actual GST rate applicable is more than the quoted GST rate, the basic prices quoted will be reduced proportionately, keeping the final cash outflow the same as the overall quoted amount.

Based on the Total Cash Outflow calculated as above, BGL shall place orders.

13.13 Wherever TDS under GST Laws has been deducted from the invoices raised / payments made to the Service Provider, as per the provisions of the GST law / Rules, Service Provider should accept the corresponding GST-TDS amount populated in the relevant screen on GST common portal ([www.gst.gov.in](http://www.gst.gov.in)). Further, Service Provider should also download the GST TDS certificate from GST

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common portal (reference path: Services > User Services > View/Download Certificates option).

**13.14 Provision w.r.t. E- Invoicing requirement as per GST laws**

**(a) Provision to be included in tender for Procurement of Goods/ Works/ Services/ Consultancy Services [under clause relating to “Taxes & Duties” / “GST (CGST & SGST / UTGST or IGST” of Model ITBs]**

Supplier / Service Provider / Contractor/ Consultant (s) who is required to comply with the requirements of E-invoice for B2B transactions as per the requirement of GST Law will ensure the compliance of requirement of E-Invoicing under GST law. If the invoice issued without following this process, such invoice cannot be processed for payment by M/s.Bhagyanagar Gas Ltd. as no ITC (Input Tax Credit) is allowed on such invoices. Therefore, all the payments to such supplier / service provider / contractor/ consultant who is liable to comply with e-invoice as per GST Laws shall be made against the proper e-invoice(s) only. Further, returns and details required to be filled under GST laws & rules against such e-invoices should be timely filed by Supplier of Goods / Services with requisite details.

If input tax credit is not available to M/s. Bhagyanagar Gas Ltd. for any reason attributable to supplier / service provider / contractor/ consultant (both for E-invoicing cases and non E-invoicing cases), then BHAGYANAGAR GAS LTD. shall not be obligated or liable to pay or reimburse GST (CGST & SGST/UTGST or IGST) claimed in the invoice(s) and shall be entitled to deduct / set off / recover such GST amount (CGST & SGST/UTGST or IGST) or Input Tax Credit amount together with penalties and interest, if any, by adjusting against any amounts paid or becomes payable in future to the supplier / service provider / contractor/ consultant under this contract or under any other contract.

**To ensure compliance, undertaking in requisite format is to be submitted by Supplier/Contractor/ Service Provider/Consultant as per format enclosed at Form F-18 along with documents for release of payment.**

**13.15 New Taxes & duties:** Any new taxes & duties, if imposed by the State/ Central Govt. of India after the due date of bid submission but before the Contractual Completion Date, shall be reimbursed to the Service Provider on submission of copy of notification(s) issued from State/ Central Govt. Authorities along with documentary evidence for proof of payment of such taxes & duties, but only after ascertaining it's applicability with respect to the Contract.

13.16 Full payment including GST will be released at the time of processing of invoice for payment, where the GST amount reflects in Form GSTR-2A of BGL. However, in case where the GST amount doesn't reflect in Form GSTR-2A of BGL, the amount of GST will be released after reflection of GST amount of corresponding invoice in Form GSTR-2A of BGL.

(Sign & Seal of Bidder)

**14 BID CURRENCIES:**

Bidders must submit bid in Indian Rupees only.

**15 BID VALIDITY**

15.1 Bids shall be kept valid for period specified in BDS from the final Due date of submission of bid'. A Bid valid for a shorter period may be rejected by BGL as 'non-responsive'.

15.2 In exceptional circumstances, prior to expiry of the original 'Bid Validity Period', the Employer may request the Bidders to extend the 'Period of Bid Validity' for a specified additional period. The request and the responses thereto shall be made in writing or by fax/email. A Bidder may refuse the request without forfeiture of his EMD. A Bidder agreeing to the request will not be required or permitted to modify his Bid, but will be required to extend the validity of its EMD for the period of the extension and in accordance with "ITB: Clause-16" in all respects.

**16 EARNEST MONEY DEPOSIT –**

16.1 Bid must be accompanied with earnest money (**i.e Earnest Money Deposit (EMD)** also known as **Bid Security**) in the form of **‘Demand Draft’ / ‘Banker’s Cheque’ / ‘Insurance Surety Bond’ / ‘Fixed Deposit Receipt’** [in favour of **Bhagyanagar Gas Limited** payable at place mentioned in **BDS**] or **‘Bank Guarantee (including e-bank guarantee)’** strictly as per the format given in form F2B of the **Tender Document**. Bidder shall ensure that EMD submitted in the form of **‘Bank Guarantee’** should have a validity of at least **‘two [02] months’** beyond the validity of the Bid. EMD submitted in the form of **‘Demand Draft’** or **‘Banker’s Cheque’** should be valid for three months.

Bid not accompanied with EMD, or EMD not in requisite format shall be liable for rejection. The EMD shall be submitted in Indian Rupees only.

16.2 BGL shall not be liable to pay any documentation charges, Bank charges, commission, interest etc. on the amount of EMD. In case EMD is in the form of a **‘Bank Guarantee’** (including e-bank guarantee), the same shall be from any Indian scheduled Bank (excluding Co-operative banks and Regional Rural bank) or a branch of an International Bank situated in India and registered with **‘Reserve Bank of India’** as Scheduled Foreign Bank. However, in case of **‘Bank Guarantee’** from Banks other than the Nationalized Indian Banks, the Bank must be commercial Bank having net worth in excess of Rs. 100 Crores [Rupees One Hundred Crores] and a declaration to this effect should be made by such commercial Bank either in the **‘Bank Guarantee’** itself or separately on its letterhead. Purchaser will verify the BG from issuing bank.

16.3 Any Bid not secured in accordance with **“ITB: Clause-16.1, 16.2 & Clause-16.3”** may be rejected by BGL as non-responsive.

16.4 Unsuccessful Bidder’s EMD will be discharged/ returned as promptly as possible, but not later than **‘thirty [30] days’** after finalization of tendering process.

(Sign & Seal of Bidder)

- 16.5 The successful Bidder's EMD will be discharged upon the Bidder's acknowledging the 'Award' and signing the 'Agreement' (if applicable) and furnishing the 'Contract Performance Security (CPS)/ Security Deposit' pursuant to clause no. 37 of ITB.
- 16.6 Notwithstanding anything contained herein, the EMD may also be forfeited in any of the following cases:
- (a) If a Bidder withdraws his Bid during the 'Bid Validity' period
  - (b) If a Bidder has indulged in corrupt/fraudulent /collusive/coercive practice
  - (c) If the Bidder modifies Bid during the period of bid validity (after Due Date and Time for Bid Submission).
  - (d) Violates any other condition, mentioned elsewhere in the Tender Document, which may lead to forfeiture of EMD.
  - (e) In the case of a successful Bidder, if the Bidder fails to:
    - (i) acknowledge receipt of the "Notification of Award" / Fax of Acceptance[FOA]",
    - (ii) furnish "Contract Performance Security / Security Deposit", in accordance with "ITB: Clause-37"
    - (iii) accept 'arithmetical corrections' as per provision of the clause 30 of ITB.
- 16.7 In case EMD is in the form of 'Bank Guarantee' the same must indicate the Tender Document No. and the name of Tender Document for which the Bidder is quoting. This is essential to have proper correlation at a later date.
- 16.8 MSEs (Micro & Small Enterprises) are exempted from submission of EMD in accordance with the provisions of PPP-2012 and Clause 39 of ITB. However, Traders/Dealers/ Distributors /Stockiest /Wholesaler are not entitled for exemption of EMD. The Government Departments/PSUs are also exempted from the payment of EMD. Further, Startups are also exempted from the payment of EMD.

In addition to above, following categories of Sellers/Service Providers are also exempted from furnishing Earnest Money / Bid Bond:

- (i) Micro and Small Enterprises who are manufacturer of the Primary Product Category or Service Provider of the Primary Service Category and give specific confirmation to this effect at the time of bid submission and whose credentials are validated online through Udyam Registration / Udyog Aadhaar (as validated by Government from time to time) and through uploaded supporting documents.
- (ii) Start-ups as recognized by Department of Industrial Policy and Promotion (DIPP).
- (iii) KVIC, ACASH, WDO, Coir Board, TRIFED and Kendriya Bhandar.

(Sign & Seal of Bidder)

- (iv) Sellers who have got their credentials verified through the process of Vendor Assessment by Vendor Assessment Agencies for the Primary Product / Primary Service for which Bid / RA has been invited.
- (v) Sellers/ Service Provider having annual turnover of INR 500 Crore or more.
- (vi) Sellers / Service Providers holding BIS License for the Primary Product Category whose credentials are validated through BIS database and through uploaded supporting documents.
- (vii) Central/ State PSUs.
- (viii) Seller / Service Provider registered with designated Agency / Authority as specified in the bid document by the Buyer – such bidder shall have to upload scanned copy of relevant registration document in place of Bid Security document while bidding.

**Bidders are required to submit relevant document for exemption from furnishing Earnest Money / Bid Bond**

- 16.9 In addition to existing specified form (i.e. Demand Draft (DD)/ Banker's Cheque/ Bank Guarantee) mentioned in tender documents for submission of EMD/Bid Bond, the bidder can also submit the EMD through online banking transaction i.e. IMPS/NEFT/RTGS etc. While remitting, the bidder must indicate EMD and tender no. under remarks. Bidders shall be required to submit/ upload the successful transaction details along-with their bid/e-bid in addition to forwarding the details to dealing officer through email/letter with tender reference number immediately after remittance of EMD.

In absence of submitting/ uploading the remittance details, the bids are likely to be considered as bid not accompanied with EMD. Further, in case of the above online transaction, submission of EMD in original is not applicable.

- 16.10 In case of forfeiture of EMD/ Bid Security, the forfeited amount will be considered inclusive of tax and tax invoice will be issued by BGL. The forfeiture amount will be subject to final decision of BGL based on other terms and conditions of order.
- 16.11 EMD/Bid Bond will not be accepted in case the same has reference of 'remitter'/'financer' other than bidder on the aforementioned financial instrument of EMD/ Bid Bond submitted by the bidder and bid of such bidder will be summarily rejected.

**16A DECLARATION FOR BID SECURITY**

Bidder to whom exemption is allowed as per Clause no. 16.8 above are required to submit Declaration for Bid Security as per proforma at Form F-2A.

(Sign & Seal of Bidder)

**17 PRE-BID MEETING: through online mode / video conferencing:**

- 17.1 The Bidder(s) or his designated representative are invited to attend a "Pre-Bid Meeting" which will be held at address specified in IFB. It is expected that a bidder shall not depute more than 02 representatives for the meeting.
- 17.2 In case of pre-bid meeting through video conferencing/Online Mode, Link shall be sent to all the interested bidders by the purchaser. Instructions to bidders for Pre-bid meeting through video conferencing/ Online Mode: All bidders intending to attend pre-bid meeting must send their interest through email (at least 2 hours prior to the scheduled time of pre-bid meeting) along with details of payment of e-tender processing fee to the purchaser. E-mail received from bidders within specified timeline shall be invited through email to attend the meeting.
- 17.3 Purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage and give hands-on e-tendering. The Bidder must submit their queries / clarifications to BGL as in the format in bid document, as mentioned at clause no. 8.0 of ITB
- 17.4 Text of the questions raised and the responses given, together with any responses prepared after the meeting, will be uploaded on BGL e-tendering website against the Tender. Any modification of the Contents of Bidding Documents listed in "ITB: Clause-7.1", that may become necessary as a result of the Pre-Bid Meeting shall be made by the Employer exclusively through the issue of an Addendum / Corrigendum pursuant to "ITB: Clause-9", and not through the minutes of the Pre-Bid Meeting.
- 17.5 Non-attendance of the Pre-Bid Meeting will not be a cause for disqualification of Bidder.

**18 FORMAT AND SIGNING OF BID**

- 18.1 The original and all copies of the Bid shall be typed or written in indelible ink [in the case of copies, photocopies are also acceptable] and shall be signed by a person or persons duly authorized to sign on behalf of the Bidder (as per POA). The name and position held by each person signing, must be typed or printed below the signature. All pages of the Bid except for unamended printed literature where entry(s) or amendment(s) have been made shall be initialed by the person or persons signing the Bid.
- 18.2 The Bid shall contain no alterations, omissions, or additions, unless such corrections are initialed by the person or persons signing the Bid.
- 18.3 In case of e-tendering, digitally signed documents to be uploaded as detailed in addendum to ITB.

(Sign & Seal of Bidder)

**19 ZERO DEVIATION AND REJECTION CRITERIA**

19.1 **ZERO DEVIATION:** Deviation to terms and conditions of " Tender Document " may lead to rejection of bid. BGL will accept bids based on terms & conditions of " Tender Document" only. Bidder may note BGL will determine the substantial responsiveness of each bid to the Bidding Documents pursuant to provision contained in clause 29 of ITB. For purpose of this, a substantially responsive bid is one which conforms to all terms and conditions of the Bidding Documents without deviations or reservations. BGL's determination of a bid's responsiveness is based on the content of the bid itself without recourse to extrinsic evidence. BGL reserves the right to raise technical and/or commercial query(s), if required, may be raised on the bidder(s). The response(s) to the same shall be in writing, and no change in the price(s) or substance of the bids shall be sought, offered or permitted. The substance of the bid includes but not limited to prices, completion, scope, technical specifications, etc. Bidders are requested to not to take any deviation/exception to the terms and conditions laid down in this "Tender Documents", and submit all requisite documents as mentioned in this "Tender Documents", failing which their offer will be liable for rejection. If a bidder does not reply to the queries in the permitted time frame then its bid shall be evaluated based on the documents available in the bid.

19.2 **REJECTION CRITERIA:** Notwithstanding the above, deviation to the following clauses of Tender document shall lead to summarily rejection of Bid:

- (a) Firm Price
- (b) Earnest Money Deposit / Bid Security (if applicable)
- (c) Specifications
- (d) Schedule of Rates / Price Schedule / Price Basis
- (e) Delivery Period / Period of Contract/ Completion schedule
- (f) Period of Validity of Bid
- (g) Price Reduction Schedule (if applicable)
- (h) Contract Performance Security/ Security Deposit (if applicable)
- (i) Warranty/ Guarantee (if applicable)
- (j) Arbitration / Resolution of Dispute/Jurisdiction of Court
- (k) Force Majeure & Applicable Laws
- (l) Integrity Pact, (if Applicable)
- (m) Any other condition specifically mentioned in the tender document elsewhere that non-compliance of the clause lead to rejection of bid

Note: Further, it is once again reminded not to mention any condition in the Bid which is contradictory to the terms and conditions of Tender document.

**20 E-PAYMENT: Payments may be made through electronic modes via NEFT/RTGS & Cheques etc.**

(Sign & Seal of Bidder)

**ID] – SUBMISSION OF BIDS**

**21 SUBMISSION, SEALING AND MARKING OF BIDS**

- 21.1 In case of e-tendering, bids shall be submitted through e-tender mode in the manner specified elsewhere in tender document. **No Manual/ Hard Copy (Original) offer shall be acceptable.**
- 21.2 However, Bidders are required to submit original Bid Security/ EMD, tender fee (as applicable), Power of Attorney and any other documents (as specified in the tender) at the address specified in Bid Document
- 21.3 All the bids shall be addressed to the owner at address specified in IFB.
- 21.4 Bids submitted under the name of AGENT/ CONSULTANT/ REPRESENTATIVE/ RETAINER/ ASSOCIATE etc. on behalf of a bidder/ affiliate shall not be accepted.

**22 DEADLINE FOR SUBMISSION OF BIDS**

- 22.1 In case of e-bidding, the bids must be submitted through e-tender mode not later than the date and time specified in the tender documents.
- 22.3 BGL may, in exceptional circumstances and at its discretion, extend the deadline for submission of Bids (clause 9 of ITB refers). In which case all rights and obligations of BGL and the Bidders, previously subject to the original deadline will thereafter be subject to the deadline as extended. Notice for extension of due date of submission of bid will be uploaded on BGL's website/ communicated to the bidders.

**23 LATE BIDS**

- 23.1 Any bids received after the notified date and time of closing of tenders will be treated as late bids.
- 23.2 **In case of e-tendering, e-tendering system of BGL shall close immediately after the due date for submission of bid and no bids can be submitted thereafter. Bidders must ensure submission of bids within the Due Date and Time of Bid Submission., e-Tendering system of BGL shall close immediately after the deadline for submission of bid and no bids can be submitted thereafter. Where the bid bond/EMD/ physical documents has been received but the bid is not submitted by the bidder in the e- tendering portal, such bid bond/ physical documents shall be returned immediately. Where the bid bond/physical documents has been received but the bid is not submitted by the bidder in the e-tendering portal, such bid bond/ physical documents shall be returned immediately.**
- 23.3 EMD /physical documents received to address other than one specifically stipulated in the Tender Document will not be considered for evaluation/opening/award if not received to the specified destination within stipulated date & time.

(Sign & Seal of Bidder)

**24 MODIFICATION AND WITHDRAWAL OF BIDS**

24.1 Modification and withdrawal of bids shall be as follows:-

**24.1.1 IN CASE OF E- TENDERING :**

24.1 Modification and withdrawal of bids shall be as follows:-

The bidder may withdraw or modify its bid after bid submission but before the due date and time for submission as per tender document.

24.2 No bid shall be modified/ withdrawn after the Due Date & Time for Bid submission.

24.3 Any withdrawal/ modification/substitution of Bid in the interval between the Due Date & Time for Bid submission and the expiration of the period of bid validity specified by the Bidder in their Bid shall result in the Bidder's forfeiture of EMD pursuant to clause 16 of ITB / invocation of action as per Bid Security declaration and rejection of Bid.

24.4 The latest Bid submitted by the Bidder before Bid Due Date & Time shall be considered for evaluation and all other Bid(s) shall be considered to be unconditionally withdrawn.

**IEI – BID OPENING AND EVALUATION**

**25 EMPLOYER'S RIGHT TO ACCEPT ANY BID AND TO REJECT ANY OR ALL BIDS**

BGL reserves the right to accept or reject any Bid, and to annul the Bidding process and reject all Bids, at any time prior to award of Contract, without thereby incurring any liability to the affected Bidder or Bidders or any obligations to inform the affected Bidder or Bidders of the ground for BGL's action. However, Bidder if so desire may seek the reason (in writing) for rejection of their Bid to which BGL shall respond quickly.

**26 BID OPENING**

26.1 ***Unpriced Bid Opening :***

BGL will open unpriced bids at the schedule date & time.

26.2 ***Priced Bid Opening:***

26.2.1 BGL will open the price bids of those bidders who meet the qualification requirement and whose bids is determined to be technically and commercially responsive.

Techno-commercial bid evaluation status will be informed to all bidders (including techno-commercially not qualified Bidders).

26.2.2 The price bids of those Bidders who were not found to be techno-commercially responsive shall not be opened.

**27 CONFIDENTIALITY**

Information relating to the examination, clarification, evaluation and comparison of Bids, and recommendations for the award of a Contract, shall not be disclosed to Bidder(s) or any other persons not officially concerned with such process.

(Sign & Seal of Bidder)

## **28 CONTACTING THE EMPLOYER**

- 28.1 From the time of bid opening to the time of contract award, no bidder shall contact BGL on any matter related to the bid, except on request and prior written permission.
- 28.2 Any effort by the bidder to influence BGL in bid evaluation, bid comparison or contract award decisions will vitiate the process and will result in the rejection of the bidder's bid and action shall be initiated as per the BGL's procedure for action in case Corrupt / Fraudulent / Collusive / Coercive practices in this regard apart from forfeiture of EMD/ Bid Security, if any.

## **29 EXAMINATION OF BIDS AND DETERMINATION OF RESPONSIVENESS**

- 29.1 The owner's determination of a bid's responsiveness is based on the content of the bid only. Prior to the detailed evaluation of Bids, the Employer will determine whether each Bid:-
- (a) Meets the "Bid Evaluation Criteria" of the Bidding Documents;
  - (b) Has been properly signed;
  - (c) Is accompanied by the required 'Earnest Money / Bid Security /Bid Security Declaration';
  - (d) Is substantially responsive to the requirements of the Bidding Documents; and
  - (e) Provides any clarification and/or substantiation that the Employer may require to determine responsiveness pursuant to "ITB: Clause-29.2"
- 29.2 A substantially responsive Bid is one which conforms to all the terms, conditions and specifications of the Bidding Documents without material deviations or reservations or omissions for this purpose employer defines the foregoing terms below:-
- a) "Deviation" is departure from the requirement specified in the tender documents.
  - b) "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirement in the tender documents.
  - c) "Omission" is the failure to submit part or all of the information or documentation required in the tender document.
- 29.3 A material deviation, reservation or omission is one that,
- a) If accepted would,
    - i) Affect in any substantial way the scope, quality, or performance of the job as specified in tender documents.
    - ii) Limit, in any substantial way, inconsistent with the Tender Document, the Employer's rights or the tenderer's obligations under the proposed Contract.
  - b) If rectified, would unfairly affect the competitive position of other bidders presenting substantially responsive bids.
- 29.4 The employer shall examine all aspects of the bid to confirm that all requirements have been met without any material deviation, reservation or omission.
- 29.5 Tenders that do not meet the basic requirements specified in the bid documents are to be treated as unresponsive {both during Techno-commercial evaluation and Financial Evaluation in case of Two Bid System ) and will be ignored. All tenders received will first be scrutinized to see whether the tenders meet the basic requirements as incorporated

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in the Bid document and to identify unresponsive tenders, if any. Unresponsive offers may not subsequently be made responsive by correction or withdrawal of the non-conforming stipulation. Some important points on the basis of which a tender may be declared as unresponsive and be ignored during the initial scrutiny are:

- i) The tender is not in the prescribed format or is unsigned or not signed as per the stipulations in the bid document;
- ii) The required EMD has not been provided or exemption from EMD is claimed without acceptable proof of exemption;
- iii) The bidder is not eligible to participate in the bid as per laid down eligibility criteria
- iv) The bid departs from the essential requirements specified in the bidding document (for example, the tenderer has not agreed to give the required contract performance security); or
- v) Against a schedule in the list of requirements in the tender enquiry, the tenderer has not quoted for the entire requirement as specified in that schedule (example: in a schedule, it has been stipulated that the tenderer will supply the equipment, install and commission it and also train the BGL's personnel for operating the equipment. The tenderer has, however, quoted only for supply of the equipment).

**30 CORRECTION OF ERRORS: Not Applicable**

**31 EVALUATION AND COMPARISON OF BIDS**

Bid shall be evaluated as per evaluation criteria mentioned in Section-II of bidding documents.

Refer BDS for tie breaker criteria.

**32 QUANTITY VARIATION:**

33.1 Where nature of items is such that the items cannot be supplied in exact quantity of the Purchase Order as in case of cables/ steel/ chemicals etc., quantity tolerance upto  $\pm 5\%$  may be allowed, if there is no specific quantity variation/ tolerance criteria in SCC. For such tolerance, separate amendment to Purchase Order would not be necessary.

33.2 The Purchaser reserves the right to delete the requirement of any one or more items of Tender Document without assigning any reason.

33.3 At the time of awarding the contract, the quantity to be procured must be re-judged based on the current data, since the ground situation may have very well changed. The tendered quantity can be increased or decreased by 25 (twenty-five) per cent for ordering, if so warranted.

**33 PURCHASE PREFERENCE**

Purchase preference to Micro & Small Enterprises (MSEs), Domestically Manufactured Electronic Products / Telecom Products or Policy to Provide Purchase Preference as per Public Procurement (Preference to Make in India), Order 2017 etc. shall be allowed as per Government instructions in vogue, as applicable from time to time.

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**[F] – AWARD OF CONTRACT**

**34 AWARD**

Subject to "ITB: Clause-29", BGL will award the Contract to the successful Bidder whose Bid has been determined to be substantially responsive and has been determined as the lowest provided that bidder, is determined to be qualified to satisfactorily perform the Contract.

**35 NOTIFICATION OF AWARD / FAX OF ACCEPTANCE**

35.1 Prior to the expiry of 'Period of Bid Validity', Notification of Award for acceptance of the Bid will be intimated to the successful Bidder by BGL either by Fax / E - mail /Letter or like means defined as the "Fax of Acceptance (FOA)". The Contract shall enter into force on the date of FOA and the same shall be binding on BGL and successful Bidder (i.e. Contractor/Service Provider). The Notification of Award/FOA will constitute the formation of a Contract. The detailed Letter of Acceptance shall be issued thereafter incorporating terms & conditions of Tender Document, Corrigendum, Clarification(s), Bid and agreed variation(s)/acceptable deviation(s), if any. BGL may choose to issue Notification of Award in form of detailed Letter of Acceptance without issuing FOA and in such case the Contract shall enter into force on the date of detailed Letter of Acceptance only.

35.2 Contract/ Delivery/Completion Period shall commence from the date of Notification of Award/FOA or as mentioned therein  
Upon the successful Bidder's / Contractor's furnishing of 'Contract Performance Security/ Security Deposit', pursuant to "ITB: Clause-37", BGL will promptly discharge his 'Earnest Money / Bid Security', pursuant to "ITB: Clause-16".

35.3 The order value is subject to Price Reduction Schedule (PRS) clause.

**36 DISPATCH SCHEDULE:**

36.1 If Purchase Order issued based on FOT (Free on Truck) / FOR (Free on Rail) project site basis, materials shall be delivered at the destination on freight prepaid & door delivery basis and for the cases where order(s) are finalized on Ex-works basis the transportation will be arranged by supplier(s) / BGL on 'freight to pay' basis and the freight will be paid at the destination.

Seller shall submit the following details of goods/cargo within 15 days from Notification of Award to the designated authority as per Purchase Order:

- (i) Shipments Schedule
- (ii) Dimension details of packages
- (iii) Detailed technical write-up along with Catalogue (if applicable)
- (iv) Any other document/details, if mentioned in Purchase Order

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- 36.2 The consignment should be handed over to transporter with E-way bill, wherever required as per law/act. In case such e-way bill is required to be issued by BGL, the concerned designated order issuing authority may be contacted in this regard. It will be the responsibility of the supplier to ensure the compliance of the provisions relating to E-Way bill before dispatch of the consignment and any financial implication arising due to non-compliance in this regard will be to the account of the supplier.
- 36.3 It shall be responsibility of the seller to send intimation immediately on dispatch of the material so that necessary arrangements can be made at site. Delays on account of the same shall solely be attributable to the Supplier.
- 36.4 Wherever, part shipment is allowed (refer BDS), the Supplier is allowed to make part shipment. However, until specified elsewhere in Tender Document, Payment for such part supplied Goods shall be made after supply of complete quantity of respective item.
- 36.5 Wherever the items make a full truck load, the suppliers to dispatch such items in a full truck direct to the consignee on a door delivery basis to the site. In such cases, the supplier to send a consignee copy of the lorry receipt to the consignee along with the consignment and the consignment shall be booked to BGL and not "self". The supplier should dispatch the consignments to the designated consignee. All dispatch documents, that is, railway/lorry receipt, goods consignment note, airway bill, invoices, packing list, freight memos, test certificate, and so on, shall be sent to the concerned authority which will arrange to make the payment. If the payment is to be made through the bank, all original documents are to be sent through the designated bank.

Where critical equipment is involved, suitable special instructions will be provided in SCC to the supplier about the mode of transport, loading, avoidance of transshipment and, if necessary, provision of escorts. In case of chemicals, powdery materials, liquid materials, and so on, supplier is to ensure proper packaging to avoid spillage en route, so as to avoid pollution problems and also to conform to the ISO 14001 standard (wherever applicable).

**37 CONTRACT PERFORMANCE SECURITY / SECURITY DEPOSIT**

- 37.1 SD/CPS @ 5% of Total order/contract value in case contract period is less than one year or 5% of Annualized order/contract value in case contract period is more than one year.

OR

Initial security deposit (ISD) @ 2.5% of total order/contract value in case contract period is less than one year or 2.5% of annualize order/contract value in case contract period is more than one year within 30 days of FOA/notification of award and deduction @ 2.5% of the RA bill subsequently from RA bills till the total amount of security deposit ( including ISD and deduction amount) reaches 5% of Total order/contract value in case

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contract period is less than one year or 5% of annualized order/ Contract value in case contract period is more than one year.

The Contract Performance Guarantee will be obtained for a period of 90 days beyond the contract period/ duration and applicable Warranty/ Guarantee /Defect Liability Period (if any).

Within 30 days of the receipt of the notification of award/ Fax of Acceptance from BGL, the successful bidder shall furnish the contract Performance Bank Guarantee (CPBG) in accordance with of General Conditions of the Contract. The CPBG shall be in the form of either Banker's Cheque or Demand Draft or Insurance Surety Bond or Fixed Deposit Receipt or Bank Guarantee (including e-bank guarantee) or Letter of Credit and shall be in the currency of the Contract. However, CPBG shall not be applicable in cases wherein the individual order/contract value as specified in Notification of Award is less than INR 5 Lakh (exclusive of GST).

However, on consent of BGL, an additional time of 30 days can be allowed (while maintaining the validity of EMD for the requisite period) for submission of CPS / SD. However, a penal interest of Marginal Cost of Fund based Lending Rate (MCLR) for one year charged by SBI (applicable on due date of submission of CPS/SD i.e. 30th day after issuance of FOA Notification of award) plus 4.0% p.a (on CPS/SD amount) shall be charged for delay beyond 30 days i.e. from 31st days after issuance of FOA.

Further, where contractor/ vendor/supplier/consultant is mobilized at site and executing the contract/ order as per provision of contract/order or mile stones decided during Kick of Meeting, further period for submission of CPBG (beyond 60 days) with application of aforesaid penal interest, can be given on consent of BGL. This provision is applicable only in case where contractor/ vendor/supplier/consultant is mobilized at site and executing the contract/ order as per provision of contract/order or mile stones decided during Kick of Meeting. In such case, Security Deposit (along with aforesaid applicable interest as on date of release of payment) can be deducted from the due payment of contractor/ vendor/supplier/consultant against such order/ contract.

For remaining cases, non-submission of CPBG beyond specified period (30 days or 60 days in case extension is allowed) may constitute sufficient ground for termination of order/ contract and subsequent actions following termination as per the tender.

The first payment to contractor/ vendor/supplier is to be released only after submission of Contract Performance Security (CPS)/ Security Deposit (SD) & deduction of

applicable interest OR deduction of Contract Performance Security (CPS)/ Security Deposit (SD) along with applicable interest from the due payment as mentioned herein above.

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- 37.2 The contract performance security shall be for an amount equal to specified in bid document towards faithful performance of the contractual obligations and performance of equipment. For the purpose of CPS, Contract/order value shall be exclusive of **GST (CGST & SGST/UTGST or IGST)** to be reimbursed by the Owner.  
Bank Guarantee towards CPS shall be from any Indian scheduled bank or a branch of an International bank situated in India and registered with Reserve bank of India as scheduled foreign bank in case of Indian bidder as well as foreign bidder. However, in case of bank guarantees from banks other than the Nationalized Indian banks, the bank must be a commercial bank having net worth in excess of Rs 100 crores and a declaration to this effect should be made by such commercial bank either in the Bank Guarantee itself or separately on its letterhead.
- 37.3 The successful bidder can also submit the SD/CP G through online banking transaction i.e. IMPS/NEFT/RTGS/SWIFT etc. For this purpose, the details of BGL's Bank Account is mentioned in BDS. Further, in case a successful Bidder is willing to furnish SD/CPS through SWIFT, the details may be obtained from Purchase Officer immediately after receipt of FOA.  
While remitting such online transaction, the bidder must indicate "Security Deposit/ Contract Performance Security against FOA/DLOA/PO no. \_\_\_\_\_ (contractor/vendor to specify the FOA/DLOA/PO No.)" under remarks column of such transaction on respective bank portal. The contractor/vendor shall be required to submit the successful transaction details to the dealing officer immediately through email/letter and necessarily within 30 days from the date of Fax of Acceptance.
- 37.4 Failure of the successful bidder to comply with the requirements of this article shall constitute sufficient grounds for the annulment of the award and forfeiture of the EMD.
- 37.5 In case of forfeiture of Contract Performance Security/ Security Deposit in terms of GCC, the forfeited amount will be considered inclusive of tax and tax invoice will be issued by BGL. The forfeiture amount will be subject to final decision of BGL based on other terms and conditions of order.
- 37.6 The first payment to vendor is to be released only after submission of CPS / Security Deposit (SD).
- 37.7 Before the CPS / Security Deposit (SD) is released a "No Claim Certificate" is to be submitted by the supplier/vendor.
- 37.8 Further, the bidder can submit CPBG online through issuing bank to BGL directly as per Ministry of Finance (MOF) Department of financial service direction vide letter ref

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**Tender for Procurement of Turbine Flow Meter (Custody Meter) and EVC at Mother Station to get 4-20 mA flow signal to automatize Odorization Unit at Vijayawada GA**  
**Bid Document No: BGL/713/2025-26**

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number F.No.7/112/2011-BOA dated 17<sup>th</sup> July 2012. In such cases confirmation will not be sought from issuing banker by BGL.

"In addition to existing specified form (i.e.Demand Draft (DD)/ Banker's Cheque/ Bank Guarantee/ Letter of Credit) mentioned in tender documents for submission of Security Deposit/ Contract Performance Security, the successful bidder can also submit Security Deposit/ Contract Performance Security through online banking transaction i.e. IMPS/NEFT/RTGS etc.

For this purpose, the details of **Bhagyanagar Gas Limited** Bank Account is as under:

**Account Holder's Name: M/S Bhagyanagar Gas Ltd**

**Account Number: 000805017218**

**IFSC Code: ICIC0000008**

**Other details: Khairatabad, Hyderabad**

While remitting, the bidder must indicate "Security Deposit/ Contract Performance Guarantee against FOA/LOA/PO no.\_\_\_\_\_ (Contractor/ vendor to specify the FOA/LOA/PO no.)" under remarks column of respective bank portal. The contractor/ vendor shall be required to submit the successful transaction details to the concerned C&P officer(s) immediately and necessarily within 30 days from the date of Fax of Acceptance.

**"CPBG/Security Deposit will not be accepted in case the same has reference of 'remitter' / 'financer' other than bidder on the aforementioned financial instrument of CPBG/Security Deposit submitted by the Supplier/ contractor/ Service Provider.**

**38 PROCEDURE FOR ACTION IN CASE CORRUPT/ FRAUDULENT/COLLUSIVE/ COERCIVE PRACTICES**

38.1 Procedure for action in case Corrupt/ Fraudulent/Collusive/Coercive Practices is enclosed at Annexure-I.

**38.2 NON-APPLICABILITY OF ARBITRATION CLAUSE IN CASE OF BANNING OF VENDORS/ SUPPLIERS / CONTRACTORS/BIDDERS/ CONSULTANTS INDULGED IN FRAUDULENT/ COERCIVE PRACTICES**

Notwithstanding anything contained contrary in GCC and other "CONTRACT DOCUMENTS", in case it is found that the Vendors/ Suppliers / Contractors/Bidders/ Consultants indulged in fraudulent/ coercive practices at the time of bidding, during execution of the contract etc., and/or on other grounds as mentioned in BGL's "Procedure for action in case Corrupt/ Fraudulent/ Collusive/ Coercive Practices" (Annexure-I), the contractor/bidder shall be banned (in terms of aforesaid procedure) from the date of issuance of such order by Bhagyanagar Gas Limited (BGL) to such Vendors/ Suppliers / Contractors/Bidders/ Consultants.

The Vendor/ Supplier / Contractor/ Bidder/Consultant understands and agrees that in such cases where Vendor/ Supplier / Contractor/ Bidder/Consultant has been banned (in terms of aforesaid procedure) from the date of issuance of such order by Bhagyanagar Gas Limited (BGL), such decision of Bhagyanagar Gas Limited (BGL) shall be final and

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binding on such Vendor/ Supplier / Contractor/ Bidder/Consultant and the 'Arbitration clause' in the GCC and other "CONTRACT DOCUMENTS" shall not be applicable for any consequential issue /dispute arising in the matter.

### **39 PUBLIC PROCUREMENT POLICY FOR MICRO AND SMALL ENTERPRISES**

39.1 Following provision has been incorporated in tender for MSEs, in line with notification of Government of India, vide Gazette of India proclaiming the Public Procurement Policy on procurement of goods, works and services from Micro and Small Enterprises (MSEs)

- i) Issue of tender document to MSEs free of cost.
- ii) Exemption to MSEs from payment of EMD/Bid Security.
- iii) In Tender Document participating Micro and Small Enterprises quoting price within the price band of 'L1 + 15%' shall also be allowed to supply a portion of requirement by bringing down their prices to L1 price in a situation where L1 price is from someone other than a micro and small enterprise and such micro and small enterprises shall be allowed to supply upto 25% of the total tendered value. In case of more than one such MSE(s), the supply shall be shared proportionately (to tendered quantity). Further, out of above 25%, 4% shall be from MSEs owned by SC/ST entrepreneurs. Further, 3% shall be reserved for MSEs owned by women within above 25% reservation. The respective quota(s) shall be transferred to other MSEs in case of non-availability of MSEs owned by SC/ST entrepreneurs/ MSEs owned by Women.

Further, the definition of MSEs owned by Women shall be as per the definition for MSEs owned by SC/ST entrepreneurs.

This quota is to be transferred to other MSEs in case of non-availability of MSEs owned by SC/ST entrepreneurs. The quoted prices against various items shall remain valid in case of splitting of quantities of the items above.

In case tendered item is non-splittable or non-dividable (specified in Bid Data Sheet), MSE quoting price within price band L1 (other than MSE) + 15% , may be awarded for full/ complete supply of total tendered value subject to matching of L1 price.

39.2.1 The MSE(s) owned by SC/ST Entrepreneurs shall mean:-

- a) In case of proprietary MSE, Proprietor(s) shall be SC/ST.
- b) In case of partnership MSE, the SC/ST partners shall be holding atleast 51% share in the unit
- c) In case of private Limited Companies, at least 51% share is held by SC/ST. If the MSE is owned by SC/ST Entrepreneurs, the bidder shall furnish appropriate documentary evidence in this regard.

The MSE(s) owned by Women shall mean:-

- a) In case of proprietary MSE, Proprietor(s) shall be Women.
- b) In case of partnership MSE, the Women partners shall be holding atleast 51% share in the unit
- c) In case of private Limited Companies, at least 51% share is held by Women. If the MSE is owned by Women Entrepreneurs, the bidder shall furnish appropriate documentary evidence in this regard.

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39.3 In case Bidder is a Micro or Small Enterprise, the Bidder shall submit Udyam Registration Certificate for availing benefit under Public Procurement Policy for MSEs-2012.

Vide Gazette notification dated 18.10.2022 of Ministry of MSME, the following is notified:

*“In case of an upward change in terms of investment in plant and machinery or equipment or turnover or both, and consequent re-classification, an enterprise shall continue to avail of all nontax benefits of the category (micro or small or medium) it was in before the re-classification, for a period of three years from the date of such upward change”*

**Accordingly, in case of upward change in status, MSE bidder is required to submit the previous certificate also to get the MSE benefits.**

The above document(s) submitted by the Bidder shall be duly certified by the Chartered Accountant (not being an employee or a Director or not having any interest in the bidder’s company/firm) and notary public with legible stamp.

If the bidder does not provide the above confirmation or appropriate document or any evidence, then it will be presumed that they do not qualify for any preference admissible in the Public Procurement Policy (PPP) 2012.

Further, MSEs who are availing the benefits of the Public Procurement Policy (PPP) 2012 get themselves registered with MSME Data Bank being operated by NSIC, under SME Division, M/o MSME, in order to create proper data base of MSEs which are making supplies to CPSUs.

39.4 If against an order placed by BGL, successful Bidder(s) (other than Micro/Small Enterprise) is procuring material/services from their sub-vendor who is a Micro or Small Enterprise as per provision mentioned at clause no.39.3 above with prior consent in writing of the purchasing authority/Engineer-in-charge, the details like Name, Registration No., Address, Contact No. details of material & value of procurement made, etc. of such Enterprises shall be furnished by the successful Bidder at the time of submission of invoice/Bill.

39.5 The Public Procurement Policy for MSEs is meant for procurement of only goods produced & Services rendered by MSEs. The benefit of policy are not extended to the Traders/Dealers/Distributors/Stockiest/Wholesalers. If the major activity of the MSE is Trading/Services (Trading) then the unit is a trader and is not eligible for availing the benefits of Public Procurement Policy for MSEs Order, 2012. However, irrespective of product category, the benefits of Public Procurement Policy w.r.t. exemption from payment of EMD, free tender document shall be given to all eligible MSEs, except for traders and in Works contracts. Further, for considering Purchase Preference benefits, the bidder should be a Manufacturer or service provider of the item(s)/Service(s) to be procured. In case of evaluation on

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overall basis, the bidder should be a manufacturer or service provider of any of the item(s)/Service(s) to be procured.

39.6 NSIC has initiated a scheme of “Consortia and Tender Marketing Scheme” under which they are assisting the Micro & Small enterprises to market their products and services through tender participation on behalf of the individual unit or through consortia.

Accordingly, if the MSEs or the consortia, on whose behalf the bid is submitted by NSIC, is meeting the BEC and other terms and conditions of tender their bid will be considered for further evaluation.

Further, in such cases a declaration is to be submitted by MSE/ consortia on their letter head (s) that all the terms and conditions of tender document shall be acceptable to them.

39.7 Deleted

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**40 AHR ITEMS: (Please see the applicability)**

In item rate contract where the quoted rates for the items exceed 50% of the estimate rates, such items will be considered as Abnormally High Rates (AHR) items and payment of AHR items beyond the SOR stipulated quantities shall be made at the lowest amongst the following rates:

- I) Rates as per SOR, quoted by the Contractor/Bidder.
- II) Rate of the item, which shall be derived as follows:
  - a. Based on rates of Machine and labour as available from the contract (which includes contractor's supervision, profit, overheads and other expenses).
  - b. In case rates are not available in the contract, rates will be calculated based on prevailing market rates of machine, material and labour plus 15% to cover contractor's supervision profit, overhead & other expenses.

**41 VENDOR PERFORMANCE EVALUATION**

Shall be as stipulated Annexure-II to ITB herewith.

**42 INCOME TAX & CORPORATE TAX**

42.1 Income tax deduction shall be made from all payments made to the contractor as per the rules and regulations in force and in accordance with the Income Tax Act prevailing from time to time.

42.2 Corporate Tax liability, if any, shall be to the contractor's account.

42.3 TDS, wherever applicable, shall be deducted as per applicable act/law/rule.

**42.4 MENTIONING OF PAN NO. IN INVOICE/BILL**

As per CBDT Notification No. 95/2015 dated 30.12.2015, mentioning of PAN no. is mandatory for procurement of goods / services/works/consultancy services exceeding Rs. 2 Lacs per transaction.

Accordingly, supplier/ contractor/ service provider/ consultant should mention their PAN no. in their invoice/ bill for any transaction exceeding Rs. 2 lakhs. As provided in the notification, in case supplier/ contractor/ service provider/ consultant do not have PAN no., they have to submit declaration in Form 60 along with invoice/ bill for each transaction.

Payment of supplier/ contractor / service provider/ consultant shall be processed only after fulfilment of above requirement.

**43. RESOLUTION OF DISPUTES/ARBITRATION**

**1. CONCILIATION:**

Bhagyanagar Gas Limited will frame the Conciliation Rules 2023 in conformity with Part – III of the Arbitration and Conciliation Act 1996 as amended from time to time for speedier, cost effective and amicable settlement of disputes through conciliation. All issue(s)/dispute(s) arising under the Contract, which cannot be mutually resolved within a reasonable time, may be referred for conciliation in accordance with BGL Conciliation

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Rules 2023 as amended from time to time. A copy of the said rules shall be made available on BGL's web site i.e www.bgl.co.in

Where invitation for Conciliation has been accepted by the other party, the Parties shall attempt to settle such dispute(s) amicably under Part-III of the Arbitration and Conciliation Act, 1996 and Bhagyanagar Gas Limited Conciliation Rules, 2023. It would be only after exhausting the option of Conciliation as an Alternate Dispute Resolution Mechanism that the Parties hereto shall invoke Arbitration Clause. For the purpose of this clause, the option of 'Conciliation' shall be deemed to have been exhausted, even in case of rejection of 'Conciliation' by any of the Parties.

**2. ARBITRATION**

All issue(s)/dispute(s) excluding the matters that have been specified as excepted matters and listed at clause no. 2.7 and which cannot be resolved through Conciliation, such issue(s)/dispute(s) shall be referred to arbitration for adjudication by Sole Arbitrator.

The party invoking the Arbitration shall have the option to either opt for Ad-hoc Arbitration as provided at Clause 2.1 below or Institutionalized Arbitration as provided at Clause 2.2 below, the remaining clauses from 2.3 to 2.7 shall apply to both Ad-hoc and Institutional Arbitration:-

2.1 On invocation of the Arbitration clause by either party, BGL shall suggest a panel of three independent and distinguished persons (Retd Supreme Court / High Court Judges only) to the other party from the Panel of Arbitrators maintained by 'Hyderabad Arbitration Centre (HAC) to select any one among them to act as the Sole Arbitrator. In the event of failure of the other party to select the Sole Arbitrator within 30 days from the receipt of the communication from BGL suggesting the panel of arbitrators, the right of selection of the sole arbitrator by the other party shall stand forfeited and BGL shall appoint the Sole Arbitrator from the suggested panel of three Arbitrators for adjudication of dispute(s). The decision of BGL on the appointment of the sole arbitrator shall be final and binding on the other party. The fees payable to Sole Arbitrator shall be governed by the fee Schedule of 'Delhi International Arbitration Centre'.

OR

2.2 If a dispute arises out of or in connection with this contract, the party invoking the Arbitration shall submit that dispute to any one of the Arbitral Institutions i.e ICADR/ICA/DIAC/SFCA/HAC and that dispute shall be adjudicated in accordance with their respective Arbitration Rules. The matter shall be adjudicated by a Sole Arbitrator who shall necessarily be a Retd Supreme Court/High Court Judge to be appointed/nominated by the respective institution. The cost/expenses pertaining to the said Arbitration shall also be governed in accordance with the Rules of the respective Arbitral Institution. The decision of the party invoking the Arbitration for reference of dispute to a specific Arbitral institution for adjudication of that dispute shall be final and binding on both the parties and shall not be subject to any change thereafter. The institution once selected at the time of invocation of dispute shall remain unchanged.

2.3 The cost of arbitration proceedings shall be shared equally by the parties.

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- 2.4 The Arbitration proceedings shall be in English language and the seat, venue and place of Arbitration shall be Hyderabad, India only.
- 2.5 Subject to the above, the provisions of Arbitration & Conciliation Act 1996 and any amendment thereof shall be applicable. All matter relating to this Contract and arising out of invocation of Arbitration clause are subject to the exclusive jurisdiction of the Court(s) situated at Hyderabad.
- 2.6 List of Excepted matters:
- Dispute(s)/issue(s) involving claims below Rs 25 lakhs and above Rs 25 crores.
  - Dispute(s)/issue(s) relating to indulgence of Contractor/Vendor/Bidder in corrupt/fraudulent/collusive/coercive practices and/or the same is under investigation by CBI or Vigilance or any other investigating agency or Government.
  - Dispute(s)/issue(s) wherein the decision of Engineer-In-Charge/owner/BGL has been made final and binding in terms of the Contract.
- 2.7. Disputes involving claims below Rs 25 Lakhs and above Rs. 25 crores:- Parties mutually agree that dispute(s)/issue(s) involving claims below Rs 25 Lakhs and above Rs 25 crores shall not be subject matter of Arbitration and are subject to the exclusive jurisdiction of the Court(s) situated at Hyderabad.
- 2.8 DELETED
- 2.9 Arbitration Awards
- In cases where the BGL has challenged an arbitral award and, as a result, the amount of the arbitral award has not been paid, 75% of the arbitral award (which may include interest up to date of the award) shall be paid by the BGL to the contractor/ concessionaire against a Bank Guarantee (BG). The BG shall only be for the said 75% of the arbitral award as above and not for the interest which may become payable to BGL should the subsequent court order require refund of the said amount.
  - The payment may be made into a designated Escrow Account with the stipulation that the proceeds will be used first, for payment of lenders' dues, second, for completion of the project and then for completion of other projects of BGL as mutually agreed/ decided. Any balance remaining in the escrow account subsequent to settlement of lenders' dues and completion of projects of BGL may be allowed to be used by the contractor/ concessionaire with the prior approval of the lead banker and BGL. If otherwise eligible and subject to contractual provisions, retention money and other amounts withheld may also be released against BG.
3. **GOVERNING LAW AND JURISDICTION:**
- The Contract shall be governed by and construed in accordance with the laws in force in India. The Parties hereby submit to the exclusive jurisdiction of the Courts situated at Hyderabad for adjudication of disputes, injunctive reliefs, actions and proceedings, if any, arising out of this Contract.

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**44 PROMOTION OF PAYMENT THROUGH CARDS AND DIGITAL MEANS:**

To promote cashless transactions, the onward payments by Suppliers to their employees, service providers, sub-contractors and suppliers may be made through Cards and Digital means to the extent possible.

**45 PROVISION W.R.T. TDS ON PURCHASE OF GOODS UNDER SECTION 194Q OF INCOME TAX ACT**

45.1 TDS as applicable will be deducted by BGL under section 194Q of the Income Tax Act, 1961 on Purchases exceeds Rs. 50 Lakhs or limit defined therein from time to time during the financial year.

45.2 Since BGL is liable to deduct Income Tax TDS under section 194Q, the provision of TCS as per section 206C(1H) of the Income Tax Act, 1961 shall not be applicable.

**45.3 Higher rate of TDS for non-filers of ITR**

As per Section 206AB of Income Tax Act, 1961, in case of any vendor/supplier who does not file their Income Tax Return for both of the two previous years preceding to current year and aggregate amount of TDS is more than or equal to 50,000/- in each of those previous two years (or limit defined by Govt. from time to time), then TDS will be deducted at the higher of following rates:

- (I) Twice the rate mentioned in relevant TDS section.
- (II) Twice the rate or rates in force
- (III) 5%

**46 DOCUMENTS FOR PAYMENT:**

Payment terms shall be as mentioned in GCC-Goods/SCC.

However, for release of payment, the following documents are to be submitted by supplier/ vendor:

- i) Supplier's Invoice indicating, inter alia description and specification of the goods, quantity, unit price, total value;
- ii) Packing list;
- iii) LR/GR/consignment note;
- iv) Manufacturer's guarantee certificate and in-house inspection certificate (wherever applicable);
- v) Inspection certificate issued by purchaser's inspector (wherever applicable); and

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vi) Any other document(s) as and if required in terms of the contract.

**47. UNIQUE DOCUMENT IDENTIFICATION NUMBER BY PRACTICING CHARTERED ACCOUNTANTS:**

Practicing Chartered Accountants shall generate Unique Document Identification Number (UDIN) for all certificates issued by them as per provisions of Tender Document.

However, UDIN may not be required for documents being attested by Chartered Accountants in terms of provisions of Tender Document.

**48. PROVISIONS FOR STARTUPS (AS DEFINED IN GAZETTE NOTIFICATION NO. D.L-33004/99 DATED 18.02.2016 AND 23.05.2017 OF MINISTRY OF COMMERCE AND INDUSTRY AND AS AMENDED FROM TIME TO TIME) (FOR APPLICABILITY REFER BDS)**

As mentioned in Section-II, Prior turnover and prior experience shall not be required for all Startups [whether Micro & Small Enterprises (MSEs) or otherwise] subject to their meeting the quality and technical specifications specified in tender document and submission of document specified in Section-II. Further, the Startups are also exempted from submission of EMDs, if applicable.

If a Startup emerge lowest bidder, the LoA on such Startup shall be placed for entire tendered quantity/group/item/part (as the case may be). However, during the Kick of Meeting monthly milestones/ check points would be drawn. Further, the performance of such contractor/ service provider will be reviewed more carefully and action to be taken as per provision of contract in case of failure/ poor performance.

**49. PROVISION REGARDING INVOICE FOR REDUCED VALUE OR CREDIT NOTE TOWARDS PRS**

As mentioned in GCC, PRS is the reduction in the consideration / contract value for the goods / services covered under this contract. In case of delay in supply/ execution of contract, supplier/ contractor/ service provider should raise invoice for reduced value as per Price Reduction Schedule Clause (PRS clause). If supplier/ contractor/ service provider has raised the invoice for full value, then supplier/ contractor/ service provider should issue Credit Note towards the applicable PRS amount with applicable taxes.

In such cases if supplier/ contractor/ service provider fails to submit the invoice with reduced value or does not issue credit note as mentioned above, BGL will release the payment to supplier/ contractor/ service provider after giving effect of the PRS clause with corresponding reduction of taxes charged on vendor's invoice, to avoid delay in delivery/collection of material."

In case any financial implication arises on BGL due to issuance of invoice without reduction in price or non-issuance of Credit Note, the same shall be to the account of supplier/ contractor/ service provider. BGL shall be entitled to deduct / setoff /recover such GST

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**Tender for Procurement of Turbine Flow Meter (Custody Meter) and EVC at Mother Station to get 4-20 mA flow signal to automatize Odorization Unit at Vijayawada GA**  
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amount (CGST & SGST/UTGST or IGST) together with penalties and interest, if any, against any amounts paid or becomes payable by BGL in future to the Supplier/Contractor under this contract or under any other contract.

**50 PACKING INSTRUCTIONS:**

- 50.1 Packing shall be strong and sturdy such that it can withstand loading/unloading & pushing by mechanical devices. All packaging shall be done in such a manner as to reduce volume and weight as much as possible without jeopardizing the safety of the material. All packing materials shall be new.
- 50.2 Fragile articles should have special packing materials depending on type of materials.
- 50.3 All soft and delicate surfaces on equipment/material should be carefully protected / painted with suitable coating and wrapped to prevent rusting and damage. All mechanical and electrical equipment and other heavy articles should be securely fastened to the bottom of the case, to avoid damage.
- 50.4 Attachments and spare parts of equipment and all small pieces shall be packed separately in wooden cases with adequate protection inside the case and sent along with main equipment. Each item shall be tagged so as to identify it with the main equipment and part number and reference number shall be indicated.
- 50.5 All protrusions shall be suitably protected and openings shall be blocked by wooden/steel covers as may be required.
- 50.6 Detailed case wise packing list in water proof envelope shall be inserted in each package together with equipment/material. One copy of 'Detailed Packing List' shall be fastened outside of the package in waterproof envelope and covered by metal cover.
- 50.7 Each package shall be marked on three sides with proper paints/indelible waterproof ink as follows:

PURCHASER:

DESTINATION:

Purchase Order No.....

Net Wt..... Kgs,

Gross Wt..... Kgs.

Dimensions.....X.....X.....CM.

Package No. (Sl. No. of total packages).....

Seller's Name.....

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- 50.8 Permits are to be obtained separately for entry/use of vehicles/trailers etc. inside the plant. The following requirements are to be met to obtain vehicle permit:-
- Vehicle/Equipment etc. should be brought to site in good conditions.
  - Valid Road Tax Certificate, fitness certificate and insurance policy from Competent Authority
  - Valid operating/driving license of driver/operator
  - Any other requirement mentioned elsewhere in Tender Document

**50.9 GREEN PACKAGING:**

Green packaging, also known as **sustainable packaging makes use of materials and manufacturing methods for the packaging of goods** that has a significantly low impact on both energy consumption and the environment thus resulting in improved sustainability

In order to promote Green Packing, vendors/suppliers may use packaging that are preferably biodegradable. Multilayer packaging may not be used, wherever applicable. While packaging, the following may be preferred:

- Adopt green packaging practices for packaging
- Packaging may be recyclable with appropriate recycling labels on packaging or goods. The product may be packaged in material that is recyclable after use and be certified for this.
- If plastic packaging is unavoidable, then the packaging shall be reusable plastics or made of recycled material. The packaging should have appropriate recycling label on it.
- The paper to be packaged in material that is recyclable/reusable or biodegradable.
- Alternate packaging materials like aluminium, cardboard, paper, paper board, jute bag etc. may be explored.
- Use of reusable containers or packaging to transport products;
- Styrofoam, thermocols, thin film plastics, polystyrene etc. may be avoided
- Avoid the use of materials toxic to humans or the environment.

51 **REPEAT ORDER:**

PURCHASER reserves the right, within 6 months of order to place repeat order upto 25% of the original ordered quantity (s) without any change in unit price or other terms and conditions.

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**Annexure-A**

**ELIGIBILITY CRITERIA IN CASE BID IS SUBMITTED ON THE BASIS OF  
TECHNICAL EXPERIENCE OF FOREIGN BASED ANOTHER COMPANY  
(SUPPORTING COMPANY) WHICH HOLDS MORE THAN FIFTY PERCENT  
OF THE PAID-UP SHARE CAPITAL OF THE BIDDER COMPANY OR VICE  
VERSA:**

Offers of those bidders (not under Consortium arrangement) who themselves do not meet the technical experience criteria as stipulated in BEC and are quoting based on the experience of foreign based another company (supporting company) can also be considered. In such case the supporting company should hold more than fifty percent of the paid up share capital of the bidding company or vice versa.

However, the supporting company should on its own meet the technical experience as stipulated in the BEC and should not rely on any other company or through any other agreement like technical collaboration agreement.

In that case as the bidding company is dependent upon the technical experience of another company with a view to ensure your commitment and involvement of the companies involved for successful execution of the contract, the participating bidder should enclose the following agreement/ guarantees/ undertakings along with the techno-commercial bid.

- i) An agreement (as per appendix A1) between the bidder and the supporting company.
- ii) Guarantee (as per appendix A2) by the supporting company to BGL for fulfilling the obligation under the Agreement.
- iii) Undertaking by supporting company to provide a performance bank guarantee as per appendix A3) equivalent to 50% of the value of the PBG which is to be submitted by the bidding company, in case of being the successful bidder.

In case where foreign based supporting company does not have permanent establishment in India as per Indian Income Tax Act, the bidding company can furnish performance bank guarantee for an amount, which is sum of PBG amount to be submitted by the bidder and additional PBG amount required to be submitted by the supporting company subject to the condition that supporting company have 100% paid up equity share capital of the bidder either directly or through intermediate subsidiaries or vice versa.

In such case bidding company shall furnish an undertaking that their foreign based supporting company is not having any permanent establishment in India in terms of Income Tax Act of India.

- iv) Undertaking from the supporting company to the effect that in addition to invoking the PBG submitted by the bidding company, the PBG provided by supporting company shall be invoked by BGL due to non-performance of the bidding company.

**Note:**

- In case supporting company fails to submit Bank Guarantee as per (iii) above, EMD/SD submitted by the bidder shall be forfeited.
- The Financial BEC of tender is to be met by bidder on their own.

(Sign & Seal of Bidder)

- v) Exchange rate for Conversion of Currency for evaluation of documents submitted by bidders for BEC which are in other currency than specified in BEC shall be as follows:
- (a) **BEC (Technical):** Bill Selling (foreign exchange) Rate of State Bank of India as prevailing on the date of award of order/contract submitted by bidder.

In case, the SBI Selling rate is not available as on the date of conversion as specified above for respective cases, the exchange rate for conversion of currency shall be taken from the internet, such as:

<https://www.xe.com/currencyconverter>

<https://economictimes.indiatimes.com/markets/forex/currency-converter>

<https://www.oanda.com/currency/converter>

(Sign & Seal of Bidder)



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**Appendix-A1 to Annexure-A**

**FORMAT OF AGREEMENT TO BE EXECUTED BETWEEN BIDDER AND  
THEIR FOREIGN BASED SUPPORTING COMPANY ON INDIAN STAMP PAPER OF  
REQUISITE VALUE DULY NOTARIZED.**

This agreement made this \_\_\_ day of \_\_\_ month \_\_\_ year by and between M/s \_\_\_\_\_ (Fill in Bidder's full name, constitution and registered office address) \_\_\_\_\_ hereinafter referred to as bidder on the first part and M/s \_\_\_\_\_ (Fill in full name, constitution and registered office address company which hold more than fifty percent of the paid-up share capital of the bidding company or vice versa) hereinafter referred to as "Supporting Company" of the second part.

Whereas

M/s. BHAGYANAGAR Gas Limited (hereinafter referred to as BHAGYANAGAR Gas) has invited offers vide their tender No. \_\_\_\_\_ for \_\_\_\_\_ and \_\_\_\_\_ M/s. \_\_\_\_\_ (Bidder) intends to bid against the said tender and desires to have technical support of M/s \_\_\_\_\_ [Supporting Company]

And whereas Supporting Company represents that they have gone through and understood the requirements of the subject tender and are capable and committed to provide the services as required by the bidder for the successful execution of the contract, if awarded to the bidder.

Now, it is hereby agreed to by and between the parties as follows:

- a) M/s. \_\_\_\_\_ (Bidder) will submit an offer to BHAGYANAGAR Gas for the full scope of work as envisaged in the tender document as the main bidder and liaise BHAGYANAGAR Gas directly for any clarifications etc. in this context.
- b) M/s. \_\_\_\_\_ [Supporting Company] undertakes to provide technical support and expertise, expert manpower and project management including financial support, if so required, to the bidder to discharge its obligations as per the Scope of Work of the tender / Contract for which offer has been made by the bidder and accepted by BHAGYANAGAR Gas.
- c) The Bidder/ Supporting Company holds more than 50% paid-up equity capital of the Supporting Company/ Bidder.
- d) This agreement will remain valid till the validity of bidder's offer to BHAGYANAGAR Gas including extension if any and till satisfactory performance of the contract, the same is awarded by BHAGYANAGAR Gas to the bidder.
- e) Supporting Company undertakes that this agreement shall remain enforceable even if their stake in Bidder is diminished during the execution of works under the contract between the Bidder and BHAGYANAGAR Gas.
- f) The bidder shall have the overall responsibility of satisfactory execution of the contract awarded by BHAGYANAGAR Gas, however without prejudice to any rights that BHAGYANAGAR Gas might have against the Supporting Company.
- g) It is further agreed that bidder and Supporting Company shall be jointly and severally responsible to BHAGYANAGAR Gas for the performance of works during the contract  
(Sign & Seal of Bidder)



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period and for the satisfactory execution of the contract, and for all the consequences for non-performance thereof.

In witness whereof, the parties hereto have executed this agreement on the date mentioned above.

For and on behalf of  
(Bidder)  
M/s.

For and on behalf of  
(Supporting Company)  
M/s.

Witness:  
1)  
2)

Witness:  
1)  
2)

---

(Sign & Seal of Bidder)



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**Appendix-A2 to Annexure-A**

**GUARANTEE BY THE FOREIGN BASED SUPPORTING COMPANY/ GUARANTOR**

THIS DEED OF GUARANTEE executed at .....this..... day of ..... by M/s ..... (mention complete name) a company duly established and existing under the laws of ..... (insert country), having its Registered Office at ..... hereinafter called “the Guarantor and/ or the Supporting Company” which expression shall, unless excluded by or repugnant to the subject or context thereof, be deemed to include its successors and permitted assignees.

FOR

M/s ..... (bidder) a company duly established and existing under the laws of ..... (insert country), having its Registered Office at ..... hereinafter called the “Bidder” which expression shall, unless excluded by or repugnant to the subject or context thereof, be deemed to include its successors and permitted assignees.

TOWARDS

M/s BHAGYANAGAR Gas Limited, a company duly registered under the law of India having its Registered Office at 2<sup>nd</sup> Floor, TSIDC Building, Parishram Bhavan, Basheer Bagh, Hyderabad – 500004, India, and having Purchase center at ..... hereinafter called “BHAGYANAGAR Gas” which expression shall unless excluded by or repugnant to the context thereof, be deemed to include its successor and assignees.

WHEREAS BHAGYANAGAR Gas has invited tender number ..... for ..... on ....., and the bidder has submitted it bid number..... in response to the above mentioned tender invited by BHAGYANAGAR Gas.

AND WHEREAS the bidder/ Guarantor Company holds more than 50% paid up equity capital of the Supporting Company/ Bidder.

AND WHEREAS one of the condition for acceptance of Bidder’s bid against said tender is that in case the bidder is seeking to qualify upon the technical credentials of its Guarantor Company, then the bidder shall arrange a guarantee from its Guarantor Company guaranteeing due and satisfactory performance of the work covered under the said tender including any change therein as may be deemed appropriate by the BHAGYANAGAR Gas at any stage.

The Guarantor represents that they have gone through and understood the requirement of the above said tender and are capable of and committed to provide technical and such other supports as may be required by the Bidder for successful execution of the same.

The Bidder and the Guarantor have entered into an agreement dated ..... as per which the Guarantor shall be providing technical, financial and such other supports as may be necessary for performance of the work under the tender, if the contract is awarded to the Bidder.

Accordingly, at the request of the Bidder and in consideration of and as a requirement for the BHAGYANAGAR Gas to enter into agreement(s) with the Bidder, the Guarantor hereby

(Sign & Seal of Bidder)



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guarantees and undertakes that upon award of Contract to Bidder against bid number .....,  
made by the Bidder under tender number.....

1. The Guarantor unconditionally agrees that in case of non-performance by the Bidder of any of its obligations in any respect, the Guarantor shall, immediately on receipt of notice of demand by the BHAGYANAGAR Gas, take up the job without any demur or objection, in continuation and without loss of time and without any cost to the BHAGYANAGAR Gas and duly perform the obligations of the Bidder to the satisfaction of the BHAGYANAGAR Gas.
2. The Guarantor agrees that the Guarantee contained herein shall remain valid till the satisfactory execution and completion of the work (including discharge of the warranty obligations) awarded to the Bidder.
3. The Guarantor shall be jointly and severally responsible to BHAGYANAGAR Gas for satisfactory performance of works during contract period and for the satisfactory execution of the contract, and for all consequences for non-performance thereof.
4. The liability of the Guarantor, under the Guarantee, is limited of the Bidder for non-performance under the contract entered between BHAGYANAGAR Gas and the Bidder. This will, however, be in addition to the forfeiture of the Performance and Advance Guarantees furnished by the Bidder.
5. The Guarantor agrees to execute a Corporate Guarantee in favour of BHAGYANAGAR Gas, guaranteeing the performance of obligations by the Bidder, in case the Contract is awarded to the Bidder by BHAGYANAGAR Gas.
6. The Guarantor represents that this Guarantee has been issued after due observance of the appropriate laws in force in India. The Guarantor hereby undertakes that the Guarantor shall obtain and maintain in full force and effect all the governmental and other approvals and consents that are necessary and do all other acts and things necessary or desirable in connection therewith or for the due performance of the Guarantor's obligations towards BHAGYANAGAR Gas.
7. Any dispute arising out of or in connection with this contract, including any question regarding its existence, validity or termination, shall be referred to and finally resolved by arbitration. It is further agreed that Claims by and against the Guarantor, the Bidder and BHAGYANAGAR Gas under the different contract to be entered pursuant to their relationship can be brought under a single reference and there shall be no bar on the consolidation of such proceedings before the same arbitral tribunal. The governing law shall be the laws of India and seat of arbitration shall be Hyderabad, India. The language of arbitration shall be English.
8. The Guarantor hereby declares and represents that this Guarantee has been given without any undue influence or coercion, and that the Guarantor has fully understood the implications of the same.
9. In case of award of contract to the bidder, the Guarantor shall provide Performance Bank Security to BHAGYANAGAR Gas, equivalent to 50% of the value of Performance Bank Security to be submitted by the bidding company, in the prescribed format within 15 days from the date of Fax of Acceptance, as guarantee for performance by the bidder/contractor. The Guarantor hereby expressly agrees that if in the opinion of BHAGYANAGAR Gas, the

(Sign & Seal of Bidder)



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Bidder / Contractor has failed to perform its obligations under the contract in any manner, BHAGYANAGAR Gas shall have unfettered right to invoke the said Bank guarantee. The guarantor hereby agrees that decision of BHAGYANAGAR Gas about performance of the bidder / contractor shall be final and shall not be questioned by the Guarantor. Guarantor shall have no objection to invocation of the Performance Bank Guarantee submitted by the Guarantor.

OR

(applicable, subject to meeting the conditions stipulated in BEC in respect of additional Performance Bank Security)

In case of award of contract to the bidder, the bidder on behalf of the Guarantor shall provide additional Performance Bank Security to BHAGYANAGAR Gas, equivalent to 50% of the value of Performance bank Security to be submitted by the bidding company, in the prescribed format within 15 days from the date of Fax of Acceptance, as guarantee for performance by the bidder/contractor. The Guarantor hereby expressly agrees that if in the opinion of BHAGYANAGAR Gas, the Bidder / Contractor has failed to perform its obligations under the contract in any manner, BHAGYANAGAR Gas shall have unfettered right to invoke the said Bank guarantee. The Guarantor hereby agrees that decision of BHAGYANAGAR Gas about performance of the bidder / contractor shall be final and shall not be questioned by the Guarantor. Guarantor shall have no objection to invocation of the Performance Bank Security submitted by the Bidder on behalf The Guarantor represents and confirms that the Guarantor has the legal capacity, power and authority to issue this Guarantee and that giving of this Guarantee and the performance and observations of the obligations hereunder do not contravene any existing laws.

(Strike through the clause whichever is not applicable)

10. The Guarantor represents and confirms that the Guarantor has the legal capacity, power and authority to issue this Guarantee and that giving of this Guarantee and the performance and observations of the obligations hereunder do not contravene any existing laws.

For & on behalf of (Supporting Company)

M/s \_\_\_\_\_

Signature \_\_\_\_\_

Name \_\_\_\_\_

Designation \_\_\_\_\_

Official seal \_\_\_\_\_

Witness:

1. Signature \_\_\_\_\_

Full Name \_\_\_\_\_

Address \_\_\_\_\_

2. Signature \_\_\_\_\_

Full Name \_\_\_\_\_

Address \_\_\_\_\_

(Sign & Seal of Bidder)



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**INSTRUCTIONS FOR FURNISHING GUARANTEE**

The official(s) executing the guarantee should affix full signature(s) on each page.

1. Resolution passed by Board of Directors of the guarantor company authorizing the signatory(ies) to execute the guarantee, duly certified by Company Secretary should be furnished along with Guarantee.

(Sign & Seal of Bidder)



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**Appendix-A2A to Annexure-A**

**CERTIFICATE ISSUED BY COMPANY SECRETARY OF THE GUARANTOR  
COMPANY**

“Obligations contained in deed of guarantee No. \_\_\_\_\_ furnished against tender No. \_\_\_\_\_ are enforceable against the Guarantor Company and the same do not, in any way, contravene any law of the country of which the Guarantor Company is the subject.”

The above certificate should be enclosed along with the Guarantee.

(Sign & Seal of Bidder)



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(Sign & Seal of Bidder)



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**Appendix-A3 to Annexure-A**

**PROFORMA OF "BANK GUARANTEE" TOWARDS PERFORMANCE SECURITY BY  
FOREIGN BASED SUPPORTING COMPANY OF THE BIDDING COMPANY**

**CONTRACT PERFORMANCE SECURITY / SECURITY DEPOSIT**

**(ON NON-JUDICIAL STAMP PAPER OF APPROPRIATE VALUE)**

To,

M/s BHAGYANAGAR Gas Limited  
\_\_\_\_\_

**Dear Sir(s),**

M/s. \_\_\_\_\_ having registered office at \_\_\_\_\_ (herein after called the "CONTRACTOR/SUPPLIER/SERVICE PROVIDER" which expression shall wherever the context so require include its successors and assignees) have been placed/ awarded the job/work of \_\_\_\_\_ vide PO/LOA /FOA No. \_\_\_\_\_ dated \_\_\_\_\_ (herein after called CONTRACT/ ORDER) for BHAGYANAGAR Gas Limited having registered office at 2<sup>nd</sup> Floor, APIDC Building, Parishram Bhavan, Basheer Bagh, Hyderabad – 500004 (herein after called the "BHAGYANAGAR Gas" which expression shall wherever the context so require include its successors and assignees).

Further, M/s \_\_\_\_\_ (Name of the Supporting company) having its registered/head office at \_\_\_\_\_ based on whose experience/technical strength, the CONTRACTOR/SUPPLIER/SERVICE PROVIDER has qualified for award of contract (hereinafter referred to as the 'SUPPORTING COMPANY') which expression shall, unless repugnant to the context or meaning thereof include all its successors, administrators, executors and assignees) has agreed to provide complete technical and other support to the CONTRACTOR/SUPPLIER/SERVICE PROVIDER for successful completion of the contract/order as mentioned above, entered between BHAGYANAGAR Gas and the CONTRACTOR/SUPPLIER/SERVICE PROVIDER and BHAGYANAGAR Gas having agreed that the 'SUPPORTING COMPANY' shall furnish to BHAGYANAGAR Gas a performance guarantee for Indian Rupees/US\$ ..... towards providing complete financial and other support to the CONTRACTOR/SUPPLIER/SERVICE PROVIDER for successful completion of the contract/order as mentioned above.

The said M/s. \_\_\_\_\_ (Supporting Company) has approached us and at their request and in consideration of the premises we having our office at \_\_\_\_\_ have agreed to give such guarantee as hereinafter mentioned.

(Sign & Seal of Bidder)

1. We (name of the bank) \_\_\_\_\_ registered under the laws of \_\_\_\_\_ having head/registered office at \_\_\_\_\_ (hereinafter referred to as "the Bank", which expression shall, unless repugnant to the context or meaning thereof, include all its successors, administrators, executors and permitted assignees) do hereby guarantee and undertake to pay immediately on first demand in writing any/all moneys to the extent of Indian Rs./US\$ (in figures) \_\_\_\_\_ (Indian Rupees/US Dollars (in words) \_\_\_\_\_) without any demur, reservation, contest or protest and/or without any reference to the 'SUPPORTING COMPANY'. Any such demand made by BHAGYANAGAR Gas on the Bank by serving a written notice shall be conclusive and binding, without any proof, on the bank as regards the amount due and payable, notwithstanding any dispute(s) pending before any Court, Tribunal, Arbitrator or any other authority and/or any other matter or thing whatsoever, as liability under these presents being absolute and unequivocal. We agree that the guarantee herein contained shall be irrevocable and shall continue to be enforceable until it is discharged by BHAGYANAGAR Gas in writing. This guarantee shall not be determined, discharged or affected by the liquidation, winding up, dissolution or insolvency of the 'SUPPORTING COMPANY' and shall remain valid, binding and operative against the bank.
2. The Bank also agrees that BHAGYANAGAR Gas at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance, without proceeding against the 'SUPPORTING COMPANY' and notwithstanding any security or other guarantee that BHAGYANAGAR Gas may have in relation to the 'SUPPORTING COMPANY's liabilities.
3. The Bank further agrees that BHAGYANAGAR Gas shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said CONTRACT/ORDER or to extend time of performance by the said CONTRACTOR/SUPPLIER/SERVICE PROVIDER from time to time or to postpone for any time or from time to time exercise of any of the powers vested in BHAGYANAGAR Gas against the said CONTRACTOR/SUPPLIER/SERVICE PROVIDER and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said CONTRACTOR/SUPPLIER/SERVICE PROVIDER or for any forbearance, act or omission on the part of BHAGYANAGAR Gas or any indulgence by BHAGYANAGAR Gas to the said CONTRACTOR(s) or any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.
4. The Bank further agrees that the Guarantee herein contained shall remain in full force during the period that is taken for the performance of the CONTRACT/ORDER and all dues of BHAGYANAGAR Gas under or by virtue of this CONTRACT/ORDER have been fully paid and its claim satisfied or discharged or till BHAGYANAGAR Gas discharges this guarantee in writing, whichever is earlier.

(Sign & Seal of Bidder)



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5. This Guarantee shall not be discharged by any change in our constitution, in the Constitution of BHAGYANAGAR Gas or that of the 'SUPPORTING COMPANY'.
6. The Bank confirms that this guarantee has been issued with observance of appropriate laws of the country of issue.
7. The Bank also agrees that this guarantee shall be governed and construed in accordance with Indian Laws and subject to the exclusive jurisdiction of Indian Courts of the place from where the purchase CONTRACT/ORDER has been placed.
8. Notwithstanding anything contained hereinabove, our liability under this Guarantee is limited to Indian Rs./US\$ (in figures) \_\_\_\_\_ (Indian Rupees/US Dollars (in words) \_\_\_\_\_ only) and our guarantee shall remain in force until (indicate the date of expiry of bank guarantee) \_\_\_\_\_.
9. We have power to issue this guarantee in your favor under Memorandum and Articles of Association and the undersigned has full power to do under the Power of Attorney, dated \_\_\_\_\_ granted to him by the Bank.
10. Notwithstanding anything contained herein:
  - a) The Bank's liability under this Guarantee shall not exceed (currency in figures) . . . . . (currency in words only ) . . . . .
  - b) This Guarantee shall remain in force upto \_\_\_\_\_ (this date should be expiry date of defect liability period of the Contract) and any extension(s) thereof; and
  - c) The Bank shall be released and discharged from all liability under this Guarantee unless a written claim or demand is issued to the Bank on or before the midnight of .....(indicate date of expiry of claim period which includes minimum three months from the expiry of this Bank Guarantee) and if extended, the date of expiry of the last extension of this Guarantee. If a claim has been received by us within the said date, all the rights of BGL under this Guarantee shall be valid and shall not cease until we have satisfied that claim.

Details of next Higher Authority of the Officials who have issued the Bank Guarantee:

Name .....

Designation .....

Yours faithfully,

\_\_\_\_\_  
Bank by its Constituted Attorney

Signature of a person duly  
Authorized to sign on behalf of the Bank

(Sign & Seal of Bidder)



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**INSTRUCTIONS FOR FURNISHING  
"CONTRACT PERFORMANCE SECURITY / SECURITY DEPOSIT" BY "BANK  
GUARANTEE"**

1. The Bank Guarantee by successful Bidder(s) will be given on non-judicial stamp paper as per 'stamp duty' applicable. The non-judicial stamp paper should be in name of the issuing bank. In the case of a foreign bank, the said Bank Guarantee to be issued by its correspondent bank in India on requisite non-judicial stamp paper and place of Bid to be considered as Hyderabad.
2. The Bank Guarantee by Bidders will be given from the bank as specified in Tender.
3. A letter from the issuing bank of the requisite Bank Guarantee confirming that said Bank Guarantee and all future communication relating to the Bank Guarantee
4. If a Bank Guarantee is issued by a commercial bank, then a letter to Purchaser and copy to Consultant (if applicable) confirming its net worth is more than Rs. 100,00,00,000.00 [Rupees One Hundred Crores] or it's equivalent in foreign currency along with documentary evidence.

**MATTER TO BE MENTIONED IN COVERING LETTER TO BE SUBMITTED BY  
VENDOR ALONG WITH BANK GUARANTEE**

1	<b>BANK GUARANTEE NO</b>	:				
2	<b>VENDOR NAME / VENDOR CODE</b>	:	<b>NAME</b>			
			<b>VENDOR CODE</b>			
3	<b>BANK GUARANTEE AMOUNT</b>	:				
4	<b>PURCHASE ORDER/ LOA NO</b>	:				
5	<b>NATURE OF BANK GUARANTEE</b>	:				
	<b>(Please Tick (√) Whichever is Applicable</b>		<b>PERFORMANCE BANK GUARANTEE</b>	<b>SECURITY DEPOSIT</b>	<b>EMD</b>	<b>ADVANCE</b>
6	<b>BG ISSUED BANK DETAILS</b>	(A)	<b>EMAIL ID</b>	:		
		(B)	<b>ADDRESS</b>	:		
		(C)	<b>PHONE NO</b>	:		
7	<b>BG CONFIRMATION BANK DETAILS</b>	(A)	<b>EMAIL ID</b>	:		
		(B)	<b>ADDRESS</b>	:		
		(C)	<b>PHONE NO</b>	:		

(Sign & Seal of Bidder)

**Annexure-B**

**GUIDELINES REGARDING PROVISIONS FOR PROCUREMENT FROM A BIDDER WHICH SHARES A LAND BORDER WITH INDIA**

1. Order (Public Procurement No. 1) dated 23.07.2020, Order (Public Procurement No. 2) dated 23.07.2020 and Order (Public Procurement No. 3) dated 24.07.2020, Department of Expenditure, Ministry of Finance, Govt. of India refers. The same are available at website <https://doe.gov.in/procurement-policy-divisions>.
2. Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. For details of competent authority refer to Annexure I of Order (Public Procurement no. 4) dated 23.02.2023.

Further, any bidder (including bidder from India) having specified Transfer of Technology (ToT) arrangement with an entity from a country which shares a land border with India, shall also require to be registered with the same competent authority.

Further the above will not apply to bidders from those countries (even if sharing a land border with India) to which the Government of India has extended lines of credit or in which the Government of India is engaged in development projects. Updated lists of countries to which lines of credit have been extended or in which development projects are undertaken are given in the website of the Ministry of External Affairs, Govt. of India

3. "**Bidder**" (including the term 'tenderer', 'consultant' 'vendor' or 'service provider' in certain contexts) for purpose of this provision means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency, branch or office controlled by such person, participating in a procurement process.
4. "Bidder from a country which shares a land border with India" for the purpose of this:
  - a. An entity incorporated, established or registered in such a country; or
  - b. A subsidiary of an entity incorporated, established or registered in such a country; or
  - c. An entity substantially controlled through entities incorporated, established or registered in such a country; or
  - d. An entity whose beneficial owner is situated in such a country; or
  - e. An Indian (or other) agent of such an entity; or
  - f. A natural person who is a citizen of such a country; or
  - g. A consortium or joint venture where any member of the consortium or joint venture falls under any of the above.
5. "**Beneficial owner**" for the purpose of above (4) will be as under:
  - i) In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical

(Sign & Seal of Bidder)

person(s), has a controlling ownership interest or who exercises control through other means.

Explanation—

- a) "Controlling ownership interest" means ownership of, or entitlement to, more than twenty-five per cent of shares or capital or profits of the company;
  - b) "Control" shall include the right to appoint the majority of the directors or to control the management or policy decisions, including by virtue of their shareholding or management rights or shareholders agreements or voting agreements;
  - ii) In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership;
  - iii) In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individuals;
  - iv) Where no natural person is identified under (i) or (ii) or (iii) above, the beneficial owner is the relevant natural person who holds the position of senior managing official;
  - v) In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.
6. "**Agent**" for the purpose of this Order is a person employed to do any act for another, or to represent another in dealings with third persons

Note :

- (i) A person who procures and supplies finished goods from an entity from a country which shares a land border with India will, regardless of the nature of his legal or commercial relationship with the producer of the goods, be deemed to be an Agent for the purpose of this Order.
  - (ii) However, a bidder who only procures raw material, components etc. from an entity from a country which shares a land border with India and then manufactures or converts them into other goods will not be treated as an Agent.]
7. "**Transfer of Technology**" means dissemination and transfer of all forms of commercially usable knowledge such as transfer of know-how, skills, technical expertise, designs, processes and procedures, trade secrets, which enables the acquirer of such technology to perform activities using the transferred technology independently. (Matters of interpretation of this term shall be referred to the Registration Committee constituted by

(Sign & Seal of Bidder)

the Department for Promotion of Industry and Internal Trade, and the interpretation of the Committee shall be final.)

- (iii) "**Specified Transfer of Technology**" means a transfer of technology in the sectors and/or technologies, specified at Schedule-I, II & 3 of this order.

**5. SUBMISSION OF CERTIFICATE IN BIDS:**

Bidder shall submit a certificate in this regard as Form-I.

For cases falling under the category of Transfer of Technology, Bidder shall submit a certificate in this regard as Form-I-B

If such certificate given by a bidder whose bid is accepted is found to be false, this would be a ground for immediate rejection of the bid/termination and further action as per "Procedure for Action in case of Corrupt/Fraudulent/ Collusive / Coercive Practices" of tender document.

The registration, wherever applicable, should be valid at the time of submission of bids and at the time of acceptance of bids. In respect of supply otherwise than by tender, registration should be valid at the time of placement of order. If the bidder was validly registered at the time of acceptance / placement of order, registration shall not be a relevant consideration during contract execution.

**6. PROVISION TO BE IN WORKS CONTRACTS, INCLUDING TURNKEY CONTRACTS:**

The successful bidder shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority. The definition of "contractor from a country which shares a land border with India" shall be as in Para 4 herein above. A Certificate to this regard is to be submitted by bidder is placed at Form-II.

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(Sign & Seal of Bidder)



**Tender for Procurement of Turbine Flow Meter (Custody Meter)  
and EVC at Mother Station to get 4-20 mA flow signal to automize  
Odorization Unit at Vijayawada GA  
Bid Document No: BGL/713/2025-26**

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**Form-I to Annexure-B**

**UNDERTAKING ON LETTERHEAD**

To,

M/s BHAGYANAGAR GAS LIMITED  
\_\_\_\_\_

SUB:

TENDER NO:

Dear Sir,

We have read the clause regarding Provisions for Procurement from a Bidder which shares a land border with India, we certify that, bidder M/s \_\_\_\_\_ (*Name of Bidder*) is :

- (i) Not from such a country
- (ii) If from such a country, has been registered   
with the Competent Authority.  
(Evidence of valid registration by the  
Competent Authority shall be attached)

***(Bidder is to tick appropriate option (✓ or X) above).***

We hereby certify that bidder M/s \_\_\_\_\_ (*Name of Bidder*) fulfills all requirements in this regard and is eligible to be considered against the tender.

Place: [Signature of Authorized Signatory of Bidder]  
Date: Name:  
Designation:  
Seal:

(Sign & Seal of Bidder)



**Tender for Procurement of Turbine Flow Meter (Custody Meter)  
and EVC at Mother Station to get 4-20 mA flow signal to automize  
Odorization Unit at Vijayawada GA  
Bid Document No: BGL/713/2025-26**

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**Form-II to Annexure-B**

**CERTIFICATE FOR TENDERS FOR WORKS INVOLVING POSSIBILITY OF  
SUB-CONTRACTING**

To,

M/s BHAGYANAGAR GAS LIMITED  
\_\_\_\_\_

SUB:

TENDER NO:

Dear Sir

We have read the clause regarding Provisions for Procurement from a Bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries; we certify that, bidder M/s \_\_\_\_\_ (*Name of Bidder*) is:

- (i) not from such a country
- (ii) if from such a country, has been registered   
with the Competent Authority.  
(Evidence of valid registration by the  
Competent Authority shall be attached)

*(Bidder is to tick appropriate option (✓ or X) above).*

We further certify that bidder M/s \_\_\_\_\_ (*Name of Bidder*) will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority.

We hereby certify that bidder M/s \_\_\_\_\_ (*Name of Bidder*) fulfills all requirements in this regard and is eligible to be considered.

Place: [Signature of Authorized Signatory of Bidder]  
Date: Name:  
Designation:  
Seal:

(Sign & Seal of Bidder)

**Schedule I**

List of Category-I Sensitive sectors:

Sr. No.	Sector
(i)	Atomic Energy
(ii)	Broadcasting/ Print and Digital Media
(iii)	Defense
(iv)	Space
(v)	Telecommunications

**Schedule II**

List of Category-II Sensitive sectors:

Sr.No.	Sector
(i)	Power and Energy (including exploration/ generation/transmission/ distribution/ pipeline)
(ii)	Banking and Finance including Insurance
(iii)	Civil Aviation
(iv)	Construction of ports and dams & river valley projects
(v)	Electronics and Microelectronics
(vi)	Meteorology and Ocean Observation
(vii)	Mining and extraction (including deep sea projects)
(viii)	Railways
(ix)	Pharmaceuticals & Medical Devices
(x)	Agriculture
(xi)	Health
(xii)	Urban Transportation

**Schedule III**

List of Sensitive Technologies:

Sr.No.	Sensitive Technologies
(i)	Additive Manufacturing (e.g. 3D Printing)
(ii)	Any equipment having electronic programmable components or autonomous systems (e.g. SCADA systems)
(iii)	Any technology used for uploading and streaming of data including broadcasting, satellite communication etc.
(iv)	Chemical Technologies
(v)	Biotechnologies including Genetic Engineering and Biological Technologies
(vi)	Information and Communication Technologies
(vii)	Software

(Sign & Seal of Bidder)

**Annexure-C**

**POLICY TO PROVIDE PURCHASE PREFERENCE AS PER PUBLIC  
PROCUREMENT (PREFERENCE TO MAKE IN INDIA), ORDER 2017**

- 1.0 Ministry of Petroleum & Natural Gas vide Notification No. FP-20013/2/2017-FPPNG-Part (4) (E-17013) dated 21.08.2024 has notified the Public Procurement (Preference to Make in India), Order 2017 (PPP-MII)-Revision issued by DPIIT on 19.07.2024.

The following modifications as per Notification No. FP-20013/2/2017-FP-PNG-Part(4) (E-41432) dated 26.04.2022 from MoP&NG and incorporated in Para 1.0 above shall continue:

- Limit for exemption of small purchase under para 4 of the PPP-MII Order, 2017 shall be Rs. 1 Crore.
- HP-HT operation in upstream oil and gas turbines activities shall be exempted from applicability of the Order.

Whereas, in respect of Local value addition through services, as per communication no. F.No. FP-200 I 312120 I7-FP-PNG-Part (4) (E-41432) dated 26.03.2024 of MoP&NG, the same is modified as under:

Local Value addition through services such as transportation, insurance, installation, commissioning, training and after sales services support like AMC/CMC etc. shall continue to be considered in local content calculation and the scope of this relaxation shall be limited to the items (as per list enclosed) to be installed/operated in flammable environment of Oil and Gas processing industry.

- 2.0 The Public Procurement (Preference to Make in India), Order 2017 (PPP-MII) issued by DPIIT to encourage 'Make in India' and promote manufacturing & production of goods and services in India with a view to enhancing income and employment.

3.0 **DEFINITIONS:-**

- (i) **Local Content** means the amount of value added in India which shall, unless otherwise prescribed by the Nodal Ministry, be the total value of item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all custom duties) as a proportion of the total value, in percent.

Local value addition through services such as transportation, insurance, installation, commissioning, training, and after sale support like AMC/CMC etc. shall be considered in local content calculation and the scope of this relaxation shall be limited to the items (as per list enclosed) to be installed/operated in flammable environment of Oil and Gas processing industry.

(Sign & Seal of Bidder)

Explanatory notes for calculation of local content given below:

- a) Imported items sourced locally from resellers/distributors shall be excluded from calculation of local content.
- b) The license fees/royalties paid/ technical charges paid out of India shall be excluded from local content calculation.
- c) Procurement/Supply of repackaged/refurbished/rebranded imported products as understood commonly shall be treated as reselling of imported products and shall be excluded from calculation of local content. The definition of repackaged/refurbished/rebranded imported products is as follows:

'Refurbishing' means repair or reconditioning of an imported product does not amount to manufacture because no new goods come into existence.

'Repackaging' means repacking of imported goods from bulk pack to smaller packs would not ordinarily amount to manufacture of a new item.

'Rebranding' means relabeling or renaming or change in symbol or logo/ makes or corporate image of a company/ organization/ firm for an imported product would amount to rebranding.

- a) To ensure that imported items sourced locally from resellers/distributors are excluded from calculation of local content, procuring entities to obtain from bidders, the cost of such locally-sourced imported items (Inclusive of taxes) along with break-up on license/royalties paid/technical expertise cost etc. sourced from outside India. For items sold by bidder as reseller, OEM certificate for country of origin to be submitted.
  - b) For contracts involving supply of multiple items, weighted average of all items to be taken while calculating the local content.
- (ii) **'Class-I local supplier'** means a supplier or service provider, whose goods, services or works offered for procurement, meets the minimum local content of equal to or more than 50%.

**'Class-II local supplier'** means a supplier or service provider, whose goods, services or works offered for procurement, meets the minimum local content of more than 20% but less than 50%.

**'Non - Local supplier'** means a supplier or service provider, whose goods, services or works offered for procurement, has local content less than or equal to 20%.

(Sign & Seal of Bidder)

- (iii) **L1** mean the lowest tender or lowest bid or the lowest quotation received in a tender, bidding process or other procurement solicitation as adjudged in the evaluation process as per tender or other procurement solicitation.
- (iv) **Margin of Purchase Preference:** means the maximum extent to which the price quoted by a Class-I local supplier may be above the L1 for purpose of purchase Preference.
- (v) **Nodal Ministry** means the Ministry of Petroleum & Natural Gas
- (vi) **Procuring Entity** means Bhagyanagar Gas Limited. (BGL)
- (i) **Works** means all the works as per Rule 130 of GFR-2017 also include 'turnkey works'

### **3A Special treatment for items covered under PLI Scheme**

The manufacturers manufacturing an item under PLI scheme shall be treated as deemed Class II local supplier for that item unless they have minimum local content equal to or higher than that notified for Class-I local supplier for that item, provided the manufacturer has received incentive from the concerned PLI Ministry for the Item. The above shall be applicable for the specific time period only, as notified by concerned PLI Ministry.

4.0 **Margin of Purchase Preference:** The margin of purchase preference shall be 20%.

### **5.0 ELIGIBILITY OF 'CLASS-I LOCAL SUPPLIER'/ 'CLASS-II LOCAL SUPPLIER'/ 'NON-LOCAL SUPPLIERS' FOR DIFFERENT TYPES OF PROCUREMENT**

- (a) In procurement of all goods, services or works in respect of which the Nodal Ministry / Department has communicated that there is sufficient local capacity and local competition, only 'Class-I local supplier', shall be eligible to bid irrespective of purchase value.
- (b) Only 'Class-I local supplier' and 'Class-II local supplier', shall be eligible to bid in procurements undertaken by procuring entities, except when Global tender enquiry/ International Competitive bidding has been issued. In global tender enquiries/ International Competitive bidding 'Non local suppliers' shall also be eligible to bid along with 'Class-I local suppliers' and 'Class-II local suppliers'.
- (c) Works includes Engineering, Procurement and Construction (EPC) contracts and services include System Integrator (SI) contracts

(Sign & Seal of Bidder)

- (d) HP-HT Operations in upstream oil and gas business activities shall be exempted from this order.

**6.0 MANDATORY SOURCING OF ITEMS, WITH SUFFICIENT LOCAL CAPACITY AND COMPETITION, FROM CLASS-I LOCAL SUPPLIERS IN SI/EPC/TURNKEY CONTRACTS/SERVICE TENDERS**

- (a) The items, notified as having sufficient local capacity and competition, shall mandatory be sourced from Class-I local suppliers in SI/EPC/Turnkey Contracts/ Services tenders. This provision will be applicable only for those items which have been notified by the Nodal Ministry as Class I i.e. having sufficient local capacity and competition, with specific HSN codes."
- (b) Notwithstanding above, if in any project, it is considered that it is not practically feasible to source such items from Class I local suppliers, it may take relaxation from such stipulation with the approval of Secretary of the administrative Ministry/ Department concerned or with the approval of the Competent Authority specified by the Administrative Ministry/Department, on case-specific basis.

**7.0 PURCHASE PREFERENCE METHODOLOGY UNDER PPP-MII**

- (a) Purchase preference shall be given to 'Class-I local supplier' in procurements in the manner specified here under.
- (b) In the procurements of goods or works which are cover by para 5 (b) above and which are divisible in nature, the 'Class-I local supplier' shall get purchase preference over 'Class-II local supplier' as well as 'Non-local supplier', as per following procedure:
- i. Among all qualified bids, the lowest bid will be termed as L1. If L1 is 'Class-I local supplier', the contract for full quantity will be awarded to L1.
  - ii. If L1 bid is not a 'Class-I local supplier', 50% of the order quantity shall be awarded to L1. Thereafter, the lowest bidder among the 'Class-I local supplier' will be invited to match the L1 price for the remaining 50% quantity subject to the Class-I local supplier's quoted price falling within the margin of purchase preference, and contract for that quantity shall be awarded to such 'Class-I local supplier' subject to matching the L1 price. In case such lowest eligible 'Class-I local supplier' fails to match the L1 price or accepts less than the offered quantity, the next higher 'Class-I local supplier' within the margin of purchase preference shall be invited to match the L1 price for remaining quantity and so on, and contract shall be awarded accordingly. In case some quantity is still left uncovered on

(Sign & Seal of Bidder)

Class-I local suppliers, then such balance quantity may also be ordered on the L1 bidder.

(c) In the procurements of goods or works which are covered by para 5 (b) and which are not divisible in nature, and in procurement of services where the bid is evaluated on price alone, the 'Class-I local supplier' shall get purchase preference over 'Class-II local supplier' as well as 'Non-local supplier', as per following procedure:

- i. Among all qualified bids, the lowest bid will be termed as L1. If L1 is 'Class-I local supplier', the contract will be awarded to L1.
- ii. If L1 is not 'Class-I local supplier', the lowest bidder among the 'Class-I local supplier', will be invited to match the L1 price subject to Class-I local supplier's quoted price falling within the margin of purchase preference, and the contract shall be awarded to such 'Class-I local supplier' subject to matching the L1 price.
- iii. In case such lowest eligible 'Class-I local supplier' fails to match the L1 price, the 'Class-I local supplier' with the next higher bid within the margin of purchase preference shall be invited to match the L1 price and so on and contract shall be awarded accordingly. In case none of the 'Class-I local supplier' within the margin of purchase preference matches the L1 price, the contract may be awarded to the L1 bidder.
- iii. "Class-II local supplier" will not get purchase preference in any procurement.

d) **Applicability in tenders where contract is to be awarded to multiple bidders** - In tenders where contract is awarded to multiple bidders subject to matching of L1 rates or otherwise, the 'Class-I local supplier' shall get purchase preference over 'Class II- local supplier' as well as 'Non-local supplier', as per following procedure:

- i) If 'Class-I Local suppliers' qualify for award of contract for at least 50% of the tendered quantity in any tender, the contract may be awarded to all the qualified bidders as per award criteria stipulated in the bid documents. However, in case 'Class -I Local suppliers' do not qualify for award of contract for at least 50% of the tendered quantity, purchase preference should be given to the 'Class-I local supplier' over 'Class-II local suppliers'/'Non local suppliers' provided that their quoted rate falls within 20% margin of purchase preference of the highest quoted bidder considered for award of contract so as to ensure that the 'Class-I Local suppliers' taken in totality are considered for award of contract for at least 50% of the tendered quantity.

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- ii) First purchase preference has to be given to the lowest quoting 'Class-I local supplier', whose quoted rates fall within 20% margin of purchase preference, subject to its meeting the prescribed criteria for award of contract as also the constraint of maximum quantity that can be sourced from any single supplier. If the lowest quoting 'Class-I local supplier', does not qualify for purchase preference because of aforesaid constraints or does not accept the offered quantity, an opportunity may be given to next higher 'Class-I local supplier', falling within 20% margin of purchase preference, and so on.

**8.0 EXEMPTION IN SOURCING OF SPARES AND CONSUMABLES OF CLOSED SYSTEMS FOR PURCHASE PREFERENCE**

Procurement of spare parts/consumables and Maintenance/ Service contracts with Original Equipment Manufacturer/Original Equipment Supplier/Original Part Manufacturer shall be exempted from this Order.

**9.0 VERIFICATION OF LOCAL CONTENT/ DOMESTIC VALUE ADDITION**

- a. The 'Class-I local supplier'/ 'Class-II local supplier' at the time of tender, bidding or solicitation shall require to indicate percentage of local content and provide self-certification (as per proforma at Form-2) that the item offered meets the minimum local content for 'Class-I local supplier'/ 'Class-II local supplier' as the case may be and shall give details of the location(s) at which the local value addition is made.
- b. In cases of procurement for a value in excess of Rs. 10 crores, in addition to Form-2 'Class-I local supplier'/ 'Class-II local supplier' shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content as per proforma at Form -3.
- c. In case a complaint is received by the procuring agency relating to implementation of this order including the claim of a bidder regarding local content/ domestic value addition, the same shall be referred to Competent Authority who is empowered to look into procurement related complaints.
- d. Nodal Ministry may constitute committees with internal and external experts for independent verification of self-declarations and auditor's/accountant's certificates on random basis and in the case of complaints. A complaint fee of Rs.2 Lakh or 1% of the value of the domestically manufactured products being procured (subject to a maximum

(Sign & Seal of Bidder)

of Rs. 5 Lakh), whichever is higher, shall be paid by Demand Draft to be deposited with BGL. In case, the complaint is found to be incorrect, the complaint fee shall be forfeited. In case, the complaint is upheld and found to be substantially correct, deposited fee of the complainant would be refunded without any interest.

- e. In case of false declarations, BGL shall initiate action for banning such manufacturer/supplier/service provider as per as per BGL extant “Procedure for action in case Corrupt/Fraudulent/Collusive/Coercive Practices”
- f. A supplier who has been debarred by any procuring entity for violation of this Order shall not be eligible for preference under this Order for procurement by any other procuring entity for the duration of the debarment. The debarment for such other procuring entities shall take effect prospectively from the date on which it comes to the notice of other procurement entities, in the manner prescribed under paragraph g below.
- g. The Department of Expenditure shall issue suitable instructions for the effective and smooth operation of this process, so that:
  - i. The fact and duration of debarment for violation of this Order by any procuring entity are promptly brought to the notice of the Member-Convenor of the Standing Committee and the Department of Expenditure through the concerned Ministry /Department or in some other manner;
  - ii. on a periodical basis such cases are consolidated and a centralized list or decentralized lists of such suppliers with the period of debarment is maintained and displayed on website(s);
  - iii. in respect of procuring entities other than the one which has carried out the debarment, the debarment takes effect prospectively from the date of uploading on the website(s) in the such a manner that ongoing procurements are not disrupted.

(Sign & Seal of Bidder)



**Tender for Procurement of Turbine Flow Meter (Custody Meter) and EVC at Mother Station to get 4-20 mA flow signal to automatize Odorization Unit at Vijayawada GA**  
**Bid Document No: BGL/713/2025-26**

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**FORM-1 to Annexure C**

**SELF CERTIFICATION BY BIDDER WHO CLASS-I LOCAL SUPPLIER/ CLASS-II LOCAL SUPPLIER TOWARDS MANDATORY MINIMUM LOCAL CONTENT/ DOMESTIC VALUE ADDITION**

To,

M/s BHAGYANAGAR GAS LIMITED

SUB:

TENDER NO:

Dear Sir

We, M/s.....(**Name of Bidder**) confirm that as per the definition of policy we are:

Class-I Local supplier [        ]

Class-II Local Supplier [        ]

**(Bidder is to tick appropriate option (  ) above).**

It is further confirm that M/s        (**Name of Bidder**) meet the mandatory minimum Local content/Domestic Value Addition requirement for Class-I Local supplier/ Class-II Local supplier (as the case may be) under Public Procurement (Preference to Make in India), Order 2017 (PPP-MII) and has value addition of        %.

The details of the location (s) at which the local value addition is made is as under:

.....  
.....  
.....

We further confirm that in case we fail to meet the minimum local content/domestic value addition, the same shall be treated false information and BGL will take action as per provision of tender document.

Place:

[Signature of Authorized Signatory of Bidder]

Date:

Name:

Designation:

Seal:

(Sign & Seal of Bidder)



**Tender for Procurement of Turbine Flow Meter (Custody Meter) and EVC at Mother Station to get 4-20 mA flow signal to automize Odorization Unit at Vijayawada GA**  
**Bid Document No: BGL/713/2025-26**

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**FORM-2 to Annexure C**

**CERTIFICATE BY STATUTORY AUDITOR/COST AUDITOR/ CHARTERED ACCOUNTANT OF BIDDER TOWARDS MANDATORY MINIMUM LOCAL CONTENT/ DOMESTIC VALUE ADDITION**

**(IN CASE BIDDER IS CLASS-I LOCAL SUPPLIER/ CLASS-II LOCAL SUPPLIER)**

**Applicable for Procurement/Purchase value in excess of Rs.10 Crores**

To,

M/S BHAGYANAGAR GAS LIMITED

SUB:

TENDER NO:

Dear Sir

“We.....the statutory auditor/ cost auditor/chartered accountant (not an employee of the company) of M/s.\_\_\_\_\_(Name of the bidder) hereby certify that as per definition specified in policy, M/s.\_\_\_\_\_(Name of the bidder) is

Class-I Local supplier [ ]

Class-II Local Supplier [ ]

**(Bidder is to tick appropriate option (  ) above).**

It is further confirm that M/s\_\_\_\_\_(Name of Bidder) quoted vide offer No.\_\_\_\_\_  
dated\_\_\_\_\_against tender No.meet the mandatory minimum Local content/Domestic Value Addition requirement specified for Class-I Local supplier/ Class-II Local supplier (as the case may be) under Policy for Public Procurement (Preference to Make in India), Order 2017 (PPP-MII) and has value addition of.....% .

Name of Audit Firm:

[Signature of Authorized Signatory]

Date:

Name:

Designation:

Seal:

Membership no.

Note:

- (i) This certificate it to be furnished by the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies)
- (ii) The above format is indicative, the statutory auditor/ cost auditor/ cost accountant can modify the format without changing the intent of certification.

(Sign & Seal of Bidder)



**Tender for Procurement of Turbine Flow Meter (Custody Meter)  
and EVC at Mother Station to get 4-20 mA flow signal to automize  
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Bid Document No: BGL/713/2025-26**

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No.F.1/4/2021-PPD  
Government of India  
Ministry of Finance  
Department of Expenditure  
Public Procurement Division  
\*\*\*\*\*

264-C, North Block, New Delhi.  
18.05.2023.

**OFFICE MEMORANDUM**

**Subject: Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017.**

The undersigned is directed to refer two Preferential Procurement Orders mandated for the Public Procurement in India, namely:

- i. Public Procurement Policy for Micro and Small Enterprises (MSEs) Order dated 23.03.2012 (PPP-MSE Order) issued by Ministry of Micro, Small and Medium Enterprises (MoMSME) in exercise of the powers conferred in Section 11 of the MSME Development Act, 2006. (Last revised on 09.11.2018)
- ii. Public Procurement (Preference to Make in India) Order, 2017 (PPP-MII order), under Rule 153(iii) of the General Financial Rules (GFRs) 2017, approved by the Cabinet. Implementation of this PPP-MII order is monitored by Department for Promotion of Industry and Internal Trade (DPIIT). (Last revised on 16.09.2020.)

2. It has been brought to the notice of this Department that concurrent application of these two orders are creating confusion to the procuring entities and different procuring entities interpret them differently. In order to bring predictability both to the procuring entities as well as bidders, following guidelines are being issued.

**Guidelines**

3. The Class-I local suppliers, under PPP-MII Order, participating in any government tender, may or may not be MSEs, as defined under the MSME Act. Similarly, MSEs participating in any government tender, may or may not be Class-I local suppliers. Suppliers may be categorised in following four broad categories for consideration or applicability of purchase preference:

<b>Category</b>	<b>Terminology</b>
Supplier is both MSE & Class-I local supplier.	"MSE Class-I local supplier"
Supplier is MSE but not Class-I local supplier.	"MSE but non-Class-I local supplier"
Supplier is not MSE but is Class-I local supplier.	"Non-MSE but Class-I local supplier"
Supplier is neither MSE nor Class-I local.	"Non-MSE non-Class-I local supplier"

(Sign & Seal of Bidder)

4. The applicability of PPP-MSE Order and PPP-MII Order in various scenarios, involving simultaneous purchase preference to MSEs and Class-I local suppliers under PPP-MSE Order and PPP-MII Order respectively, shall be as under:
- a) *Items covered under Para 3(a) of PPP- MII Order, 2017 for which Nodal Ministry has notified sufficient local capacity and competition:* For these items, only Class-I local suppliers are eligible to bid irrespective of purchase value. Hence, Class-II local suppliers or Non-local suppliers, including MSEs which are Class-II local suppliers/ Non-local suppliers, are not eligible to bid. Possible scenarios can be as under:
- (i) L-1 is "MSE Class-I local supplier" - 100% of the tendered quantity is to be awarded to L-1.
  - (ii) L-1 is "Non-MSE but Class-I local supplier" - Purchase preference is given to MSEs as per PPP-MSE Order. Balance quantity is to be awarded to the L-1 bidder.
- b) *Items reserved exclusively for procurement from MSEs as per PPP-MSE Order:* These items are reserved exclusively for purchase from MSEs. Hence, non-MSEs are not eligible to bid for these items. Possible scenarios can be as under:
- (i) L-1 is "MSE Class-I local supplier" - 100% of the tendered quantity is to be awarded to L-1.
  - (ii) L-1 is "MSE non-Class-I local supplier" - Purchase preference is to be given to Class-I local supplier as per PPP-MII Order. Balance quantity, is to be awarded to L-1 bidder.
- c) *If items are neither notified for sufficient local capacity nor reserved for MSEs, then the process will be as follows:*
- c (a) Items covered under Para 3A(b) of PPP-MII Order are divisible items and both MSEs as well as Class-I local suppliers are eligible for purchase preference. Possible scenarios can be as under:
- (i) L-1 is "MSE Class-I local supplier" - 100% of the tendered quantity is to be awarded to L-1.
  - (ii) L-1 is "Non-MSE but Class-I local supplier" - Purchase preference is to be given to MSEs, if eligible, as per PPP-MSE Order. Balance quantity is to be awarded to L-1 bidder.
  - (iii) L-1 is "MSE but non-Class-I local supplier" - Purchase preference is to be given to Class-I local suppliers, if eligible, as per PPP-MII Order. Balance quantity is to be awarded to L-1 bidder.
  - (iv) L-1 is "Non-MSE non-Class-I local supplier" - Purchase preference is to be given to MSEs as per PPP-MSE Order. Thereafter, purchase preference is to be given to Class-I local suppliers for "50% of the tendered quantity minus quantity allotted to MSEs

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above” as per PPP- MII Order. For the balance quantity, contract is to be awarded to L-1 bidder. (Kindly refer to the illustrative example in the annexure).

- c (b) Items covered under Para 3A(c) of PPP-MII Order, 2017 are non-divisible items and both MSEs as well as Class-I local suppliers are eligible for purchase preference. Possible scenarios can be as under:
- (i) L-1 is “MSE Class-I local supplier” - Contract is awarded to L-1.
  - (ii) L-1 is not “MSE Class-I local supplier” but the “MSE Class-I local supplier” falls within 15% margin of purchase preference - Purchase preference is to be given to lowest quoting “MSE Class-I local supplier”. If lowest quoting “MSE Class-I local supplier” does not accept the L-1 rates, the next higher “MSE Class-I local supplier” falling within 15% margin of purchase preference is to be given purchase preference and so on.
  - (iii) If conditions mentioned in sub paras (i) and (ii) above are not met i.e. L-1 is neither “MSE Class-I local supplier” nor “MSE Class-I local supplier” is eligible to take benefit of purchase preference, the contract is to be awarded/ purchase preference to be given in different possible scenarios as under:
    - A. L1 is “MSE but non-Class-I local supplier” or “Non-MSE but Class-I local supplier” – Contract is awarded to L1.
    - B. L1 is “Non-MSE non-Class-I local supplier” - First purchase preference to be given to MSE as per PPP-MSE Order. If MSE not eligible/ does not accept - purchase preference to be given to Class- I Local supplier as per PPP-MII Order. If Class-I Local supplier also not eligible/ does not accept – contract to be awarded to L-1.
- d) *Items reserved for both MSEs and Class-I local suppliers:* These items are reserved exclusively for purchase from MSEs as well as Class-I local suppliers. Hence, only “MSE Class-I local supplier” are eligible to bid for these items. Non-MSEs/Class-II local suppliers/ Non-local suppliers cannot bid for these items. Hence the question of purchase preference does not arise.
- e) Non-local suppliers, including MSEs falling in the category of Non-local suppliers, shall be eligible to bid only against Global Tender Enquiry.

(Kanwalpreet)  
Director

Tel.: -223093811; email: - kanwal.irss@gov.in

To

1. Secretaries of all Central Government Ministries/ Departments.
2. Secretary Department of Public Enterprises with a request for issuing suitable instructions to all Central Public Sector Enterprises in this regard.

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**Annexure**

**Example explaining applicability in scenario explained in para 4 c (a)(iv)**

(Scenario: Divisible items, both MSEs as well as Class-I local suppliers eligible for purchase preference and L-1 is “Non-MSE non-Class-I local supplier”)

**Item** – Desktop computer

**Qty** – 50 Nos.

**Details of bids received**

Sr. No.	Name of bidder	Rates quoted	Price Ranking	Status of bidder
1.	A	100	L1	“Non-MSE non- Class-I local supplier”
2.	B	110	L2	“Non-MSE but Class-I local supplier”
3.	C	112	L3	“MSE but non- Class-I local supplier”
4.	D	115	L4	“Non-MSE but Class-I local supplier”
5.	E	118	L5	“MSE but non- Class-I local supplier”
6.	F	120	L6	“MSE Class-I local supplier”

1. In this case, first purchase preference is to be given to MSEs as per PPP-MSE Order for 25% of tendered quantity of 50 Nos. i.e. 12.5 Nos. (rounded off to the next whole number say 13 Nos). Accordingly, invite L3 (bidder C), whose quoted rates falls within 15% margin of purchase preference to match L1 price i.e. Rs. 100/- for quantity of 13 Nos. Bidder “E” and “F”, although MSEs, will not get purchase preference since their quoted rates don’t fall within 15% margin of purchase preference. Bidder C will be considered for order of 13 Nos. on confirmation of reduction of price.
2. For 50% of balance quantity of 37 number (tendered quantity of 50 – 13 awarded to bidder C; assuming bidder C has confirmed to accept L1 rates), purchase preference will be given to lowest Class-I local supplier as per PPP-MII Order. Accordingly, bidder B will be invited to match L-1 price for 50% of 37 Nos i.e. 18.5 (say 19 Nos of computers). If bidder “B” does not accept the L1 price i.e. price of Rs. 100/- per unit, next higher Class-I local supplier falling within 20% margin of purchase preference, i.e. bidder “D”, may be invited to match L-1 price for 19 Nos. of computers and so on.
3. For remaining quantity i.e. 18 Nos (50-13-19), the contract will be awarded to lowest quoting bidder i.e. Bidder “A”, who is L-1 in the example.

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**ANNEXURE-D**

**PROVISION REGARDING POLICY TO PROVIDE PREFERENCE TO  
DOMESTICALLY MANUFACTURED IRON & STEEL PRODUCTS (DMI&SP)**

**1.0 BACK GROUND**

Ministry of Steel (MoS) vide Gazette notification dated 29.05.2019 has circulated revised Policy for Providing Preference to Domestically Manufactured Iron Steel Products in Government Procurement. Further, vide Gazette notification dated 31.12.2020, amendment/ addition to the Policy has been circulated. A copy of the policy, clarification (s) and amendment/ additions issues are available on website of Ministry of Steel (i.e. <http://steel.gov.in/>) for reference.

**2.0 DEFINITIONS**

- i. **Bidder** may be a domestic/foreign manufacturer of steel or their selling agents/ authorized distributors/authorized dealers/authorized supply houses or any other company engaged in the bidding of projects funded by Government agencies.
- ii. **“Domestically Manufactured Iron & Steel Products (DMI&SP)”** are those iron and steel products which are manufactured by entities that are registered and established in India, including in Special Economic Zones (SEZs). In addition, products shall meet the criteria of domestic minimum value – addition as mentioned in Appendix-A.
- iii. **Domestic Manufacturer** is a manufacturer of iron & steel products conforming to guidelines in section 7 and confirming to the definition of ‘manufacturer’ as per Central Excise Act.
- iv. **Government** for the purpose of the Policy means Government of India.
- v. **Government agencies** include Government PSUs, Societies, Trusts and Statutory bodies set up by the Government
- vi. **MoS** Shall mean Ministry of Steel, Govt. of India.
- vii. **Net Selling Price** shall be the invoiced price excluding net domestic taxes and duties
- viii. **Semi- Finished Steel** shall mean Ingots, billet, blooms and slabs, which can be subsequently processed to finished steel.
- ix. **Finished Steel** shall mean Flat and Long products, which can be subsequently processed into manufactured items.
- x. **L1** means the lowest tender or the lowest bid or the lowest quotation received in a tender, bidding process or other procurement solicitation as adjudged in the evaluation process as per the tender or other procurement solicitation.
- xi. **Margin of purchase preference** means the maximum extent to which the price quoted by a domestic supplier may be above L1 for the purpose of purchase

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preference. In case of DMI&SP policy, the margin of purchase preference shall be 20% for items in Appendix B.

- xii. **Iron & Steel Product (s)** shall mean such iron and steel product (s) which are mentioned in Appendix A.
- xiii. **Domestic value addition means-** amount of value added in India which shall be the total value of the item to be procured / sold (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value of the item to be procured / sold, in percent. The 'domestic value addition' definition shall be in line with the Department for Promotion of Industry and Internal Trade (DPIIT) (formerly DIPP) guidelines, and shall be suitably amended in case of any changes by DPIIT in the future. For the purpose of this policy document, domestic value addition and local content have been used interchangeably.

### **3.0 IRON & STEEL PRODUCTS**

- 3.1 The policy is applicable to iron & steel products as provided in Appendix A and to capital goods for manufacturing iron & steel products in Appendix B of the policy:
- 3.2 Appendix A contains list of iron & steel products which are to be exclusively domestically manufactured and cannot be imported without the approval of the Ministry of Steel
- 3.3 Appendix B contains a list (non-exhaustive) of capital goods for which purchase preference shall be provided to domestically manufactured capital goods, if their quoted price falls within 20% of the price quoted for corresponding imported capital good.

Annexure- B is the Indicative list of capital goods(non-exhaustive) for manufacturing iron & steel products. Since presently manufacturing iron & steel products is not being done by BGL, the provision regarding Annexure-B of policy will not be applicable.

- 3.4.1 If Ministry of Steel is satisfied that Indian suppliers of iron and steel products are not allowed to participate and/ or compete in procurement by any foreign government due to restrictive tender conditions which have direct or indirect effect of barring Indian companies such as registration in the procuring country, execution of project of specific value in the procuring country etc., it may, if deemed appropriate, restrict or exclude bidders from that country from eligibility for procurement of that item and/ or other items relating to Ministry of Steel.
- 3.4.2 For the purpose of sub-paragraph 3.4.1 above, a supplier or bidder shall be considered to be from a country if (i) the entity is incorporated in that country, or (ii) a majority of its shareholding or effective control of the entity is exercised from that country; or (iii) more than 50% of the value of the item being supplied has been added in that country. Indian suppliers shall mean those entities which meet any of these tests with respect to India. The term 'entity' of a country shall have the same meaning as under the FDI Policy of DPIIT as amended from time to time.

### **4.0 TENDER PROCEDURE**

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- 4.1 For iron and steel products in Appendix A, the tender is open only to the manufacturers / suppliers having the capability of meeting / exceeding the domestic value addition targets. Manufacturers / suppliers not meeting the domestic value addition targets are not eligible to participate in the bidding.
- 4.2 The bidders who are sole selling agents / authorized distributors/ authorized dealers/authorized supply houses of the domestic manufacturers of iron & steel products are eligible to bid on behalf of the domestic manufacturers under the policy. However, this shall be subject to the following conditions:
- The bidder shall furnish the authorization certificate issued by the domestic manufacturer for selling domestically manufactured iron & Steel products.
  - In case the procurement is covered under Appendix A of the DMI&SP policy, the bidder shall furnish the Affidavit of self-certification issued by the domestic manufacturer BGL declaring that the iron & steel products is domestically manufactured in terms of the domestic value addition prescribed.
  - It shall be the responsibility of the bidder to furnish other requisite documents required to be issued by the domestic manufacturer to the BGL as per the policy.

#### **5.0 DOMESTIC VALUE ADDITION REQUIREMENT**

- 5.1 Minimum domestic value addition requirement to qualify the product as a domestically manufactured iron & steel product mentioned in Appendix A.
- 5.2 Domestic value addition means - amount of value added in India which shall be the total value of the item to be procured / sold (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value of the item to be procured / sold, in percent.
- 5.2.1 In case the iron & steel products are made using domestic input steel (semi-finished/ finished steel), invoices of purchases from the actual domestic producers along with quantities purchased and the other related documents must be furnished to BGL.
- 5.2.2 In case the iron & steel products have imported input steel, the invoices of purchases from the actual producers along with quantities purchased and the other related documents must be furnished separately. To derive the extent of domestic value addition, the weighted average of both (imported & domestic) input steel shall be considered to ensure that the minimum stipulated domestic value addition requirement of the policy is complied with.
- 5.3 It is recommended that procuring Government agency / bidder participating in the tender process should calculate the domestic value addition using the below formula so as to ensure that the domestic value addition claimed is consistent with the minimum stipulated domestic value addition requirement of the policy.

#### **For iron and steel products & capital goods**

##### **% domestic value addition:**

Total value of the item to be procured / sold (excluding net domestic indirect taxes) - the value of imported

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content in the item (including all customs duties)

----- X 100 %

Total value of the item to be procured / sold.

## 6.0 CERTIFICATION AND AUDIT

- 6.1 For products in Appendix A, each domestic manufacturer shall furnish the Affidavit of self-certification to BGL declaring that the iron & steel products are domestically manufactured in terms of the domestic value addition prescribed. The bidders who are sole selling agents / authorized distributors / authorized dealers / authorized supply houses of the domestic manufacturers of iron & steel products are eligible to bid on behalf of domestic manufacturers under the policy. The bidder shall furnish the Affidavits of self-certification issued by the domestic manufacturers to BGL declaring that the iron & steel products are domestically manufactured in terms of the domestic value addition prescribed. The Affidavit of self-certification shall be furnished in **Form 1** attached.
- 6.2 It shall be the responsibility of the domestic manufacturer to ensure that the products so claimed are domestically manufactured in terms of the domestic value addition prescribed for the product. The bidder shall also be required to provide a domestic value addition certificate on half-yearly basis (Sep 30 and Mar 31), duly certified by the Statutory Auditors of the domestic manufacturer, that the claims of domestic value addition made for the product during the preceding 6 months are in accordance with the Policy. Such certificate shall be filed within 60 days of commencement of each half year, to BGL and shall continue to be filed till the completion of supply of the said products.
- 6.3 BGL shall accept the Affidavit of self-certification regarding domestic value addition in a steel product submitted by a bidder. It shall not normally be the responsibility of BGL to verify the correctness of the claim. The onus of demonstrating the correctness of the same shall be on the bidder when asked to do so.
- 6.4 In case a complaint is received by BGL against the claim of a bidder regarding domestic value addition in iron & steel products, BGL shall have full rights to inspect and examine all the related documents and take a decision. In case any clarification is needed, matter may be referred to MoS with a request for technical assistance.

However, there would be a complaint fee of Rs. 10 Lakh or 0.2 % of the value of the DMI&SP being procured (subject to a maximum of Rs. 20 Lakh), whichever is higher, to be paid by Demand Draft payable in favour of 'BGL (India) Limited' along with the complaint by the complainant. In case, the complaint is found to be incorrect, the BGL reserves the right to forfeit the said amount. In case, the complaint is found to be substantially correct, deposited fee of the complainant would be refunded without any interest. Further, no cognizance will be taken to any complain received without the compliant fee mentioned above.

- 6.5 Any complaint referred to BGL shall be disposed off within 4 weeks of the reference along with submission of all necessary documents. The bidder shall be required to furnish the necessary documentation in support of the domestic value addition claimed in iron & steel products to BGL within 2 weeks of filing the complaint.

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- 6.6 In case, the matter is referred to the Ministry of Steel, the grievance redressal committee setup under the MoS shall dispose of the complaint within 4 weeks of its reference and receipt of all documents from the bidder after taking in consideration, the view of BGL. The bidder shall be required to furnish the necessary documentation in support of domestic value addition claimed in iron & steel products to the grievance redressal committee under MoS within 2 weeks of the reference of the matter. If no information is furnished by the bidder, the grievance redressal committee may take further necessary action, in consultation BGL to establish bonafides of claim.
- 6.7 The cost of assessing the prescribed extent of domestic value addition shall be borne BGL if the domestic value addition is found to be correct as per the certificate. However, if it is found that the domestic value addition as claimed is incorrect, Rs. 10 Lakh or 0.2 % of the value of the DMI&SP being procured (subject to a maximum of Rs. 20 Lakh), whichever is higher, will be payable by the bidder (who has furnished an incorrect certificate) toward pre-determined cost of assessment.
- 6.8 In case of misdeclaration by the bidder of the prescribed domestic value addition, in the tender document, BGL will impose also penalties including forfeiting of the EMD/CPBG and putting such bidder on banning list as per BGL's extant "Procedure for action in case Corrupt/Fraudulent/Collusive/Coercive Practices"
- 6.9 In case of reference of any complaint to MoS by the concerned bidder, there would be a complaint fee of Rs. 10 Lakh or 0.2 % of the value of the DMI&SP being procured (subject to a maximum of Rs. 20 Lakh), whichever is higher, to be paid by Demand Draft deposited with the grievance redressal committee under MoS along with the complaint by the complainant. In case, the complaint is found to be incorrect, BGL reserves the right to forfeit the said amount. In case, the complaint is found to be substantially correct, deposited fee of the complainant would be refunded without any interest.

#### **7.0 IMPLEMENTATION MONITORING BY MINISTRY OF STEEL**

- 7.1 The policy provisions shall be applicable for a period of 5 years from the date of publication. The policy period may further be extended at the discretion of Ministry of Steel.
- 7.2 MoS shall be the nodal ministry to monitor the implementation of the policy.

#### **8.0 REFERENCE TO MINISTRY OF STEEL**

In case of a question whether an item being procured is a DMI&SP to be covered under the policy, the matter would be referred to the Ministry of Steel for clarification.

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**Tender for Procurement of Turbine Flow Meter (Custody Meter)  
and EVC at Mother Station to get 4-20 mA flow signal to automize  
Odorization Unit at Vijayawada GA  
Bid Document No: BGL/713/2025-26**

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- **ANNEXURE-I to ITB: PROCEDURE FOR ACTION IN CASE  
CORRUPT/FRAUDULENT/COLLUSIVE/COERCIVE PRACTICES**
- **ANNEXURE-II to ITB: VENDOR PERFORMANCE EVALUATION  
PROCEDURE**

(Sign & Seal of Bidder)



**Tender for Procurement of Turbine Flow Meter (Custody Meter)  
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Volume I of  
II

**Annexure-I of ITB**

**PROCEDURE FOR ACTION IN CASE  
CORRUPT/FRAUDULENT/COLLUSIVE/COERCIVE PRACTICES**

**Definitions:**

- A.1 "Corrupt Practice" means the offering, giving, receiving or soliciting, directly or indirectly, anything of value to improperly influence the actions in selection process or in contract execution.
- "Corrupt Practice" also includes any omission for misrepresentation that may mislead or attempt to mislead so that financial or other benefit may be obtained or an obligation avoided.
- A.2 "Fraudulent Practice" means and include any act or omission committed by a agency or with his connivance or by his agent by misrepresenting/ submitting false documents and/ or false information or concealment of facts or to deceive in order to influence a selection process or during execution of contract/ order.
- A.3 "Collusive Practice amongst bidders (prior to or after bid submission)" means a scheme or arrangement designed to establish bid prices at artificial non-competitive levels and to deprive the Employer of the benefits of free and open competition.
- A.4 "Coercive practice" means impairing or harming or threatening to impair or harm directly or indirectly, any agency or its property to influence the improperly actions of an agency, obstruction of any investigation or auditing of a procurement process.
- A.5 "Vendor/Supplier/Contractor/Consultant/Bidder" is herein after referred as "Agency"
- A.6 "Appellate Authority" shall mean Committee of Directors consisting of Managing Director and Director (Commercial).
- A.7 "Competent Authority" shall mean the authority, who is competent to take final decision for Suspension of business dealing with an Agency/ ies and Banning of business dealings with Agency/ies and shall be the MD..
- A.8 "Allied Agency" shall mean all the concerns within the sphere of effective influence of banned/ suspended agencies. In determining this, the following factors may be taken into consideration:
- Whether the management is common;
  - Majority interest in the management is held by the partners or directors of banned/ suspended firm.
  - substantial or majority shares are owned by banned/ suspended agency and by virtue of this it has a controlling voice.
  - Directly or indirectly controls, or is controlled by or is under common control with another bidder.
  - All successor agency will also be considered as allied agency.
- A.9 "Investigating Agency" shall mean any department or unit of BGL investigating into the conduct of Agency / party and shall include the Vigilance Department of the BGL, Central Bureau of Investigation, State Police or any other agency set up by the Central or state government having power to investigate.

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**A.4** "Obstructive practice": materially impede the procuring entity's investigation into allegations of one or more of the above mentioned practices either by deliberately destroying, falsifying, altering; or by concealing of evidence material to the investigation; or by making false statements to investigators and/ or by threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or by impeding BGL 's rights of audit or access to information.

**B Actions against bidder(s) indulging in corrupt /fraudulent/ collusive/ coercive practice**

**B.1 Irregularities noticed during the evaluation of the bids :**

If it is observed during bidding process/ bids evaluation stage that a bidder has indulged in corrupt/fraudulent /collusive/coercive practice, the bid of such Bidder (s) shall be rejected and its Earnest Money Deposit (EMD) shall be forfeited.

Further, such agency shall be banned for future business with BGL for a period specified in para B 2.2 below from the date of issue of banning order.

**B.2 Irregularities noticed after award of contract**

**(i) During execution of contract:**

If an agency, is found to have indulged in corrupt/fraudulent/ collusive/coercive practices, action shall be initiated for putting the agency on banning list

After conclusion of process and issuance of Speaking order for putting party on banning list as per process defined in para E, the order (s)/ contract (s) where it is concluded that such irregularities have been committed shall be terminated and Contract cum Performance Bank Guarantee (CPBG) submitted by agency against such order (s)/ contract (s) shall also be forfeited. Further such order/ contract will be closed following the due procedure in this regard.

The amount that may have become due to the contractor on account of work already executed by him shall be payable to the contractor and this amount shall be subject to adjustment against any amounts due from the contractor under the terms of the contract. No risk and cost provision will be enforced in such cases.

**Suspension of order/ contract:**

Further, only in the following situations, the concerned order (s)/ contract(s) (where Corrupt/Fraudulent/ Collusive/ Coercive Practices are observed) and payment shall be suspended after issuance of Suspension cum Show Cause Notice:

- (i) Head of Corporate Vigilance Department/CVO based on the investigation by them, recommend for specific immediate action against the agency.

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- (ii) Head of Corporate Vigilance Department/CVO based on the input from investigating agency, forward for specific immediate action against the agency.

Suspension cum Show Cause Notice being issued in above cases after approval of the competent authority (as per provisions mentioned under Clause no. D) shall also include the provision for suspension of Order (s)/ Contract (s) and payment. Accordingly, after issuance of Suspension cum Show Cause Notice, the formal communication for suspension of Order (s)/ Contract (s) and payment with immediate effect will be issued by the concerned person of BGL.

During suspension, Contractor/ Service Providers will be allowed to visit the plant/ site for upkeep of their items/ equipment, BGL's issued materials (in case custody of same is not taken over), demobilizing the site on confirmation of EIC, etc.

In addition to above, Recovery of payments including advance payments, if any, made by along with interest thereon at the prevailing rate shall be recovered.

- (ii) **After execution of contract and during Defect liability period (DLP)/ Warranty/Guarantee Period:**

If an agency is found to have indulged in corrupt/fraudulent/ collusive/coercive practices, after execution of contract and during DLP/ Warranty/Guarantee Period, the agency shall be banned for future business with BGL for a period specified in para B 2.2 below from the date of issue of banning order.

Further, the Contract cum Performance Bank Guarantee (CPBG) submitted by agency against such order (s)/ contract (s) shall be forfeited.

- (iii) **After expiry of Defect liability period (DLP)/ Warranty/Guarantee Period**

If an agency is found to have indulged in corrupt/fraudulent/ collusive/coercive practices, after expiry of Defect liability period (DLP)/ Warranty/Guarantee Period, the agency shall be banned for future business with BGL for a period specified in para B 2.2 below from the date of issue of banning order.

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**B.2.2 Period of Banning :**

The period of banning of agencies indulged in Corrupt/Fraudulent/Collusive/Coercive Practices shall be as under and to be reckoned from the date of banning order:

S. No.	Description	Period of banning from the date of issuance of Banning order
1	Misrepresentation/False information other than pertaining to BEC of tender but having impact on the selection process. For example, if an agency confirms not being in holiday in BGL/ GAIL/HPCL/PSU's PMC or banned by PSUs/ Govt. Dept., liquidation, bankruptcy & etc. and subsequently it is found otherwise, such acts shall be considered in this category.	06 Months
2	Corrupt/Fraudulent (except mentioned sl. no. 1 above) /Collusive/Coercive Practices	01 years
2.1	If an agency again commits Corrupt/Fraudulent (except mentioned sl. no. 1 above) /Collusive/Coercive Practices in subsequent cases after their banning, such situation of repeated offense to be dealt with more severity	2 years (in addition to the period already served)
3	Indulged in unauthorized disposal of materials provided by BGL.	2 years
4	If act of vendor/ contractor is a threat to the National Security	2 years

**C Effect of banning on other ongoing contracts/ tenders**

- C.1 If an agency is put on Banning, such agency should not be considered in ongoing tenders/future tenders.
- C.2 However, if such an agency is already executing other order (s)/ contract (s) where no corrupt/fraudulent/ collusive/coercive practice is found, the agency should be allowed to

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continue till its completion without any further increase in scope except those incidental to original scope mentioned in the contract.

C.3 If an agency is put on the Banning List during tendering and no irregularity is found in the case under process:

C.3.1 after issue of the enquiry /bid/tender but before opening of Technical bid, the bid submitted by the agency shall be ignored.

C.3.2 after opening Technical bid but before opening the Price bid, the Price bid of the agency shall not be opened and BG/EMD submitted by the agency shall be returned to the agency.

C.3.3 after opening of price, BG/EMD made by the agency shall be returned; the offer of the agency shall be ignored & will not be further evaluated. In case such agency is lowest (L-1), next lowest bidder shall be considered as L-1. Bid security submitted by such debarred firms shall be returned to them.

#### **D. Procedure for Suspension of Bidder**

##### **D.1 Initiation of Suspension**

Action for suspension business dealing with any agency/(ies) shall be initiated when

- (i) Corporate Vigilance Department based on the fact of the case gathered during investigation by them recommend for specific immediate action against the agency.
- (ii) Corporate Vigilance Department based on the input from Investigating agency, forward for specific immediate action against the agency.
- (iii) Non performance of Vendor/Supplier/Contractor/Consultant leading to termination of Contract/ Order.

##### **D.2 Suspension Procedure:**

D.2.1 The order of suspension would operate initially for a period not more than six months and is to be communicated to the agency and also to Corporate Vigilance Department. Period of suspension can be extended with the approval of the Competent Authority by one month

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at a time with a ceiling of six months pending a conclusive decision to put the agency on banning list.

- D.2.2 The suspension order shall also be hosted on BGL 's site and a copy will be forwarded to all HODs by C&P Department. During the period of suspension, no new business dealing may be held with the agency.
- D.2.3 Period of suspension shall be accounted for in the final order passed for banning of business with the agency.
- D.2.4 The decision regarding suspension of business dealings should also be communicated to the agency.

**D3 Effect of Suspension of business:**

Effect of suspension on other on-going/future tenders will be as under:

- D.3.1 No enquiry/bid/tender shall be entertained from an agency as long as the name of agency appears in the Suspension List.
- D.3.2 If an agency is put on the Suspension List during tendering:
- D.3.2.1 After issue of the enquiry /bid/tender but before opening of Technical bid, the bid submitted by the agency shall be ignored.
- D.3.2.2 After opening Technical bid but before opening the Price bid, the Price bid of the agency shall not be opened and BG/EMD submitted by the agency shall be returned to the agency.
- D.3.2.3 After opening of price, BG/EMD made by the agency shall be returned; the offer of the agency shall be ignored & will not be further evaluated.  
In case such agency is lowest (L-1), next lowest bidder shall be considered as L-1. Bid security submitted by such debarred firms shall be returned to them
- D.3.3 The existing contract (s)/ order (s) under execution shall continue.
- D.3.4 Tenders invited for procurement of goods, works and services shall have provision that the bidder shall submit a undertaking to the effect that (i) neither the bidder themselves nor their allied agency/(ies) are on banning list of BGL or the Ministry of Petroleum and Natural Gas and (ii) bidder is not banned by any Government department/ Public Sector.

**E. Appeal against the Decision of the Competent Authority:**

- (a) The party may file an appeal against the order of the Competent Authority for putting the party on Holiday list. The appeal shall be filed to Appellate Authority. Such an appeal shall be preferred within one month from the receipt of Holiday order.

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- (b) Appellate Authority would consider the appeal and pass appropriate order which shall be communicated to the party as well as the Competent Authority.
  - (c) Appeal process may be completed within 45 days of filing of appeal with the Appellate Authority.
  - (d) “Appellate Authority” shall mean Committee of Directors
  - (e) A Holiday order may be revoked before the expiry of the Order, by the Appellate authority, if it is of the opinion that the disability already suffered is adequate in the circumstances of the case or for any other reason.
  - (f) In case of shortage of vendor in a particular group, such holiday may also hurt the interest of BGL. In such cases, endeavor should be to pragmatically analyze the circumstances, try to reform the agency and may get a written commitment from the agency that its performance will improve.
- G. Wherever there is contradiction with respect to terms of ‘Integrity pact’ , GCC and ‘Procedure for action in case of Corrupt/Fraudulent/ Collusive/Coercive Practice’, the provisions of ‘Procedure for action in case of Corrupt/Fraudulent/ Collusive/Coercive Practice’ shall prevail.

(Sign & Seal of Bidder)

**ANNEXURE-II TO ITB**

**PROCEDURE FOR EVALUATION OF PERFORMANCE OF VENDORS/ SUPPLIERS/ CONTRACTORS/ CONSULTANTS**

**1.0 GENERAL**

A system for evaluation of Vendors/ Suppliers/Contractors/ Consultants and their performance is a key process and important to support an effective purchasing & contracting function of an organization.

Performance of all participating Vendors/ Suppliers/Contractors/ Consultants need to be closely monitored to ensure timely receipt of supplies from a Vendor, completion of an assignment by a Consultant or complete execution of order by a contractor within scheduled completion period. For timely execution of projects and meeting the operation & maintenance requirement of operating plants, it is necessary to monitor the execution of order or contracts right from the award stage to completion stage and take corrective measures in time.

**2.0 OBJECTIVE**

The objective of Evaluation of Performance aims to recognize, and develop reliable Vendors/ Suppliers/Contractors/ Consultants so that they consistently meet or exceed expectations and requirements.

The purpose of this procedure is to put in place a system to monitor performance of Vendors/ Suppliers/Contractors/ Consultants so as to ensure timely completion of various projects, timely receipt of supplies including completion of works & services for operation and maintenance of operating plants and quality standards in all respects.

**3.0 METHODOLOGY**

**i) Preparation of Performance Rating Data Sheet**

Performance rating data Sheet for each and every Vendor/ Supplier/Contractor/Consultant for all orders/Contracts with a value of Rs. 50 Lakhs and above is recommended to be drawn up. Further, Performance rating data Sheet for orders/contracts of Vendor/Supplier/Contractor/ Consultant who are on watch list/holiday list/ banning list shall be prepared irrespective of order/ contract value. These data sheets are to be separately prepared for orders/ contracts related to Projects and O&M within 30 days after execution of Order/ Contract. Format, Parameters, Process, responsibility for preparation of Performance Rating Data Sheet are separately mentioned.

**ii) Measurement of Performance**

Based on the parameters defined in Data Sheet, Performance of concerned Vendor/ Supplier/Contractor/ Consultant would be computed and graded accordingly. The measurement of the performance of the Party would be its ability to achieve the minimum scoring of 60% points in the given parameters.

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iii) Initiation of Measures:  
 Depending upon the Grading of Performance, corrective measures would be initiated by taking up the matter with concerned Vendor/ Supplier/Contractor/ Consultant. Response of Vendor/ Supplier/Contractor/ Consultant would be considered before deciding further course of action.

iv) Implementation of Corrective Measures:  
 Based on the response of Vendor/ Supplier/Contractor/ Consultant, concerned HOD would recommend for continuation or discontinuation of such party from the business of BGL.

v) Orders/contracts placed on Proprietary/OEM basis for O&M will be evaluated and, if required, corrective action will be taken for improvement in future.

**4.0 EXCLUSIONS**

The following would be excluded from the scope of evaluation of performance of Vendors/ Suppliers/Contractors/ Consultants:

- i) Orders/Contracts below the value of Rs. 50 Lakhs if Vendor/ Supplier/Contractor/ Consultant is not on watch list/ holiday list/ banning list.
- ii) Orders for Misc./Administrative items/ Non stock Non valued items .

However, concerned HOD will continue to monitor such cases so as to minimize the impact on Projects/O&M plants due to non performance of Vendors/ Suppliers/Contractors/ Consultants in all such cases.

**5.0 PROCESS OF EVALUATION OF PERFORMANCE OF VENDORS/ SUPPLIERS/ CONTRACTORS/ CONSULTANTS**

**5.1 FOR PROJECTS**

- i) Evaluation of performance of Vendors/ Suppliers/Contractors/ Consultants in case of PROJECTS shall be done immediately with commissioning of any Project.
- ii) On commissioning of any Project, EIC (Engineer-in-charge)/ Project-in-charge shall prepare a Performance Rating Data Sheet (Format at Annexure-1) for all Orders and Contracts excluding cases under para 4.0
- iii) Depending upon the Performance Rating, following action need to be initiated by Engineer-in-charge/Project- in-charge:

Sl.No.	Performance Rating	Action
1	POOR	Seek explanation for Poor performance
2	FAIR	Seek explanation for Fair performance
3	GOOD	Letter to the concerned for improving performance in future
4	VERY GOOD	No further action

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- iv) Reply from concerned Vendor/ Supplier/Contractor/ Consultant shall be examined. In case of satisfactory reply, Performance Rating data Sheet to be closed with a letter to the concerned for improving performance in future.
- v) When no reply is received or reasons indicated are unsatisfactory, the following actions need to be taken:
  - A) Where performance rating is “POOR” (as per Performance Rating carried out after execution of Order/ Contract and where no reply/ unsatisfactory reply is received from party against the letter seeking the explanation from Vendor/Supplier/Contractor/ Consultant along with sharing the performance rating)

Recommend such defaulting Vendor / Supplier / Contractor / Consultant for the following action:

1. Poor Performance on account of Quality (if marks obtained against Quality parameter is less than 20):
  - (a) First Instance: **Holiday (Red Card) for One Years**
  - (b) Subsequent instance (s) in other ongoing order (s)/ contract (s) or new order (s) /contact (s) on such Vendor/ Supplier/ Contractor/ Consultant: **Holiday (Red Card) for Two Years**
2. Poor Performance on account of other than Quality (if marks obtained against Quality parameter is more than 20):
  - (a) First such instance: **Advisory notice (Yellow Card)** shall be issued and Vendor/Supplier/Contractor/ Consultant shall be **put on watch list for a period of Two (2) Years.**
  - (b) Second such instance in other ongoing order (s)/ contract (s) or new order (s) /contact (s) on such Vendor/ Supplier/ Contractor/ Consultant: **Putting on Holiday (Red Card) for a period of One Year**
  - (c) Subsequent instances (more than two) in other ongoing order (s)/ contract (s) or new order(s) /contact (s) on such Vendor/ Supplier/ Contractor/ Consultant: **Putting on Holiday (Red Card) for a period of Two Years.**
- B. Where Poor/Non-Performance leading to termination of contract or Offloading of contract due to poor performance attributable to Vendor/Supplier/ Contractor/Consultant (under clause no. 32 (C) of GCC- Works, Clause no. 28.3.1 of GCC-Goods, second para of Clause no. 2.17.3 of GCC-Services and Clause no.3.16.1 of GCC-Consultancy)
  - (a) First instance: **Advisory notice (Yellow Card)** shall be issued and Vendor/Supplier/Contractor /Consultant shall be put on watch list for a period of Two (2) Years.

Further such vendor will not be allowed to participate in the re-tender of the same supply/work/services of that location which has terminated / offloaded. Moreover, it will

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be ensured that all other action as per provision of contract including forfeiture of Contract Performance Security (CPS) etc. are undertaken.

However, such vendor will be allowed to participate in all other tenders and to execute other ongoing order/ contract (s) or new contract/ order (s).

The Yellow card will be automatically revoked after a period of three years unless the same is converted into Red Card due to subsequence instances of poor/ non-performance in other ongoing order (s)/ contract (s) or new order (s) /contact (s) on such Vendor/ Supplier/ Contractor/ Consultant.

- (b) Second instances in other ongoing order (s)/ contract (s) or new order (s) /contact (s) on such Vendor/ Supplier/ Contractor/ Consultant: **Holiday (Red Card) for period of One Year and they shall also to be considered for Suspension.**
- (c) Subsequent instances (more than two) in other ongoing order (s)/ contract (s) or new order (s) /contact (s) on such Vendor/ Supplier/ Contractor/ Consultant: **Holiday (Red Card) for period of Two Years and they shall also to be considered for Suspension.**

C. Where Performance rating is “FAIR”:

Recommend for issuance of warning to such defaulting Vendor/ Supplier/Contractor/ Consultant to improve their performance.

5.2 Deleted

5.3 FOR OPERATION & MAINTENANCE

- i) Evaluation of performance of Vendors/ Suppliers/Contractors/ Consultants in case of Operation and Maintenance shall be done immediately after execution of order/ contract.
- ii) After execution of orders a Performance Rating Data Sheet (Format at Annexure-2) shall be prepared for Orders by Site C&P and for Contracts/Services by respective Engineer-In-Charge.
- iii) Depending upon Performance Rating, following action shall be initiated by EIC:

Sl. No.	Performance Rating	Action
1	<b>POOR</b>	Seek explanation for Poor performance
2.	<b>FAIR</b>	Seek explanation for Fair performance
3	<b>GOOD</b>	Letter to the concerned for improving performance in future.
4	<b>VERY GOOD</b>	No further action

(Sign & Seal of Bidder)

- iv) Reply from concerned Vendor/ Supplier/Contractor/ Consultant shall be examined. In case of satisfactory reply, Performance Rating data Sheet to be closed with a letter to the concerned for improving performance in future.
- v) When no reply is received or reasons indicated are unsatisfactory, the following actions need to be taken:
- A) Where performance rating is “POOR” (as per Performance Rating carried out after execution of Order/ Contract and where no reply/ unsatisfactory reply is received from party against the letter seeking the explanation from Vendor/Supplier/Contractor/ Consultant along with sharing the performance rating)  
Recommend such defaulting Vendor / Supplier / Contractor / Consultant for the following action:
1. Poor Performance on account of Quality (if marks obtained against Quality parameter is less than 20):
    - (a) First Instance: **Holiday (Red Card) for One Year**
    - (b) Subsequent instance (s) in other ongoing order (s)/ contract (s) or new order (s) /contact (s) on such Vendor/ Supplier/ Contractor/ Consultant: **Holiday (Red Card) for Two Years**
  2. Poor Performance on account of other than Quality (if marks obtained against Quality parameter is more than 20):
    - (a) First such instance: **Advisory notice (Yellow Card)** shall be issued and Vendor/Supplier/Contractor/ Consultant shall be **put on watch list for a period of Two (2) Years.**
    - (b) Second such instance in other ongoing order (s)/ contract (s) or new order (s) /contact (s) on such Vendor/ Supplier/ Contractor/ Consultant: **Putting on Holiday (Red Card) for a period of One Year**
    - (c) Subsequent instances (more than two) in other ongoing order (s)/ contract (s) or new order (s) /contact (s) on such Vendor/ Supplier/ Contractor/ Consultant: **Putting on Holiday (Red Card) for a period of Two Years.**
- B) Where Poor/Non-Performance leading to termination of contract or Offloading of contract due to poor performance attributable to Vendor/Supplier/ Contractor/Consultant (under Clause no. 28.3.1 of GCC-Goods)
  - (a) First instance: **Advisory notice (Yellow Card)** shall be issued and Vendor/Supplier/Contractor /Consultant shall be **put on watch list for a period of Two (2) Years.**

(Sign & Seal of Bidder)

Further such vendor will not be allowed to participate in the re-tender of the same supply/work/services of that location which has terminated / offloaded. Moreover, it will be ensured that all other action as per provision of contract including forfeiture of Contract Performance Security (CPS) etc. are undertaken.

However, such vendor will be allowed to participate in all other tenders and to execute other ongoing order/ contract (s) or new contract/ order (s).

The Yellow card will be automatically revoked after a period of two years unless the same is converted into Red Card due to subsequent instances of poor/ non-performance in other ongoing order (s)/ contract (s) or new order (s) /contact (s) on such Vendor/ Supplier/ Contractor/ Consultant.

- (b) Second instances in other ongoing order (s)/ contract (s) or new order (s) /contact (s) on such Vendor/ Supplier/ Contractor/ Consultant: **Holiday (Red Card) for period of One Year** and they shall also to be **considered for Suspension**.
- (c) Subsequent instances (more than two) in other ongoing order (s)/ contract (s) or new order (s) /contact (s) on such Vendor/ Supplier/ Contractor/ Consultant: **Holiday (Red Card) for period of Two Years** and they shall also to be considered for Suspension.

- (C) Where Performance rating is “FAIR”

Issuance of warning to such defaulting Vendors/Contractors/Consultants to improve their performance.

#### 6.0 **REVIEW & RESTORATION OF PARITES PUT ON HOLIDAY**

- 6.1 An order for Holiday passed for a certain specified period shall deemed to have been automatically revoked on the expiry of that specified period and it will not be necessary to issue a specific formal order of revocation.

Further, in case Vendor/ Supplier/Contractor/ Consultant is put on holiday due to quality, and new order is placed on bidder after restoration of Vendor/ Supplier/Contractor/ Consultant, such order will be properly monitored during execution stage by the concerned site.

## **7.0 EFFECT OF HOLIDAY**

- 7.1 If a Vendor/ Supplier/Contractor/ Consultant is put on Holiday, such Vendor/ Supplier/Contractor/ Consultant shall not be considered in ongoing tenders/future tenders.
- 7.2 However, if such Vendor/ Supplier/Contractor/ Consultant is already executing any other order/ contract and their performance is satisfactory in terms of the relevant contract, should be allowed to continue till its completion without any further increase in scope except those incidental to original scope mentioned in the contract. In such a case CPBG will not be forfeited and payment will be made as per provisions of concerned contract. However, this would be without prejudice to other terms and conditions of the contract.
- 7.3. Effect on other ongoing tendering:
- 7.3.1 after issue of the enquiry /bid/tender but before opening of Technical bid, the bid submitted by the party shall be ignored.
- 7.3.2 after opening Technical bid but before opening the Price bid, the Price bid of the party shall not be opened and BG/EMD submitted by the party shall be returned to the party.
- 7.3.3 after opening of price, BG/EMD made by the party shall be returned; the offer of the party shall be ignored & will not be further evaluated. In case such agency is lowest (L-1), next lowest bidder shall be considered as L-1.
- 8.0 While putting the Vendor/ Supplier/Contractor/ Consultant on holiday as per the procedure, the holding company, subsidiary, joint venture, sister concerns, group division of the errant Vendor/ Supplier/Contractor/ Consultant shall not be considered for putting on holiday list.
- Any bidder, put on holiday, will not be allowed to bid through consortium route also in new tender during the period of holiday.
- 9.0 If an unsuccessful bidder makes any vexatious, frivolous or malicious complaint against the tender process with the intention of delaying or defeating any procurement or causing loss to BGL or any other bidder, such bidder will be put on holiday for a period of six months, if such complaint is proved to be vexatious, frivolous or malicious, after following the due procedure.

## **10. APPEAL AGAINST THE DECISION OF THE COMPETENT AUTHORITY:**

- (a) The party may file an appeal against the order of the Competent Authority for putting the party on Holiday list. The appeal shall be filed to Appellate Authority. Such an appeal shall be preferred within one month from the of receipt of Holiday order.

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- (b) Appellate Authority would consider the appeal and pass appropriate order which shall be communicated to the party as well as the Competent Authority.
- (c) Appeal process may be completed within 45 days of filing of appeal with the Appellate Authority.
- (d) “Appellate Authority” shall mean Committee of Managing Director, BGL & Director (Commercial), BGL

11. **ERRANT BIDDER**

In case after price bid opening the lowest evaluated bidder (L1) is not awarded the job for any mistake committed by him in bidding or withdrawal of bid or modification of bid or varying any term in regard thereof leading to re-tendering, BGL shall forfeit EMD if paid by the bidder and such bidders shall be debarred from participation in retendering of the same job(s)/item(s).

Further, such bidder will be put on Watch List (Yellow Card) for a period of two years after following the due procedure. However, during the period in watch list such vendor will be allowed to participate in all other tenders and to execute other ongoing order/ contract (s) or new contract/ order (s).

In case of subsequent instances of default in other tender(s) during aforesaid watch list period, the action shall be initiated as per provision of sl. no. 2 of para A of Clause no. 5.1 (v) and 5.3 (v).

The Yellow card will be automatically revoked after specified period unless the same is converted into Red Card.

12. In case CBIC (Central Board of Indirect Taxes and Customs)/ any tax authority / any equivalent government agency brings to the notice of BGL that the Supplier has not remitted the amount towards GST (CGST & SGST/UTGST or IGST) collected from BGL to the government exchequer, then, that Supplier shall be put under Holiday list of BGL for period of six months after following the due procedure. This action will be in addition to the right of recovery of financial implication arising on BGL.



**Tender for Procurement of Turbine Flow Meter (Custody Meter)  
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**Annexure-1**

**BHAGYANAGAR GAS LIMITED  
PERFORMANCE RATING DATA SHEET [PRDS]  
(FOR PROJECTS/ CONSULTANCY JOBS)**

- i) Project/Work Centre :
- ii) Order/ Contract No. & date :
- iii) Brief description of Items Works/Assignment :
- iv) Order/Contract value (Rs.) :
- v) Name of Vendor/Supplier/ Contractor/ Consultant :
- vi) Contracted delivery/ Completion Schedule :
- vii) Actual delivery/ Completion date :

Performance Parameter	Delivery/ Completion Performance	Quality Performance	Reliability Performance#	Total
Maximum Marks	40	40	20	100
Marks Allocated				

Note:  
Remarks (if any)

PERFORMANCE RATING (\*\*)

Note:

(#) Vendor/Supplier/Contractor/Consultant who seek repeated financial assistance or deviation beyond contract payment term or seeking direct payment to the sub-vendor/ sub-contractor due to financial constraints, then '0' marks should be allotted against Reliability Performance.

(\*) Allocation of marks should be as per enclosed instructions

(\*\*) Performance rating shall be classified as under:

Sl. No.	Range (Marks)	Rating
1	60 & below	POOR
2	61-75	FAIR
3	76-90	GOOD
4	More than 90	VERY GOOD

Signature of  
Authorised Signatory:

Name:

Designation:

(Sign & Seal of Bidder)

**INSTRUCTIONS FOR ALLOCATION OF MARKS**

1. Marks are to be allocated as under:

**1.1 DELIVERY/ COMPLETION PERFORMANCE 40 Marks**

<b>Delivery Period/ Completion Schedule</b>	<b>Delay in Weeks</b>	<b>Marks</b>
a) Upto 3 months	Before CDD	40
	Delay upto 4 weeks	35
	" 8 weeks	30
	" 10 weeks	25
	" 12 weeks	20
	" 16 weeks	15
	More than 16 weeks	0
b) Above 3 months	Before CDD	40
	Delay upto 4 weeks	35
	" 8 weeks	30
	" 10 weeks	25
	" 16 weeks	20
	" 20 weeks	15
	" 24 weeks	10
	More than 24 weeks	0

**1.2 QUALITY PERFORMANCE 40 Marks**

For Normal Cases: No Defects/ No Deviation/ No failure: 40 marks

i) Rejection/Defects	Marks to be allocated on prorata basis for acceptable quantity as compared to total quantity for normal cases	10 marks
ii) When quality failure endanger system integration and safety of the system	Failure of severe nature - Moderate nature - low severe nature	0 marks 5 marks 10-25 marks
iii) Number of deviations	1. No deviation 2. No. of deviations $\leq 2$ 3. No. of deviations $> 2$	5 marks 2 marks 0 marks

**1.3 RELIABILITY PERFORMANCE 20 Marks**

(Sign & Seal of Bidder)

<b>A.</b>	<b>FOR WORKS / CONTRACTS</b>	<b>Marks</b>
i)	Submission of order acceptance, agreement, CPS/PBG, Drawings and other documents within time	4 marks
ii)	Mobilization of resources as per Contract and in time	4 marks
iii)	Liquidation of Check-list points	4 marks
iv)	Compliance to statutory and HS&E requirements or Reliability of Estimates/Design/Drawing etc. in case of Consultancy jobs	4 marks
v)	Timely submission of estimates and other documents for Extra, Substituted & AHR items	4 marks
<b>B.</b>	<b>FOR SUPPLIES</b>	<b>Marks</b>
i)	Submission of order acceptance, CPS/PBG, Drawings and other documents within time	5 marks
ii)	Attending complaints and requests for after sales service/ warranty repairs and/ or query/ advice (upto the evaluation period).	5 marks
iii)	Response to various correspondence and conformance to standards like ISO	5 marks
iv)	Submission of all required documents including Test Certificates at the time of supply	5 marks

(Sign & Seal of Bidder)



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**Annexure-2**

**BHAGYANAGAR GAS LIMITED  
PERFORMANCE RATING DATA SHEET [PRDS]  
(FOR O&M)**

- i) Location :
- ii) Order/ Contract No. & date :
- iii) Brief description of Items :  
Works/Assignment :
- iv) Order/Contract value (Rs.) :
- v) Name of Vendor/Supplier/ :  
Contractor/ Consultant :
- vi) Contracted delivery/ :  
Completion Schedule :
- vii) Actual delivery/ :  
Completion date :

Performance Parameter	Delivery Performance	Quality Performance	Reliability Performance#	Total
Maximum Marks	40	40	20	100
Marks Allocated (*)				

Remarks (if any)

PERFORMANCE RATING (\*\*)

Note:

- (#) Vendor/Supplier/Contractor/Consultant who seek repeated financial assistance or deviation beyond contract payment term or seeking direct payment to the sub-vendor/sub-contractor due to financial constraints, then '0' marks should be allotted against Reliability Performance
- (\*) Allocation of marks should be as per enclosed instructions
- (\*\*) Performance rating shall be classified as under:

Sl. No.	Range (Marks)	Rating
1	60 & below	POOR
2	61-75	FAIR
3	76-90	GOOD
4	More than 90	VERY GOOD

Signature of  
Authorised Signatory:

Name:

Designation:

**INSTRUCTIONS FOR ALLOCATION OF MARKS (FOR O&M)**

- 1. Marks are to be allocated as under:

<b>1.1 DELIVERY/ COMPLETION PERFORMANCE</b>	<b>40 Marks</b>
<b>Delivery Period/</b>	<b>Delay in Weeks</b>
	<b>Marks</b>

(Sign & Seal of Bidder)

### Completion Schedule

a) Upto 3 months	Before CDD	40
	Delay upto 4 weeks	35
	” 8 weeks	30
	” 10 weeks	25
	” 12 weeks	20
	” 16 weeks	15
	More than 16 weeks	0
b) Above 3 months	Before CDD	40
	Delay upto 4 weeks	35
	” 8 weeks	30
	” 10 weeks	25
	” 16 weeks	20
	” 20 weeks	15
	” 24 weeks	10
More than 24 weeks	0	

### 1.2 QUALITY PERFORMANCE 40 Marks

For Normal Cases: No Defects/ No Deviation/ No failure: 40 marks

i) Rejection/Defects                      Marks to be allocated on prorata basis for acceptable quantity as compared to total quantity for normal cases                      10 marks

ii) When quality failure endanger system integration and safety of the system

Failure of severe nature	0 marks
- Moderate nature	5 marks
- low severe nature	10-25 marks

iii) Number of deviations

1. No deviation	5 marks
2. No. of deviations $\leq 2$	2 marks
3. No. of deviations $> 2$	0 marks

(Sign & Seal of Bidder)

**1.3 RELIABILITY PERFORMANCE**

**20 Mark**

<b>A.</b>	<b>FOR WORKS/CONTRACTS</b>	<b>Marks</b>
i)	Submission of order acceptance, agreement, CPS/PBG, Drawings and other documents within time	4 marks
ii)	Mobilization of resources as per Contract and in time	4 marks
iii)	Liquidation of Check-list points	4 marks
iv)	Compliance to statutory and HS&E requirements or Reliability of Estimates/Design/Drawing etc. in case of Consultancy jobs	4 marks
v)	Timely submission of estimates and other documents for Extra, Substituted & AHR items	4 marks
<b>B.</b>	<b>FOR SUPPLIES</b>	<b>Marks</b>
i)	Submission of order acceptance, CPS/PBG, Drawings and other documents within time	5 marks
ii)	Attending complaints and requests for after sales service/ warranty repairs and/ or query/ advice (upto the evaluation period).	5 marks
iii)	Response to various correspondence and conformance to standards like ISO	5 marks
iv)	Submission of all required documents including Test Certificates at the time of supply	5 marks

(Sign & Seal of Bidder)



**Tender for Procurement of Turbine Flow Meter (Custody Meter)  
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**ANNEXURE-III**

**Not Applicable**

(Sign & Seal of Bidder)



**Tender for Procurement of Turbine Flow Meter (Custody Meter) and EVC at Mother Station to get 4-20 mA flow signal to automatize Odorization Unit at Vijayawada GA  
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**Annexure-IV to Section-III**

**BIDDING DATA SHEET (BDS)**

**ITB TO BE READ IN CONJUNCTION WITH THE FOLLOWING:**

<b>A. GENERAL</b>					
<b>ITB clause</b>	<b>Description</b>				
<b>1.1</b>	The Employer/Owner is: Bhayanagar Gas Limited.				
<b>2.1</b>	The Invitation for Bid/ Tender is for <b>PROCUREMENT OF</b>				
<b>General</b>	The Purchaser is: The consignee details and Delivery Location for the goods are as under:- Consignee: Delivery Location:				
<b>B. BIDDING DOCUMENT</b>					
<b>ITB clause</b>	<b>Description</b>				
<b>8.1</b>	For <b>clarification purposes</b> only, the communication address is: Attention: _____ Add: _____ Phone no. _____ E-Mail: _____				
<b>C. PREPARATION OF BIDS</b>					
<b>ITB clause</b>	<b>Description</b>				
<b>11.1.1</b>	Additional documents to be submitted by the Bidder with its Part-I (Techno-commercial/ Unpriced bid) : SCC/Scope of Work refers				
<b>12</b>	Additional Provision for Schedule of Rate/ Bid Price are as under:				
<b>12 &amp; 13</b>	Whether BGL will be able to avail input tax credit in the instant tender : Not Applicable				
<b>12.3</b>	Transit Insurance shall be arranged by :- <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;"><b>BGL</b></td> <td></td> </tr> <tr> <td style="text-align: center;"><b>SUPPLIER</b></td> <td></td> </tr> </table> <p>In case, transit insurance to be arranged by BGL, the details of Transit Insurance Policy are as under:-</p>	<b>BGL</b>		<b>SUPPLIER</b>	
<b>BGL</b>					
<b>SUPPLIER</b>					
<b>12.4</b>	Delivery basis shall be <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;"><b>FOT/FOR Site, ..//</b></td> <td></td> </tr> <tr> <td style="text-align: center;"><b>EX-WORKS/FOT Dispatch point, .....(Bidder to indication location)</b></td> <td></td> </tr> </table>	<b>FOT/FOR Site, ..//</b>		<b>EX-WORKS/FOT Dispatch point, .....(Bidder to indication location)</b>	
<b>FOT/FOR Site, ..//</b>					
<b>EX-WORKS/FOT Dispatch point, .....(Bidder to indication location)</b>					

(Sign & Seal of Bidder)



**Tender for Procurement of Turbine Flow Meter (Custody Meter) and EVC at Mother Station to get 4-20 mA flow signal to automatize Odorization Unit at Vijayawada GA**  
**Bid Document No: BGL/713/2025-26**

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<b>13.7 and 13.8</b>	<b>Details of Buyer:</b> <table border="1"> <tr> <td style="background-color: #90EE90;"><b>Consignee</b></td> <td></td> </tr> <tr> <td style="background-color: #90EE90;"><b>PAN No.</b></td> <td></td> </tr> <tr> <td style="background-color: #90EE90;"><b>GST no.</b></td> <td></td> </tr> <tr> <td style="background-color: #90EE90;"><b>BGL Bank details</b></td> <td></td> </tr> </table>	<b>Consignee</b>		<b>PAN No.</b>		<b>GST no.</b>		<b>BGL Bank details</b>	
<b>Consignee</b>									
<b>PAN No.</b>									
<b>GST no.</b>									
<b>BGL Bank details</b>									
<b>14</b>	The currency of the Bid shall be INR								
<b>15</b>	The bid validity period shall be 3 months from final 'Bid Due Date'.								
<b>16.1, 16.10 and 38.6</b>	In case 'Earnest Money / Bid Security' or "Contract Performance Security" is in the form of 'Demand Draft' or 'Banker's Cheque', the same should be favor of _____, payable at								
<b>D. SUBMISSION AND OPENING OF BIDS</b>									
<b>ITB clause</b>	<b>Description</b>								
<b>4.0 of IFB</b>	For the submission of physical document as per clause no. 4.0 of IFB, the Owner's address is: Attention: _____ Address: Floor/Room number: City: ZIP Code: Country:								
<b>E. EVALUATION, AND COMPARISON OF BIDS</b>									
<b>ITB clause</b>	<b>Description</b>								
<b>31</b>	Evaluation Methodology is mentioned in Section-II.								
<b>33</b>	The following Purchase Preference Policy will be applicable as per provisions mentioned in tender: i) Micro & Small Enterprises (MSEs)								
<b>F. AWARD OF CONTRACT</b>									
<b>ITB clause</b>	<b>Description</b>								
<b>35</b>	The following designated authority shall be contacted after receipt of Notification of Award for all contractual matters :-								
<b>36.4</b>	Whether part shipment is allowed: <table border="1" style="margin-left: 40px;"> <tr> <td align="center">YES</td> <td></td> </tr> <tr> <td align="center">NO</td> <td></td> </tr> </table>	YES		NO					
YES									
NO									
<b>38</b>	Contract Performance Security/ Security Deposit <table border="1" style="margin-left: 40px;"> <tr> <td align="center">APPLICABLE</td> <td align="center">✓</td> </tr> <tr> <td align="center">NOT APPLICABLE</td> <td></td> </tr> </table> <p>The value/ amount of Contract Performance Security/ Security Deposit</p>	APPLICABLE	✓	NOT APPLICABLE					
APPLICABLE	✓								
NOT APPLICABLE									
<b>40</b>	Whether tendered item is non-split able or not-divisible :								

(Sign & Seal of Bidder)

	<table border="1"> <tr> <td align="center">YES</td> <td></td> </tr> <tr> <td align="center">NO</td> <td></td> </tr> </table>	YES		NO	
YES					
NO					
<b>40</b>	Provision of AHR Item : <table border="1"> <tr> <td align="center">APPLICABLE</td> <td></td> </tr> <tr> <td align="center">NOT APPLICABLE</td> <td></td> </tr> </table>	APPLICABLE		NOT APPLICABLE	
APPLICABLE					
NOT APPLICABLE					
<b>48</b>	Applicability of provisions relating to Startups: <table border="1"> <tr> <td align="center">APPLICABLE</td> <td></td> </tr> <tr> <td align="center">NOT APPLICABLE</td> <td></td> </tr> </table>	APPLICABLE		NOT APPLICABLE	
APPLICABLE					
NOT APPLICABLE					
<b>Clause no.38 of GCC</b>	<b>Fall Clause:</b> <table border="1"> <tr> <td align="center">APPLICABLE</td> <td></td> </tr> <tr> <td align="center">NOT APPLICABLE</td> <td></td> </tr> </table>	APPLICABLE		NOT APPLICABLE	
APPLICABLE					
NOT APPLICABLE					
<b>SCC</b>	Documents required for accepting the Goods:  Refer cl.no. ....of SCC.				

(Sign & Seal of Bidder)



**Tender for Procurement of Turbine Flow Meter (Custody Meter)  
and EVC at Mother Station to get 4-20 mA flow signal to automize  
Odorization Unit at Vijayawada GA  
Bid Document No: BGL/713/2025-26**

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**SECTION -4**  
**AGREED TERMS AND CONDITIONS**

(Sign & Seal of Bidder)



**Tender for Procurement of Turbine Flow Meter (Custody Meter)  
and EVC at Mother Station to get 4-20 mA flow signal to automatize  
Odorization Unit at Vijayawada GA  
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**Agreed Terms and Conditions:** Following shall be duly filled in and should be returned by the bidder along with each copy of Un-priced part of Bid /Offer. Clauses confirmed hereunder should not be repeated in the Bid. ALL THE COMMERCIAL TERMS & CONDITIONS SHOULD BE INDICATED IN THIS FORMAT ONLY.

Sl.	DESCRIPTION	BIDDER'S CONFIRMATION
1	Bidder's name (further correspondences will be done in this name)	
	Bidder's address	
	Phone No/ Mob. No.	
	E-mail ID	
	Name & designation of the person signing the bid (attach power of attorney with ID Proof)	
2.	Please confirm the currency of quoted prices is in Indian Rupees.	
3.	Confirm quoted prices will remain firm and fixed till complete execution of the order.	
4	Rate of applicable <b>GST (CGST &amp; SGST/UTGST or IGST)</b>	CGST: ..... % Plus SGST/UTGST...% Total: .....% Or IGST:..... %
4.1	Whether in the instant tender services/works are covered in reverse charge rule of <b>GST (CGST &amp; SGST/UTGST or IGST)</b>	Yes/ No In case of Yes, please specify <b>GST (CGST &amp; SGST/UTGST or IGST)</b> payable by: BGL:.....% Bidder:.....%
4.2	Service Accounting Codes (SAC)/Harmonized System of Nomenclature (HSN) code	
4.3	We hereby confirm that the quoted prices is in compliance with the Section 171 of CGST Act/ SGST Act as mentioned as clause no. 13.10 of ITB	CONFIRMED
5.	i) Confirm acceptance of relevant Terms of Payment specified in the Bid Document. ii) In case of delay, the bills shall be submitted after deducting the price reduction due to delay.	
6.	Confirm that Contract Performance Security will be furnished as per Bid Document.	CONFIRMED
7.	Confirm that Contract Performance Security shall be from any Indian scheduled bank or a branch of an International bank situated in India and registered with Reserve bank of India as scheduled foreign bank. However, in case of bank guarantees from banks other than the Nationalised Indian banks, the bank must be a commercial bank having net worth in excess of Rs 100 crores and a declaration to this effect shall be made by such commercial bank either in the Bank Guarantee itself or separately on its letterhead.	CONFIRMED
8.	Confirm compliance to Completion Schedule as specified in Bid document. Confirm contract period shall be reckoned from the date of Fax of Acceptance.	CONFIRMED

(Sign & Seal of Bidder)



**Tender for Procurement of Turbine Flow Meter (Custody Meter)  
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**Agreed Terms and Conditions:** Following shall be duly filled in and should be returned by the bidder along with each copy of Un-priced part of Bid /Offer. Clauses confirmed hereunder should not be repeated in the Bid. ALL THE COMMERCIAL TERMS & CONDITIONS SHOULD BE INDICATED IN THIS FORMAT ONLY.

Sl.	DESCRIPTION	BIDDER'S CONFIRMATION
9.	Confirm acceptance of Price Reduction Schedule for delay in completion schedule specified in Bid document.	CONFIRMED
10.	a) Confirm acceptance of all terms and conditions of Bid Document (all sections). b) Confirm that printed terms and conditions of bidder are not applicable.	CONFIRMED
11.	Confirm your offer is valid for period specified in BDS from Final/Extended due date of opening of Techno-commercial Bids.	CONFIRMED
12	Confirm that scanned copy of the EMD/Bid Bond has been submitted thru e-tender portal and the original BG/DD has been sent thru courier [Note: Submission of original is not applicable for online banking transaction].	CONFIRMED
13.	Please furnish EMD/Bid Security details : (if applicable) a) EMD/ Bid Security No. & date b) Value c) Validity	
14.	Confirm acceptance to all provisions of ITB read in conjunction with Bid Data Sheet (BDS).	CONFIRMED
15.	Confirm that Annual Reports for the last three financial years are furnished alongwith the Un-priced Bid.	CONFIRMED
16.	Confirm the none of Directors of bidder is a relative of any Director of Owner or the bidder is a firm in which any Director of Owner/ BGL or his relative is not a partner.	CONFIRMED
17.	All correspondence must be in ENGLISH language only.	CONFIRMED
18.	Owner reserves the right to make any change in the terms & conditions of the TENDER/BIDDING DOCUMENT and to reject any or all bids.	CONFIRMED
19.	Confirm that all Bank charges associated with Bidder's Bank shall be borne by Bidder.	CONFIRMED
20.	Confirm that, in case of contradiction between the confirmations provided in this format and terms & conditions mentioned elsewhere in the offer, the confirmations given in this format shall prevail.	CONFIRMED
21	Confirm that no Price disclosing files have been attached with unpriced/technical bid. * In case price disclosing files are attached in techno-commercial unpriced bid area, bid will be summarily rejected as per clause 19.0 of ITB.	CONFIRMED
22	Confirm that any correction in documents submitted in the Un-priced part has been initialed and with digital signatures of the authorized person.	CONFIRMED
23	Please confirm whether you are MSME and if so then you have submitted Documentary evidence that you are a Micro, Small and Medium Enterprises.	

sBidder confirms that in case of conflicting version of various terms and conditions at different (Sign & Seal of Bidder)



**Tender for Procurement of Turbine Flow Meter (Custody Meter)  
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Bid Document No: BGL/713/2025-26**

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places in his offer, the confirmation furnishes at above shall be dealt as final.

**Bidder Signature**  
**Name**  
**Designation**  
**Seal**

(Sign & Seal of Bidder)

**SECTION -5**

**PROPOSAL FORMS & FORMATS**

(Sign & Seal of Bidder)



**Tender for Procurement of Turbine Flow Meter (Custody Meter) and EVC at Mother Station to get 4-20 mA flow signal to automatize Odorization Unit at Vijayawada GA**  
**Bid Document No: BGL/713/2025-26**

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**FORM F-1**

**BIDDER'S GENERAL INFORMATION**

To  
**Bhagyanagar Gas Limited**

TENDER NO:

1	Bidder's Name	M/s.....
2	Status of Firm	Proprietorship Firm/Partnership firm/ Limited Liability Partnership (LLP) firm/ Public Limited/ Pvt. Limited/ Govt. Dept. / PSU/ Others  If Others Specify: _____  [Enclose relevant certificates / partnership deed/certificate of Registration, as applicable]
3a	Name of Proprietor/ Partners/ Directors of the firm/company including their Father's Name and residential address, Aadhar No., Pan Card Details & DIN Nos.  [As per clause for 'One Bid Per Bidder' under Section-III of Tender Document]  If required, a separate sheet may be enclosed for providing the above details.	1. 2. 3.
3b	Name of Power of Attorney holders of Bidder	
4	Number of years in operation	
5	Address of Registered Office:	City: District: State: PIN/ZIP:
6	Bidder's address where order/contract is to be placed *	City: District: State: PIN/ZIP:
7	Address from where Goods/ Services are to be dispatched/ provided along with GST no. (In case supply of Goods / Services are from multiple locations, addresses and GST no. of all such locations are to be provided).	City: District: State: PIN/ZIP: GST No.:
8	Telephone Number & Contact Information address where Order/Contract is to be placed	(Country Code) (Area Code) (Telephone No.) Mobile No. : ..... e-mail ID: .....
9	Website details	

(Sign & Seal of Bidder)



**Tender for Procurement of Turbine Flow Meter (Custody Meter)  
and EVC at Mother Station to get 4-20 mA flow signal to automate  
Odorization Unit at Vijayawada GA  
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10	Mobile Number of concerned personnel/authorized signatory	_____
11	ISO Certification, if any	Yes / No  <i>[If yes, please furnish details]</i>
12	PAN No.	
13	GST No. (refer sl. no. 7 above)	
14a	Whether Micro or Small Enterprise	Yes / No <i>(If Yes, Bidder to submit requisite documents as specified in ITB: Clause No. 39)</i>
14b	Whether MSE is owned by SC/ST Entrepreneur(s)	Yes / No <i>(If Yes, Bidder to submit requisite documents as specified in ITB: Clause No. 39)</i>
14c	Whether MSE is owned by Women	Yes / No <i>(If Yes, Bidder to submit requisite documents as specified in ITB: Clause No. 39)</i>
15a	Whether Bidder is a Startup or not	Yes / No <i>(, Bidder to submit requisite documents as specified in ITB: Clause No. 48)</i>
15b	In case Bidder is a Startup, confirm the following: (i) Date of its incorporation/ registration [The certificate shall only be valid for the entity upto ten years from the date of its incorporation/ registration] (ii) Whether turnover for any financial years since incorporation/ registration has exceeded Rs.100 Crores.	

Note: \*BGL intends to place the Order/Contract directly on the address from where Goods are produced/dispached. In case, Bidder intends to have Order/ Contract with some other address and also for supply of Goods from multiple locations, Bidder is required to provide the address on which Order/ Contract is to be placed as mentioned at sl.no.6 above and details of locations as mentioned at sl. no. 7 above.

Place: \_\_\_\_\_ [Signature of Authorized Signatory of Bidder]  
Date: \_\_\_\_\_ Name: \_\_\_\_\_  
Designation: \_\_\_\_\_  
Seal: \_\_\_\_\_

(Sign & Seal of Bidder)



**Tender for Procurement of Turbine Flow Meter (Custody Meter)  
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**FORM F-2**

**DECLARATION FOR BID SECURITY**

To  
Bhagyanagar Gas Limited  
Parisrama Bhavan  
TSIDC Building, Basheer Bagh  
Hyderabad – 500 004

Dear Sir

After examining / reviewing provisions of above referred tender documents (including all corrigendum/ Addenda), we M/s \_\_\_\_\_ (*Name of Bidder*) have submitted our offer/ bid no. ....

We, M/s \_\_\_\_\_ (*Name of Bidder*) hereby understand that, according to your conditions, we are submitting this Declaration for Bid Security.

We understand that we will be put on watch list/holiday/ banning list (as per policies of BGL in this regard), if we are in breach of our obligation(s) as per following:

- (a) have withdrawn/modified/amended, impairs or derogates from the tender, my/our Bid during the period of bid validity specified in the form of Bid; or
- (b) having been notified of the acceptance of our Bid by the BGL during the period of bid validity:
  - (i) fail or refuse to execute the Contract, if required, or
  - (ii) fail or refuse to furnish the Contract Performance Security, in accordance provisions of tender document.
  - (iii) fail or refuse to accept 'arithmetical corrections' as per provision of tender document.
- (c) having indulged in corrupt/fraudulent /collusive/coercive practice as per procedure.

Place:

[Signature of Authorized Signatory of Bidder]

Date:

Name:

Designation:

Seal:

(Sign & Seal of Bidder)



**Tender for Procurement of Turbine Flow Meter (Custody Meter)  
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**FORM F-3**

**PROFORMA OF "BANK GUARANTEE" FOR "EARNEST MONEY DEPOSIT/  
BID SECURITY"**

(To be stamped in accordance with the Stamp Act)

To, M/s Bhagyanagar Gas Limited  _____	<b>Bank Guarantee No.</b>	
	<b>Date of BG</b>	
	<b>BG Valid up to (Expiry date)</b>	
	<b>Claim period up to (There should be three months gap between expiry date of BG &amp; Claim period)</b>	
	<b>Stamp Sl. No./e-Stamp Certificate No.</b>	

**Dear Sir(s),**

In accordance with Tender Document under your reference No \_\_\_\_\_ M/s.

\_\_\_\_\_ having their Registered / Head Office at \_\_\_\_\_ (hereinafter called the Tenderer/Bidder), wish to participate in the said tender for \_\_\_\_\_

As an irrevocable Bank Guarantee against Earnest Money Deposit for the amount of \_\_\_\_\_ is required to be submitted by the bidder as a condition precedent for participation in the said Tender Document which amount is liable to be forfeited on the happening of any contingencies mentioned in the Tender Document.

We, \_\_\_\_\_ the \_\_\_\_\_ Bank at \_\_\_\_\_ having our \_\_\_\_\_ Head Office \_\_\_\_\_ (Local Address) and having net worth more than Rs. 100,00,00,000.00 [Rupees One Hundred Crores] or its equivalent in foreign currency, guarantee and undertake to pay immediately on demand without any recourse to the Bidder by Bhagyanagar Gas Limited, the amount \_\_\_\_\_ without any reservation, protest, demur and recourse. Any such demand made by Bhagyanagar Gas Limited, shall be conclusive and binding on us irrespective of any dispute or difference raised by the Bidder.

This guarantee shall be irrevocable and shall remain valid up to \_\_\_\_\_ [this date should be two (02) months beyond the validity of the bid]. If any further extension of this guarantee is required, the same shall be extended to such required period on receiving instructions from Bidder M/s. \_\_\_\_\_ on whose behalf this guarantee is issued.

(Sign & Seal of Bidder)



**Tender for Procurement of Turbine Flow Meter (Custody Meter) and EVC at Mother Station to get 4-20 mA flow signal to automatize Odorization Unit at Vijayawada GA**  
**Bid Document No: BGL/713/2025-26**

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Notwithstanding anything contained herein:

a) The Bank's liability under this Guarantee shall not exceed (currency in figures) . . . . .  
 . . . . . (currency in words only ) . . . . .

b) This Guarantee shall remain in force upto \_\_\_\_\_ (this expiry date of BG should be two months beyond the validity of bid) and any extension(s) thereof; and

c) The Bank shall be released and discharged from all liability under this Guarantee unless a written claim or demand is issued to the Bank on or before the midnight of .....(indicate date of expiry of claim period which includes minimum three months from the expiry of this Bank Guarantee) and if extended, the date of expiry of the last extension of this Guarantee. If a claim has been received by us within the said date, all the rights of BGL under this Guarantee shall be valid and shall not cease until we have satisfied that claim.

The Bank doth hereby declare that Shri /Ms. \_\_\_\_\_ who is the \_\_\_\_\_ (designation) of the Bank is authorized to sign this undertaking on behalf of the Bank and to bind the Bank thereby.

In witness whereof the Bank, through its authorized officer, has set its hand and stamp on this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_ at \_\_\_\_\_.

Details of next Higher Authority of the Officials who have issued the Bank Guarantee:

Name .....  
 Designation .....

WITNESS:

(SIGNATURE)  
 (NAME)

(SIGNATURE)  
 (NAME)  
 Designation with Bank Stamp  
 E-Mail ID:  
 Telephone/Mobile No. :  
 Date:

**(OFFICIAL ADDRESS)**

Confirmation Email Id :  
 IFSC Code of Issuing Bank:

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(Sign & Seal of Bidder)



**Tender for Procurement of Turbine Flow Meter (Custody Meter)  
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**INSTRUCTIONS FOR FURNISHING "BID SECURITY DEPOSIT/ EARNEST  
MONEY" BY "BANK GUARANTEE"**

1. The Bank Guarantee by Bidders will be given on non-judicial stamp paper as per "Stamp Duty" applicable. The non-judicial stamp paper should be in the name of the issuing Bank.
2. The expiry date should be arrived at in accordance with "ITB: Clause-16.1".
3. The Bank Guarantee by bidders will be given from Bank as specified in "ITB: Clause-16.3".
4. A letter from the issuing Bank of the requisite Bank Guarantee confirming that said Bank Guarantee / all future communication relating to the Bank Guarantee shall be forwarded to the Purchaser at its address as mentioned at "ITB".
5. Bidder must indicate the full postal address of the Bank along with the Bank's E-mail / Fax / Phone from where the Earnest money Deposit has been issued at sl. no.2 of form-5 as per proforma provided below.
6. In case BG is issued directly by a bank outside India (if allowed), it should be executed on Letter Head of the Bank and should be advised and made payable through their Indian Branch/Corresponding Bank in India (Applicable for ICB tender)

**MATTER TO BE MENTIONED IN COVERING LETTER TO BE SUBMITTED BY VENDOR  
ALONG WITH BANK GUARANTEE**

1	<b>BANK GUARANTEE NO</b>	:				
2	<b>VENDOR NAME / VENDOR CODE</b>	:	<b>NAME</b>			
			<b>VENDOR CODE</b>			
3	<b>BANK GUARANTEE AMOUNT</b>	:				
4	<b>TENDER NO</b>	:				
5	<b>NATURE OF BANK GUARANTEE</b>	:				
	<b>(Please Tick (√) Whichever is Applicable</b>		<b>PERFORMANCE BANK GUARANTEE</b>	<b>SECURITY DEPOSIT</b>	<b>EMD</b>	<b>ADVANCE</b>
6	<b>BG ISSUED BANK DETAILS</b>		(A) <b>EMAIL ID</b>	:		
			(B) <b>ADDRESS</b>	:		
			(C) <b>PHONE NO</b>	:		

(Sign & Seal of Bidder)



**Tender for Procurement of Turbine Flow Meter (Custody Meter) and EVC at Mother Station to get 4-20 mA flow signal to automatize Odorization Unit at Vijayawada GA**  
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**FORM F-4**

**PROFORMA OF "BANK GUARANTEE" FOR "CONTRACT PERFORMANCE SECURITY / SECURITY DEPOSIT"**  
**(ON NON-JUDICIAL STAMP PAPER OF APPROPRIATE VALUE)**

To, M/s Bhagyanagar Gas Limited  _____	<b>Bank Guarantee No.</b>	
	<b>Date of BG</b>	
	<b>BG Valid up to (Expiry date)</b>	
	<b>Claim period up to (There should be three months gap between expiry date of BG &amp; Claim period)</b>	
	<b>Stamp Sl. No./e-Stamp Certificate No.</b>	

**Dear Sir(s),**

M/s. \_\_\_\_\_ having registered office at \_\_\_\_\_ (herein after called the "contractor/supplier/consultant" which expression shall wherever the context so require include its successors and assignees) have been placed/ awarded the job/work of \_\_\_\_\_ vide PO/LOA /FOA No. \_\_\_\_\_ dated for Bhagyanagar Gas Limited having Registered office: 2<sup>nd</sup> Floor, Parishram Bhavan, TSIDC Building, Basheerbagh, Hyderabad 500004 (herein after called the "BGL" which expression shall wherever the context so require include its successors and assignees).

The Contract conditions provide that the Supplier/Contractor/Consultant shall pay a sum of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) as full Contract Performance Guarantee in the form therein mentioned. The form of payment of Contract Performance Guarantee includes guarantee executed by Nationalized Bank/Scheduled Commercial Bank, undertaking full responsibility to indemnify BHAGYANAGAR GAS LIMITED, in case of default.

The said M/s. \_\_\_\_\_ has approached us and at their request and in consideration of the premises we having our office at \_\_\_\_\_ have agreed to give such guarantee as hereinafter mentioned.

1. We \_\_\_\_\_ and having net worth more than Rs. 100,00,00,000.00 [Rupees One Hundred Crores] or its equivalent in foreign currency, hereby undertake to give the irrevocable & unconditional guarantee to you that if default shall be made by M/s \_\_\_\_\_ in performing any of the terms and conditions of the tender/order/contract or in payment of any money payable to BHAGYANAGAR GAS LIMITED we shall on first demand pay without demur, contest, protest and/ or without any recourse to the contractor to BGL in such manner as BGL may direct the said amount of Rupees \_\_\_\_\_ only or such portion thereof not exceeding the said sum as you may require from time to time.

(Sign & Seal of Bidder)

2. You will have the full liberty without reference to us and without affecting this guarantee, postpone for any time or from time to time the exercise of any of the powers and rights conferred on you under the order/contract with the said \_\_\_\_\_ M/s. \_\_\_\_\_ and to enforce or to forbear from endorsing any powers or rights or by reason of time being given to the said M/s. \_\_\_\_\_ and such postponement forbearance would not have the effect of releasing the bank from its obligation under this debt.
3. Your right to recover the said sum of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) from us in manner aforesaid is absolute & unequivocal and will not be affected or suspended by reason of the fact that any dispute or disputes have been raised by the said M/s. \_\_\_\_\_ and/or that any dispute or disputes are pending before any officer, tribunal or court or arbitrator or any other authority/forum and any demand made by you in the bank shall be conclusive and binding. The bank shall not be released of its obligations under these presents by any exercise by you of its liberty with reference to matter aforesaid or any of their or by reason or any other act of omission or commission on your part or any other indulgence shown by you or by any other matter or changed what so ever which under law would, but for this provision, have the effect of releasing the bank.
4. The guarantee herein contained shall not be determined or affected by the liquidation or winding up dissolution or changes of constitution or insolvency of the said Supplier/Contractor/Consultant but shall in all respects and for all purposes be binding and operative until payment of all money due to you in respect of such liabilities is paid.
5. The bank undertakes not to revoke this guarantee during its currency without your previous consent and further agrees that the guarantee shall continue to be enforceable until it is discharged by BGL in writing. However, if for any reason, the Supplier/Contractor/Consultant is unable to complete the supply/work within the period stipulated in the order/contract and in case of extension of the date of delivery/completion resulting extension of defect liability period/guarantee period of the Supplier/Contractor/Consultant fails to perform the supply/work fully, the bank hereby agrees to further extend this guarantee at the instance of the Supplier/Contractor/Consultant till such time as may be determined by BGL. If any further extension of this guarantee is required, the same shall be extended to such required period on receiving instruction from M/s. \_\_\_\_\_ (Supplier/Contractor/Consultant) on whose behalf this guarantee is issued.
6. Bank also agrees that BGL at its option shall be entitled to enforce this Guarantee against the bank (as principal debtor) in the first instant, without proceeding against the Supplier/Contractor/Consultant and notwithstanding any security or other guarantee that BGL may have in relation to the Supplier's/Contractor's/Consultant's liabilities.
7. The amount under the Bank Guarantee is payable forthwith without any delay by Bank upon the written demand raised by BGL. Any dispute arising out of or in relation to the said Bank Guarantee shall be subject to the exclusive jurisdiction of courts at Hyderabad Telangana.
8. Therefore, we hereby affirm that we are guarantors and responsible to you on behalf of the Supplier/Contractor/Consultant up to a total amount of \_\_\_\_\_ (amount of guarantees in words and figures) and we undertake to pay you, upon your first written demand declaring the Supplier/Contractor/Consultant to be in default under the order/contract and without caveat or argument, any sum or sums within the limits of (amounts of guarantee)

(Sign & Seal of Bidder)



**Tender for Procurement of Turbine Flow Meter (Custody Meter) and EVC at Mother Station to get 4-20 mA flow signal to automatize Odorization Unit at Vijayawada GA**  
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as aforesaid, without your needing to prove or show grounds or reasons for your demand or the sum specified therein.

9. The Bank doth hereby declare that Shri /Ms. \_\_\_\_\_ who is the \_\_\_\_\_ (designation) of the Bank is authorized to sign this undertaking on behalf of the Bank and to bind the Bank thereby.
10. Notwithstanding anything contained herein:
- a) The Bank's liability under this Guarantee shall not exceed (currency in figures) . . . . . (currency in words only) . . . . .
  - b) This Guarantee shall remain in force upto \_\_\_\_\_ (this date should be expiry date of defect liability period of the Contract) and any extension(s) thereof; and
  - c) The Bank shall be released and discharged from all liability under this Guarantee unless a written claim or demand is issued to the Bank on or before the midnight of .....(indicate date of expiry of claim period which includes minimum three months from the expiry of this Bank Guarantee) and if extended, the date of expiry of the last extension of this Guarantee. If a claim has been received by us within the said date, all the rights of BGL under this Guarantee shall be valid and shall not cease until we have satisfied that claim.

Details of next Higher Authority of the Officials who have issued the Bank Guarantee:

Name .....  
Designation .....

Yours faithfully,  
\_\_\_\_\_  
Bank by its Constituted Attorney  
  
Signature of a person duly  
Authorized to sign on behalf of the  
Bank

**Confirmation Email Id :**

**IFSC Code of Issuing Bank :**

(Sign & Seal of Bidder)



**Tender for Procurement of Turbine Flow Meter (Custody Meter)  
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INSTRUCTIONS FOR FURNISHING  
"CONTRACT PERFORMANCE SECURITY / SECURITY DEPOSIT" BY "BANK  
GUARANTEE"

1. The Bank Guarantee by successful Bidder(s) will be given on non-judicial stamp paper as per 'stamp duty' applicable. The non-judicial stamp paper should be in name of the issuing bank.
2. The Bank Guarantee by Bidders will be given from bank as specified in cl.no. 38.2 of ITB [Section-III] of Tender Document.
3. A letter from the issuing bank of the requisite Bank Guarantee confirming that said Bank Guarantee and all future communication relating to the Bank Guarantee shall be forwarded to Purchaser.
4. Supplier/Contractor/Consultant shall submit attached cover letter (Annexure) while submitting Contract Performance Security / Security Deposit.
5. In case BG is issued directly by a bank outside India (if allowed), it should be executed on Letter Head of the Bank and should be advised and made payable through their Indian Branch/Corresponding Bank in India (Applicable for ICB tender).

MATTER TO BE MENTIONED IN COVERING LETTER TO BE SUBMITTED BY  
VENDOR ALONG WITH BANK GUARANTEE

1	<b>BANK GUARANTEE NO</b>	:				
2	<b>VENDOR NAME / VENDOR CODE</b>	:	<b>NAME</b>			
			<b>VENDOR CODE</b>			
3	<b>BANK GUARANTEE AMOUNT</b>	:				
4	<b>PURCHASE ORDER/ LOA NO</b>	:				
5	<b>NATURE OF BANK GUARANTEE</b>	:				
	<b>(Please Tick (√) Whichever is Applicable</b>		<b>PERFORMANCE BANK GUARANTEE</b>	<b>SECURITY DEPOSIT</b>	<b>EMD</b>	<b>ADVANCE</b>
6	<b>BG ISSUED BANK DETAILS</b>	(A)	<b>EMAIL ID</b>	:		
(B)		<b>ADDRESS</b>	:			
(C)		<b>PHONE NO</b>	:			

(Sign & Seal of Bidder)



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**FORM F-5**

**PROFORMA FOR CONTRACT AGREEMENT**

LOA No. BGL /

Dated -----

Contract Agreement for the work of ----- BHAGYANAGAR GAS Ltd. made on ----- between (Name and Address)-----, hereinafter called the "CONTRACTOR" (which term shall unless excluded by or repugnant to the subject or context include its successors and permitted assignees) of the one part and BHAGYANAGAR GAS LIMITED hereinafter called the "EMPLOYER" (which term shall, unless excluded by or repugnant to the subject or context include its successors and assignees) of the other part.

**WHEREAS**

A. The EMPLOYER being desirous of having provided and executed certain work mentioned, enumerated or referred to in the Tender Documents including Letter Inviting Tender, General Tender Notice, General Conditions of Contract, Special Conditions of Contract, Specifications, Drawings, Plans, Time Schedule of completion of jobs, Schedule of Rates, Agreed Variations, other documents has called for Tender.

B. The CONTRACTOR has inspected the SITE and surroundings of WORK specified in the Tender Documents and has satisfied himself by careful examination before submitting his tender as to the nature of the surface, strata, soil, sub-soil and ground, the form and nature of site and local conditions, the quantities, nature and magnitude of the work, the availability of labour and materials necessary for the execution of work, the means of access to SITE, the supply of power and water thereto and the accommodation he may require and has made local and independent enquiries and obtained complete information as to the matters and thing referred to, or implied in the tender documents or having any connection therewith and has considered the nature and extent of all probable and possible situations, delays, hindrances or interferences to or with the execution and completion of the work to be carried out under the CONTRACT, and has examined and considered all other matters, conditions and things and probable and possible contingencies, and generally all matters incidental thereto and ancillary thereof affecting the execution and completion of the WORK and which might have influenced him in making his tender.

C. The Tender Documents including the Notice Letter Inviting Tender, General Conditions of Contract, Special Conditions of Contract, Schedule of Rates, General Obligations, SPECIFICATIONS, DRAWINGS, PLANS, Time Schedule for completion of Jobs, Letter of Acceptance of Tender and any statement of agreed variations with its enclosures copies of which are hereto annexed form part of this CONTRACT though separately set out herein and are included in the expression "CONTRACT" wherever herein used.

**AND WHEREAS**

The EMPLOYER accepted the Tender of the CONTRACTOR for the provision and the execution of the said WORK at the rates stated in the schedule of quantities of the work and finally approved by EMPLOYER (hereinafter called the "Schedule of Rates") upon the terms and subject to the conditions of CONTRACT.

(Sign & Seal of Bidder)

NOW THIS AGREEMENT WITNESSETH AND IT IS HEREBY AGREED AND DECLARED AS FOLLOWS:-

1. In consideration of the payment to be made to the CONTRACTOR for the WORK to be executed by him, the CONTRACTOR hereby covenants with EMPLOYER that the CONTRACTOR shall and will duly provide, execute and complete the said work and shall do and perform all other acts and things in the CONTRACT mentioned or described or which are to be implied there from or may be reasonably necessary for the completion of the said WORK and at the said times and in the manner and subject to the terms and conditions or stipulations mentioned in the contract.

2. In consideration of the due provision execution and completion of the said WORK, EMPLOYER does hereby agree with the CONTRACTOR that the EMPLOYER will pay to the CONTRACTOR the respective amounts for the WORK actually done by him and approved by the EMPLOYER at the Schedule of Rates and such other sum payable to the CONTRACTOR under provision of CONTRACT, such payment to be made at such time in such manner as provided for in the CONTRACT.

AND

3. In consideration of the due provision, execution and completion of the said WORK the CONTRACTOR does hereby agree to pay such sums as may be due to the EMPLOYER for the services rendered by the EMPLOYER to the CONTRACTOR, such as power supply, water supply and others as set for in the said CONTRACT and such other sums as may become payable to the EMPLOYER towards the controlled items of consumable materials or towards loss, damage to the EMPLOYER'S equipment, materials construction plant and machinery, such payments to be made at such time and in such manner as is provided in the CONTRACT.

It is specifically and distinctly understood and agreed between the EMPLOYER and the CONTRACTOR that the CONTRACTOR shall have no right, title or interest in the SITE made available by the EMPLOYER for execution of the works or in the building, structures or work executed on the said SITE by the CONTRACTOR or in the goods, articles, materials etc., brought on the said SITE (unless the same specifically belongs to the CONTRACTOR) and the CONTRACTOR shall not have or deemed to have any lien whatsoever charge for unpaid bills will not be entitled to assume or retain possession or control of the SITE or structures and the EMPLOYER shall have an absolute and unfettered right to take full possession of SITE and to remove the CONTRACTOR, their servants, agents and materials belonging to the CONTRACTOR and lying on the SITE.

Contractor shall be allowed to enter upon the SITE for execution of the WORK only as a licensee simpliciter and shall not have any claim, right, title or interest in the SITE or the structures erected thereon and the EMPLOYER shall be entitled to terminate such license at any time without assigning any reason. The materials including sand, gravel, stone, loose, earth, rock etc., dug up or excavated from the said SITE shall, unless otherwise expressly agreed under this CONTRACT, exclusively belong to the EMPLOYER and the CONTRACTOR shall have no right to claim over the same and such excavation and materials should be disposed off on account of the EMPLOYER according to the instruction in writing issued from time to time by the ENGINEER-IN-CHARGE.

(Sign & Seal of Bidder)



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In Witness whereof the parties have executed these presents in the day and the year first above written

Signed and Delivered for and on behalf of EMPLOYER	Signed and Delivered for and on behalf of the CONTRACTORS
BHAGYANAGAR GAS LIMITED	(NAME OF THE CONTRACTOR)

.....  
.....  
.....  
.....

Date: .....  
Place: .....

Date: .....  
Place: .....

IN PRESENCE OF TWO WITNESSES

1. ....  
.....  
.....  
.....

2. ....  
.....  
.....  
.....

1. ....  
.....  
.....  
.....

2. ....  
.....  
.....  
.....

(Sign & Seal of Bidder)



**Tender for Procurement of Turbine Flow Meter (Custody Meter) and EVC at Mother Station to get 4-20 mA flow signal to automatize Odorization Unit at Vijayawada GA**  
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**FORM F-6**

**EXCEPTION AND DEVIATION STATEMENT**

NAME OF WORK :

BID DOCUMENT NO. :

Bidder may stipulate exceptions and deviations to Bid Document, if considered unavoidable as per the following format:

SL.NO.	CLAUSE NO.	PAGE NO. OF TENDER DOCUMENT	DEVIATION	REASONS FOR DEVIATION

Any exceptions/deviations brought out by us elsewhere in our Offer shall not be considered as valid and should be ignored by the Owner / Consultant.

NAME OF BIDDER:.....

SIGNATURE OF BIDDER:.....  
& SEAL

Note 1: Bidder is advised not to stipulated deviation to Bid Document until & unless it becomes unavailable. Deviation may lead to rejection of bid and stipulation on 'Bid Rejection Criteria' given in 'Instruction to Bidder' of bid document should be read carefully.

Note 2: All Techno-Commercial exceptions/deviations taken by Tenderer to the stipulations of the Tender Document shall be brought out here (and not in the other parts of offer Document or price offer).

Note 3: Even in case of "No Deviation" this format is to be filled in a 'No Deviation' & submitted along with the offer

(Sign & Seal of Bidder)



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**FORM F-7**

**DECLARATION**

Bhagyanagar Gas Limited  
Parisrama Bhavan  
TSIDC Building, Basheer Bagh  
Hyderabad – 500 004

Dear Sir(s),

1. We confirm and declare that we are not under any liquidation, court receiver ship or similar proceedings.
1. Further we confirm and declare that we have not been put on Holiday by BGL/GAIL/HPCL or not have banned or delisted by any Government or Quasi-Government agencies or Public Sector Undertaking. If you have been banned delisted then this fact must be clearly stated.

SIGNATURE OF THE BIDDER:.....

NAME OF THE BIDDER:.....

(Sign & Seal of Bidder)



**Tender for Procurement of Turbine Flow Meter (Custody Meter)  
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**FORM F-8 (i)**

**LETTER OF AUTHORITY**

**PROFORMA FOR LETTER OF AUTHORITY FOR ATTENDING THE UN-PRICE  
BID OPENING AND PRICE BID OPENING**

No.

Date:

Bhagyanagar Gas Limited  
Parisrama Bhavan  
TSIDC Building, Basheer Bagh  
Hyderabad – 500 004

Dear Sir,

We \_\_\_\_\_ hereby authorize following representative(s) to attend un-priced bid opening and price bid opening and for any other correspondence and communication against above Bidding Document:

Name & Designation \_\_\_\_\_ Signature \_\_\_\_\_

Name & Designation \_\_\_\_\_ Signature \_\_\_\_\_

We confirm that we shall be bound by all commitments made by aforementioned authorized representatives.

Yours faithfully,

Signature

Name & Designation  
For and on behalf of

***Note: This letter of authority should be on the letterhead of the bidder and should be signed by a person competent and having the power of attorney to bind the bidder.***

***Not more than two persons are permitted to attend techno –commercial un-priced and price bid opening.***

(Sign & Seal of Bidder)



**Tender for Procurement of Turbine Flow Meter (Custody Meter)  
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**FORM F-8(ii)**

**LETTER OF AUTHORITY**

**PROFORMA of Letter of Authority for Bid  
Negotiations and Signing the Agreement**

No.

Date:

**Bhagyanagar Gas Limited (BGL)**  
Parishram Bhavan,  
TSIDC Building,  
Basheer Bagh,  
Hyderabad – 500 004

Attn:

Sub: Tender No.

Dear Sirs,

We.....do hereby confirm that (name and address) of Mr. Messers (name and address) is/are authorised to represent us for bid negotiations and to conclude the Agreement on our behalf with you against your above cited tender for.....

We confirm that we shall be bound by all and whatsoever our representatives shall commit.

Yours faithfully

Signature

Signature of Mr.  
Is attested

Name and Designation  
for & on behalf of BIDDER

Note:

This letter of Authority should be on the letterhead of the Bidders and should be signed by a person competent and having the power of attorney (power of attorney shall be annexed)to bind the bidder.

(Sign & Seal of Bidder)



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**FORM F-9**

**DETAILS OF P.F. REGISTRATION**

Bhagyanagar Gas Limited  
Parisrama Bhavan  
TSIDC Building, Basheer Bagh  
Hyderabad – 500 004

Dear Sir(s),

We confirm that the following PF account is under operation and shall be used for all PF related activities for the labour engaged by us for the work (awarded to us).

PF REGISTRATION NO. :

DISTRICT & STATE:

SIGNATURE OF THE BIDDER:.....

NAME OF THE BIDDER:.....

(Sign & Seal of Bidder)



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**FORM F-10**

**FINANCIAL SITUATION**

**FORMAT FOR CHARTERED ACCOUNTANT CERTIFICATE FOR FINANCIAL**

**CAPABILITY OF THE BIDDER**

We have verified the Annual Accounts and other relevant records of M/s.....  
..... (Name of the bidder) and certify the following:-

**A. ANNUAL TURNOVER OF LAST 3 YEARS**

<b>Year</b>	<b>Amount (Currency)</b>
<b>Year 1: 2024-25</b>	
<b>Year 2: 2023-24</b>	
<b>Year 3: 2022-23</b>	

**B. FINANCIAL DATA FOR LAST AUDITED FINANCIAL YEAR**

<b>Description</b>	<b>Year : 2024-25</b>
	<b>Amount (Currency)</b>
1. Current Assets	
2. Current Liability	
3. Working Capital (Current Assets-Current Liability)	
4. Net worth (Paid up share capital and Free Reserves & Surplus)	

Name of Audit Firm/  
Chartered Accountant  
Date:

[Signature of Authorized Signatory]  
Name:  
Designation:  
Seal:  
Membership No.:

**UDIN:**

(Sign & Seal of Bidder)



**Tender for Procurement of Turbine Flow Meter (Custody Meter)  
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**FORM F-11**

**FORMAT FOR CERTIFICATION FROM BANK IF THE BIDDER'S WORKING  
CAPITAL IS INADEQUATE  
(To be provided on Bank's letter head)**

Date:

Bidder's Name: \_\_\_\_\_  
Tender No.: \_\_\_\_\_

To  
M/s Bhagyanagar Gas Ltd  
2<sup>nd</sup>Floor, TSIDC Building,  
Parisrama Bhavan, Basheer bagh,  
Hyderabad – 500004

Dear Sir,  
Certified that M/s \_\_\_\_\_ (Name of the bidder with detailed address) is an existing customer of our Bank whose SB/Current Account No. \_\_\_\_\_ . It is confirmed that against Tender No. \_\_\_\_\_ dated **20...** for “\_\_\_\_\_” (job description as per tender document), M/s \_\_\_\_\_ (Name of the Bank with address) confirms availability of line of credit to M/s \_\_\_\_\_ (Name of the Bidder) for at least an amount of Rs./ USD \_\_\_\_\_ (i.e minimum working capital requirement as per BEC, Vol I. of II)

It is also confirmed that the net worth of the Bank is more than INR 1(one) Billion [Rs.100Crores].

Yours Truly,

For \_\_\_\_\_

(Authorized Signatory) Name  
of the Signatory:  
Designation:  
Registration No.

Stamp of Bank

Signature of Bidder Name  
of Bidder:  
Designation:  
Seal:

(Sign & Seal of Bidder)

**FORMAT :12**

**INTEGRITY PACT**

**INTRODUCTION:**

M/s Bhagyanagar Gas Ltd (BGL) as one of its endeavour to maintain and foster most ethical and corruption free business environment, have decided to adopt the Integrity Pact to ensure that all activities and transactions between the Company (BGL) and its Counterparties (Bidders, Contractors, Vendors, Suppliers, Service Providers/Consultants etc.) are handled in a fair and transparent manner, completely free of corruption. Considering the above, the details mentioned at attached Annexure-1 are applicable as stated in Instruction to Bidders of Bid Document in addition to the existing stipulation regarding Corrupt and Fraudulent Practices. The attached copy of the Integrity Pact at Annexure- 2 shall be included in the Bid submitted by the bidder In case a bidder does not sign the Integrity Pact, his bid shall be liable for rejection.

**ANNEXURE-1**

**Bidder is required to sign the Integrity Pact with BGL as per format & terms and conditions enclosed with tender. In case a bidder does not sign the Integrity Pact, his bid shall be liable for rejection.**

**I. COMMITMENTS AND OBLIGATIONS OF THE “COUNTERPARTY”**

- a) The Counterparty, directly or indirectly (through agent, consultant, advisor, etc.), shall not pay any bribe/ influence or give undue/ unlawful benefit to anyone to gain undue advantage in dealing with BGL.
- b) The Counterparty will not engage in collusion of any kind including price fixation etc. with other Counterparts.
- c) The counterparty will not pass BGL’s confidential information to any third party unless specifically authorized by BGL in writing.
- d) The Counterparties shall promote and observe best ethical practices within their respective organizations.
- e) The Counterparty shall inform the Vigilance Authorities of BGL:
  - i) If it received any demand, directly or indirectly, for a bribe/ favour or any illegal gratification/ payment / benefit;
  - ii) If it comes to know of any unethical or illegal payment / benefit;
  - iii) If it makes any payment to any BGL associate.
- f) The Counterparty shall not make any false or misleading allegations against BGL or its associates.

**II. VIOLATIONS & CONSEQUENCES:**

- a) If a Counterparty commits a violation of its Commitments and Obligations under the Integrity Pact Programme during bidding process, their entire Earnest Money Deposit/ Bid Security, would be forfeited and in addition, they may be blacklisted from the GAIL/ BGL/HPCL business in future.
- b) In case of violation of the Integrity pact by Counterparty after award of the Contract, BGL shall be entitled to terminate the Contract. BGL would forfeit the security deposits, encash the bank guarantee (s) and other payments payable to Counterparty in such cases,
- c) BGL may ban/ blacklist/ put on holiday and exclude the Counterparty from future dealings until BGL is satisfied that the Counterparty shall not commit any such violation in future.

(Sign & Seal of Bidder)



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- d) In addition to above, BGL reserves its right to initiate criminal proceedings against the violating Counterparty, if the allegations by Counterparty are found frivolous, untrue and misleading and may also impose exemplary cost for the same.

**INDEPENDENT EXTERNAL MONITORS (IEMS)**

Presently the panel consisting of the following Independent External Monitors (IEMs) have been appointed by BGL, in terms of Integrity Pact(IP) which forms part of BGL Tenders / Contracts.

Dr. Gopal Dhawan, email id: [gdhawangeologist@gmail.com](mailto:gdhawangeologist@gmail.com)

Shri. Mukesh Vij, email id: [mukeshvijr@gmail.com](mailto:mukeshvijr@gmail.com)

This panel is authorised to examine / consider all references made to it under this tender. The bidder(s) , in case of any dispute(s) / complaint(s) pertaining to this tender may raise the issue either with the designated tender issuing officer or Nodal Officer (presently -----)- Email -----) in GAIL or directly with the IEMs on the panel or IEM c/o Vigilance Officer ,Bhagyanagar Gas Ltd, 2<sup>nd</sup> Floor, Parisrama Bhavan, TSIDC Building, Basheerbagh,Hyderabad –4

(Sign & Seal of Bidder)

**ANNEXURE-2**

**INTEGRITY PACT**  
**(To be executed on plain paper)**

**Between M/s Bhagyanagar Gas Limited (BGL) (here-in-after referred to as “Principal”).**

**AND**

**\_\_\_\_\_ (here-in-after referred to as “The Bidder/ Contractor”).**

**(Principal and the Bidder / Contractor are here-in-after are referred to individually as “Party” or collectively as “Parties”).**

**PREAMBLE**

The principal intends to award under laid down organizational procedures, contract/s for -----

The principal values full compliance with all relevant laws and regulations, and the principles of economic use of resources, and of fairness and transparency in its relations with its Bidder/s and Contractor/s.

**Section 1 – Commitments of the Principal**

1. The Principal commits itself to take all measures necessary to prevent corruption and to observe the following Principles in this regard:-
  - i) No employee of the principal, either in person or through family members, including relatives, will in connection with the tender for or the execution of a contract, demand or accept a promise for or accept for him/herself or for a third person, any material or immaterial benefit to which he/she is not legally entitled.
  - ii) The principal shall, during the tender process treat all Bidders with equity. The principal undertakes and ensures that before and during the tender process shall provide and share the same information to all Bidders and will not provide to any Bidder confidential / additional information through which one particular Bidder could take an advantage in relation to the tender process or the contract execution.
  - iii) The principal will exclude from the process all known prejudiced persons.
2. If the Principal obtains information on the conduct of any of its employees which is a criminal offence under the Anti-Corruption Laws of India, or if there be a substantive suspicion in this regard, the principal will inform its Vigilance Office and in addition can initiate disciplinary actions.

**Section 2 – Commitments and Undertakings by the Bidder/Contractor**

1. The Bidder / Contractor commits and undertakes to take all measures necessary to prevent malpractices & corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution:
  - i) The Bidder / Contractor undertakes not to, directly or through any other person or firm offer, promise or give or influence to any employee of the Principal associated with the tender process or the execution of the contract or to any other person on their behalf any material or immaterial benefit to which he / she is not legally entitled in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
  - ii) The Bidder / Contractor undertakes not to enter into any undisclosed agreement or understanding, whether formal or informal with other Bidders. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other action to restrict competitiveness or to introduce cartelization in the bidding process.
  - iii) The Bidder / Contractor undertakes not to commit any offence under the relevant Anticorruption Laws of India. Further, the Bidder / Contractor will not use improperly any information or

(Sign & Seal of Bidder)

document provided by the Principal as part of the business relationship regarding plans, technical proposals and business details, including information contained or transmitted electronically for the purposes of competition or personal gain and will not pass the information so acquired on to others.

- iv) The Bidder / Contractor will, when presenting his bid undertakes to disclose any and all payments made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.
2. The Bidder / Contractor will not instigate and allure third persons / parties to commit offences outlined above or be an accessory to such offences.

**Section 3 – Disqualification from tender process and exclusion from future contracts**

If the Bidder, before the award of contract, has committed a transgression through a violation of any provisions of Section 2 or in any other form so as to put his reliability or credibility as Bidder into question, the Principal shall be entitled to disqualify, put on holiday or blacklist the Bidder including from the future tender process or to terminate the contract, if already signed, on that ground.

1. If the Bidder / Contractor has committed a transgression through a violation of any provisions of Section 2 so as to put his reliability or credibility into question, the Principal shall be entitled to exclude including blacklist and put on holiday the Bidder / Contractor from entering into any GAIL/ BGL /HPCL future contract tender processes. The imposition and duration of the exclusion will be determined by the severity of the transgression. The severity will be determined by the Principal taking into consideration the full facts and circumstances of each case particularly taking into account the number of transgressions, the position of the transgressors within the company hierarchy of the Bidder and the amount of the damage. The exclusion may be imposed for a minimum period of 6 months and maximum of three years.
2. A transgression is considered to have occurred if the Principal after due consideration of the available evidence, concludes that no reasonable doubt is possible.
3. The Bidder with its free consent and without any influence agrees and undertakes to respect and uphold the Principal's absolute rights to resort to and impose such exclusion and further accepts and undertakes not to challenge or question such exclusion on any ground, including the lack of any hearing before the decision to resort to such exclusion is taken. This undertaking is given freely and after obtaining independent legal advice.
4. Subject to the full satisfaction of the Principal, the exclusion of the Bidder / Contractor could be revoked by Principal prematurely if the bidder / contractor can prove that he has restored / recouped the damage caused by him and has installed a suitable corruption prevention system in his organization.

**Section 4 – Forfeiture of EMD / Security Deposits**

1. If the Principal has disqualified the Bidder from the tender process prior to the award in terms of Section 3, and during the execution of the contract, the Principal shall forfeit earnest money deposit / bid security money, encash the bank guarantee including due payments in addition to blacklisting or putting on holiday the bidder and terminating the contract.
2. If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to Section 3, the Principal shall be entitled to demand and recover from the Contractor liquidated damages equivalent to Earnest Money Deposit / Security Deposit / Performance Bank Guarantee.

(Sign & Seal of Bidder)

3. The bidder agrees and undertakes to pay the said amounts without protest or demur subject only to condition that if the Bidder / Contractor can prove and establish that the exclusion of the Bidder from the tender process or the termination of the contract after the contract award has caused no damage or less damage than the amount of the liquidated damages, the Bidder / Contractor shall compensate the Principal only to the extent of the damage in the amount proved.

**Section 5 – Previous transgression**

1. The Bidder swears on oath that no previous transgression has occurred during the last three years with any other Company in any country conforming to the TI approach or including with any other Public Sector Enterprise / Undertaking in India that could justify his exclusion from the tender process.
2. If the Bidder makes incorrect statement on this subject, he shall be disqualified from the tender process or the contract, if already awarded, could be liable to be terminated on this ground.

**Section 6 – Equal treatment to all Bidders / Contractors / Subcontractors**

1. The Bidder / Contractor undertakes to demand from all its sub-contractors, if any, an undertaking and commitment in conformity with this Integrity Pact, and to submit it to the Principal before signing of the contract.
2. The Principal will enter into agreements with similar conditions, as stipulated herein, with all Bidders, Contractors and Subcontractors.
3. The Principal shall disqualify from the tender process all Bidders who do not sign this Pact or violate any of its provisions.

**Section 7 – Criminal charges against violating Bidders /  
Contractors / Sub-contractors**

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the Vigilance Office / Department for initiating appropriate action for above.

**Section 8 – Independent External Monitor / Monitors**

1. The Principal appoints competent and credible Independent External Monitor for this Pact after approval by Central Vigilance Commission. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.
2. The Monitor is not subject to instructions by the representatives of the parties and performs his/her functions neutrally and independently. The Monitor would have access to all Contract documents, whenever required. It will be obligatory for him/ her to treat the information and documents of the Bidders/ Contractors as confidential. He/she reports to the C&MD, BGL.
3. The Bidder (s)/ Contractor (s) accepts that the Monitor has the right to access without restriction to all Project documentation of the Principal including that provided by the Contractor. The Contractor will also grant the Monitor, upon his/her request and demonstration of a valid interest, unrestricted and unconditional access to their project documentation. The same is applicable to Sub-contractors.
4. The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.
5. As soon as the Monitor notices, or believes to notice, a violation of this agreement, he/she will so inform the Management of the Principal and request the Management to discontinue or to take corrective action, or to take other relevant action. The monitor can in this regard submit non-binding recommendations. Beyond

(Sign & Seal of Bidder)



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this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.

6. The Monitor will submit a written report to the C&MD/MD, BGL within 10 days as far as possible from the date of reference or intimation to him by the ‘Principal’ and, should the occasion arise, submit proposals for correcting problematic situations..

7. If the Monitor has reported to the C&MD/MD, BGL, a substantiated suspicion of an offence under relevant IPC/PC Act, and the C&MD, BGL has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Chief Vigilance Officer, the Monitor may also transmit this information directly to the Central Vigilance Commissioner.

8. The word ‘Monitor’ would include both singular and plural.

9. In case of any complaints referred under IP Program, the role of IEMs is advisory and would not be legally binding and it is restricted to resolving the issues raised by an intending bidder regarding any aspect of the tender which allegedly restricts competition or bias towards some bidder.

**Section 9 – Pact Duration**

The provisions of this Pact shall come into effect from the date of signing of this Pact by the both parties. It expires for the Contractor 12 months after the last payment under the respective contract, and for all other Bidders 6 months after the contract has been awarded.

If any claim is made / lodged by either party during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged/determined by the Chairperson of the Principal.

**Section 10 – Miscellaneous provisions**

1. This agreement is subject to Indian Law. Place of performance and jurisdiction is Hyderabad. The Arbitration clause provided in main tender document / contract shall not be applicable for any issue / dispute arising under Integrity Pact.
2. Changes and supplements as well as termination notices, if any, need to be made in writing. Side agreements have not been made.
3. If the Contractor / Bidder is a partnership concern or a consortium, this agreement must be signed by all partners or consortium members.
4. In case any or several of the provisions of this agreement turn out to be void, the remainder of this pact shall remain valid. The parties to this pact however, shall strive to come to an agreement to their original intentions in such a case

-----  
 ---- (Name & Designation)  
 For the Principal

-----  
 (Name & Designation)  
 For the Bidder/Contractor

Place -----  
 -

Witness 1: -----

Date -----

Witness 2: -----

Note:

*Please ensure complete name of bidder’s organization is filled at Page 1 and witnesses’ name with due signature are done prior to submitting with offer.*

(Sign & Seal of Bidder)



**Tender for Procurement of Turbine Flow Meter (Custody Meter) and EVC at Mother Station to get 4-20 mA flow signal to automatize Odorization Unit at Vijayawada GA**  
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**FORMAT-13**

**INDEMNITY BOND**

WHEREAS M/s Bhagyanagar Gas Ltd (hereinafter referred to as “BGL) which expression shall, unless repugnant to the context include its successors and assigns, having its registered office at Parisrama Bhavan, TSIDC Building, Basheer Bagh, Hyderabad – 500 004 has entered into a contract with M/s\*..... (hereinafter referred to as the “Contractor”) which expression shall unless repugnant to the context include its representatives, successors and assigns, having its registered office at \*..... and on the terms and conditions as set out, inter-alia in the [ mention the work order/LOA/Tender No.] and various documents forming part thereof, hereinafter collectively referred to as the ‘CONTRACT’ which expression shall include all amendments, modifications and / or variations thereto.

BGL has also advised the Contractor to execute an Indemnity Bond in general in favour of BGL indemnifying BGL and its employees and Directors from all consequences which may arise out of any prospective litigation or proceedings filed or may be initiated by any third party, including any Banker / financial institution / worker(s) /vendor(s)/ subcontractor(s) etc. who may have been associated or engaged by the Contractor directly or indirectly with or without consent of BGL for above works.

NOW, THEREFORE, in consideration of the promises aforesaid, the Contractor hereby irrevocably and unconditionally undertakes to indemnify and keep indemnified BGL and all its employees, Directors, including Independent Directors, from and against all/any claim(s), damages, loss, which may arise out of any litigations/ liabilities that may be raised by the Contractor or any third party against BGL under or in relation to this contract. The Contractor undertakes to compensate and pay to BGL and/or any of its employees, Directors forth with on demand without any protest the amount claimed by BGL for itself and for and on behalf of its employees, Directors together with direct/indirect expenses including all legal expenses incurred by them or any of them on account of such litigation or proceedings.

AND THE CONTRACTOR hereby further agrees with BGL that:

- (i) This Indemnity shall remain valid and irrevocable for all claims of BGL and/or any of its employees and Directors arising out of said contract with respect to any such litigation / court case for which BGL and/or its employees and Directors has been made party until now or here-in-after.
- (ii) This Indemnity shall not be discharged/revoked by any change/ modification /amendment/assignment of the contract or any merger of the Contractor with other entity or any change in the constitution/structure of the Contractor’s firm/Company or any conditions thereof including insolvency etc. of the Contractor, but shall be in all respects and for all purposes binding and operative until any/all claims for payment of BGL are settled by the Contractor and/or BGL discharges the Contractor in writing from this Indemnity.

The undersigned has full power to execute this Indemnity Bond for and on behalf of the Contractor and the same stands valid.

SIGNED BY :  
For [ Contractor]  
Authorised Representative  
Place:  
Dated:  
Witnesses:

1

2

(Sign & Seal of Bidder)



**Tender for Procurement of Turbine Flow Meter (Custody Meter)  
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**FORM F-14**

**LETTER OF AUTHORITY**

**[Proforma for Letter of Authority for Attending 'Pre-Bid Meetings']**

Ref:

Date:

To,  
M/s. Bhagyanagar Gas Limited

SUB: \_\_\_\_\_.

TENDER NO:

**Dear Sir,**

I/We, \_\_\_\_\_ hereby authorize the following representative(s) for attending Pre-Bid Meeting', 'Un-priced Bid Opening', 'Price Bid Opening' against the above Tender Document:

[1] Name & Designation \_\_\_\_\_ Signature \_\_\_\_\_  
Phone/Cell: \_\_\_\_\_ Fax: \_\_\_\_\_  
E-mail: ..... @ .....

[2] Name & Designation \_\_\_\_\_ Signature \_\_\_\_\_  
Phone/Cell: \_\_\_\_\_ Fax: \_\_\_\_\_  
E-mail: ..... @ .....

We confirm that we shall be bound by all commitments made by aforementioned authorised representative(s).

Place: [Signature of Authorized Signatory of Bidder]  
Date: Name:  
Designation:  
Seal:

Note:

- (i) This "Letter of Authority" should be on the "**letterhead**" of the Firm / Bidder and should be signed by a person competent and having the 'Power of Attorney' to bind the Bidder. Not more than 'two [02] persons per Bidder' are permitted to attend "Pre-Bid Meetings'.
- (ii) Bidder's authorized representative is required to carry a copy of this authority letter while attending the 'Pre-Bid Meetings'.

(Sign & Seal of Bidder)



**Tender for Procurement of Turbine Flow Meter (Custody Meter) and EVC at Mother Station to get 4-20 mA flow signal to automize Odorization Unit at Vijayawada GA**  
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**FORM F-15**

**BIDDER'S QUERIES FOR PRE BID MEETING**

To,  
M/s Bhagyanagar Gas Limited.

Sub : \_\_\_\_\_

Tender No :

SL. NO.	REFERENCE OF TENDER DOCUMENT				BIDDER'S QUERY	BGL'S REPLY
	SEC. NO.	Page No.	Clause No.	Subject		

**NOTE: The Pre-Bid Queries may be sent by fax / e-mail before due date for receipt of Bidder's queries.**

**SIGNATURE OF BIDDER:** \_\_\_\_\_

**NAME OF BIDDER :** \_\_\_\_\_

(Sign & Seal of Bidder)



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**FORM F-16**

**BIDDER'S EXPERIENCE**

To,

M/s Bhagyanagar Gas Limited

SUB: \_\_\_\_\_.

TENDER NO:

Sl. No	Description of the Supply/ Services	PO/ Contract No. and date	Full Postal Address & phone nos. of Client.	Value of Contract/ Order (Specify Currency Amount)	Date of Commencement	Scheduled Completion/ Delivery Period (Months)	Date of Actual Completion	Reasons for delay in execution, if any
(1)	(2)	(3)	(5)	(6)	(7)	(8)	(9)	(10)

Place:

[Signature of Authorized Signatory of Bidder]

Date:

Name:

Designation:

Seal:

**Note: As per Section-II, only documents (Work Order, Completion certificate, Execution Certificate etc.) which have been referred/ specified in the bid shall be considered in reply to queries during evaluation of Bids.**

(Sign & Seal of Bidder)



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**FORM F-17**

**E-Banking Mandate Form  
(To be issued on vendors letter head)**

1. Vendor/customer Name :
2. Vendor/customer Code:
3. Vendor /customer Address:
4. Vendor/customer e-mail id:
5. Particulars of bank account
  - a) Name of Bank
  - b) Name of branch
  - c) Branch code:
  - d) Address:
  - e) Telephone number:
  - f) Type of account (current/saving etc.)
  - g) Account Number:
  - h) RTGS IFSC code of the bank branch
  - i) NEFT IFSC code of the bank branch
  - j) 9 digit MICR code

I/We hereby authorize Bhagyanagar Gas Limited. to release any amount due to me/us in the bank account as mentioned above. I/We hereby declare that the particulars given above are correct and complete. If the transaction is delayed or lost because of incomplete or incorrect information, we would not hold the Bhagyanagar Gas Limited responsible.

(Signature of vendor/customer)

**BANK CERTIFICATE**

We certify that ----- has an Account no. ----- with us and we confirm that the details given above are correct as per our records.

Bank stamp

Date  
Name:

(Signature of authorized officer of bank)

Designation:  
Emp. ID:

(Sign & Seal of Bidder)



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**FORM F-18**

**UNDERTAKING REGARDING SUBMISSION OF ELECTRONIC INVOICE (E-INVOICE AS PER GST LAWS)**

**(to be submitted on letter head along with documents for release of payment)**

To,  
M/s. Bhagyanagar Gas Limited  
-----

SUB: .....  
PO NO: .....

**Dear Sir,**

We \_\_\_\_\_ (Name of the Supplier) hereby confirm that E-Invoice provision as per the GST Law is

- (i) Applicable to us [     ]  
(ii) Not Applicable to us [     ]

**(Supplier is to tick appropriate option (✓ or X) above).**

In case, same is applicable to us, we confirm that we will submit E-Invoice after complying with all the requirements of GST Laws. If the invoice issued without following this process, such invoice can-not be processed for payment by BGL as no ITC is allowed on such invoices. We also confirm that If input tax credit is not available to BGL for any reason attributable to Supplier (both for E-invoicing cases and non-E-invoicing cases), then BGL shall not be obligated or liable to pay or reimburse GST (CGST & SGST/UTGST or IGST) claimed in the invoice(s) and shall be entitled to deduct / setoff / recover such GST amount (CGST & SGST/UTGST or IGST) or Input Tax Credit amount together with penalties and interest, if any, by adjusting against any amounts paid or becomes payable in future to the Supplier under this contract or under any other contract.

Place: [Signature of Authorized Signatory of Bidder]  
Date: Name:  
Designation:  
Seal:

(Sign & Seal of Bidder)



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**FORM F-19**

**NO CLAIM CERTIFICATE  
(TO BE SUBMITTED BEFORE RELEASE OF CPS/SECURITY DEPOSIT)**

***[On the Letter-head of Contractor]***

We, \_\_\_\_\_, a company incorporated under the laws of India/ a Consortium between \* \_\_\_ and \* \_\_\_ (*name of Consortium partners to be inserted*)/ a Partnership Firm consisting of \* \_\_\_ and \* \_\_\_ (*name of Partners to be inserted*)/ a Sole Proprietorship (as the case may be), having its registered office at \_\_\_\_\_ and carrying on business under the name and style M/s. \_\_\_\_\_ were awarded the contract by Bhagyanagar Gas Limited in reference to Tender No. \_\_\_\_\_ dated \_\_\_\_\_ (“Order/Contract”).

After completion of the above-said items/job under the Order/Contract, we have scrutinized all our claims, contentions, disputes, issues and we hereby confirm that after adjusting all payments received by us against our R.A. Bills and final bill, we have no claims, dues, issues and contentions from Bhagyanagar Gas Limited

We further absolve Bhagyanagar Gas Limited from all liabilities present or future arising directly or indirectly out of the Contract.

There is no economic duress or any other compulsion on us for submission of this no claim certificate.

Place: \_\_\_\_\_ [Signature of Authorized Signatory of Service Provider]  
Date: \_\_\_\_\_ Name:  
Designation:  
Seal:

(Sign & Seal of Bidder)



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**CHECK LIST**

Bidders are requested to duly fill in the checklist. This checklist gives only certain important items to facilitate the bidder to make sure that the necessary data/information as called for in the bid document has been submitted by them along with their offer. This, however, does not relieve the bidder of his responsibilities to make sure that his offer is otherwise complete in all respects

**Please ensure compliance and tick (√) against following points:**

<b>S. No.</b>	<b>DESCRIPTION</b>	<b>CHECK BOX</b>	<b>REFERENCE PAGE NO. OF THE BID SUBMITTED</b>
1	Digitally Signing (in case of e-bidding)/ Signing and Stamping (in case of manual bidding) on each sheet of offer, original bidding document including SCC, ITB, GCC ,SOR drawings, addendum (if any)		
2	Confirm that the following details have been submitted in the Un-priced part of the bid		❖
i	Covering Letter, Letter of Submission		
ii	Bid Security Form – F-3		
iii	Signed and stamped original copy of bidding document along with drawings and addendum (if any)		
iv	Power of Attorney in the name of person signing the bid.		
v	Copies of documents defining constitution or legal status, place of registration and principal place of business of the company		
vi	Bidders declaration that regarding, Holiday/ Banning, liquidation court receivership or similar proceedings (Form-F-7)		
vii	Details and documentary proof required against qualification criteria along with complete documents as mentioned in Bidder Evaluation Criteria (BEC)		
viii	Confirm submission of document along with techno-commercial bid as per bid requirement		❖
viii	Confirm submission of Agreed Terms & conditions (ATC-Section-4) document along with techno-commercial bid as per bid requirement		
ix	Confirm submission of filled Exemption -Deviation statement (Form-6) document along with techno-commercial bid as per bid requirement		
3	Confirm that all forms duly filled in are enclosed with the bid duly signed by authorised person(s) including Form- F-1 & F-2.		

(Sign & Seal of Bidder)



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4	Confirm that the price part as per Price Schedule format submitted with Bidding Document/ uploaded in case of e-bid.		❖
5	Confirm that annual reports for last three financial years & duly filled in Form 10& (Form-11-if required) are enclosed in the offer for financial assessment (where financial criteria of BQC is applicable).		

S N	DESCRIPTION	CHECK LIST	YES/ NA	NO
1	TENDER FEE	Nil		
	DD	DD No. _____ dated _____ for Rs. in favour of BHAGYANAGAR GAS LIMITED payable at Hyderabad	NA	NO
2	EMD	INR ...		
A	DD	DD No. _____ dated _____ drawn on _____ (bank) For Rs. in favour of BHAGYANAGAR GAS LIMITED payable at Hyderabad	NA	NO
B	BG	BG VALIDITY BEYOND .....MONTH FROM BID VALIDITY PERIOD OF .....DAYS.	NA	NO
C	UDHYAM CERTIFICATE	<b>Duly signed &amp; stamped by bidder</b> as MENTIONED IN CLAUSE NO.39 OF ITB	Yes/ NA	NO
2	BID VALIDITY UPTO THREE MONTHS FORM BID DUE DATE	ACCEPTED	Yes	NO
3	Copy of <b>WORK ORDER (WO)/LOA</b> and completion/ execution certificate <b>as stipulated in BQC</b>	The Work Order/ LOA & completion/ execution certificate mentioning required details as per the BEC.	Yes	NO
<b>4</b>	<b>FINANCIAL CRITERIA IN CASE OF SINGLE BIDDER AS STIPULATED IN BQC</b>			
i	Financial Documents – Turn Over	Submitted audited Balance Sheet and Profit & Loss Statement of any of the three (3) preceding	Yes	NO

(Sign & Seal of Bidder)

		Financial Year(s), along with un-price bid.		
ii	Balance Sheet/s & Profit & Loss Statements as stipulated in BQC	Audited & Attestations as required	Yes	NO
iii	Details of financial capability of bidder prescribed Format, F-10 as stipulated in BQC	Duly signed and stamped by a <b>Chartered Accountant</b> with Membership Number	Yes	NO
iv	Confirmation to terms in Scope of Work/ Services (SCC, Cl. No.13)	Confirmed/ Accepted declaration duly signed & sealed	Yes	NO
5	Tender Document Submitted	Submitted Unedited & Duly signed along with bid document	Yes	NO
6	SOR (BLANK without price) mentioning word "QUOTED/ NOT QUOTED" in each item rate column	Submitted Unedited & Duly signed along with bid document	Yes	NO
7	FORMS & FORMATS ATTACHED TO TENDER	duly filled information as applicable, signed, stamped & submitted all	Yes	NO
8	<b>Non-submission of the attested copies as specified above/ in tender document of the requisite certificates/ documents shall render the bid non-responsive and shall be liable for rejection.</b>		<b>[AGREED &amp; CONFIRMED]</b>	

(Sign & Seal of Bidder)

**SECTION-6**

**GENERAL CONDITIONS OF CONTRACT**

**FOR**

**PROCUREMENT OF GOODS**

(Sign & Seal of Bidder)

**GENERAL CONDITIONS OF CONTRACT-GOODS [Rev.0]**

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(Sign & Seal of Bidder)



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## **1.0 DEFINITIONS, INTERPRETATIONS & PRIORITY OF CONTRACT DOCUMENTS**

### **1.1 Definitions**

In this document, General Conditions of Contract (GCC-Goods), the following terms shall have the following respective meanings:

- 1.1.1 "Approved" means prior approval in writing.
- 1.1.2 The "Bid" or "Tender" "Offer" means the proposal along with supporting documents submitted before Notification of Award by the Bidder for consideration / acceptance by the Purchaser.
- 1.1.3 "Bidder" Designates the person(s) or legal entity / Firm / Company /Corporation /Organisation, and it's legal representatives, successors and permitted assigns which has made a proposal or submitted Bid/Tender/Offer with the aim of concluding a Contract with the Purchaser.
- 1.1.4 "Consultant" or "PMC" [if engaged] shall mean M/s. ....having its registered office at who is the consultant to the Purchaser for this Contract. The term Consultant includes successors, assigns of M/s. ....
- 1.1.5 "Contract" shall mean all obligations, commitments, promises agreed upon between Purchaser and Supplier for supply of Goods including execution of the Services (if any) as per Purchase Order (PO) and its subsequent amendment(s), if any in writing thereto.
- 1.1.6 "Contract Price" or "Purchase Order Value" shall mean the total sum accepted or the total sum calculated in accordance with the prices accepted in the Contract as payable to the Supplier under the Contract for the full and proper performance of its contractual obligations. The Contract Price /Purchase Order Value is subject to Price Reduction Schedule clause.
- 1.1.7 "Completion Date" shall mean the date on which the supplied Goods are successfully commissioned by the Supplier and handed over to the Purchaser.
- "Delivery Date" shall be the date on which Goods are supplied by Supplier as per delivery terms of the Contract.
- 1.1.8 "Commercial Operation" shall mean the condition of the operation in which the complete Goods / equipment covered under the Contract is officially declared by the Purchaser to be available for continuous operation at different loads upto and including rated capacity.

- 1.1.9 “Day” shall mean a day of 24 hours from midnight to midnight irrespective of the number of hours worked in that day.
- 1.1.10 “Delivery” shall mean the transfer of the Goods from the Supplier to the Purchaser in accordance with the terms and conditions set forth in the Contract.
- Delivery terms shall be interpreted as per current edition of INCOTERMS, published by the International Chamber of Commerce before the due date of submission of Bid
- 1.1.11 “Drawings” shall mean and include Engineering drawings, sketches showing plans, sections and elevations in relation to the Contract together with modifications and/or revisions thereto.
- 1.1.12 “Engineer” or “Engineer-in-Charge” shall mean the person designated from time to time by Purchaser/Consultant and shall include those who are expressly authorized to act for and on behalf of Purchaser/Consultant for operation of this Contract.
- 1.1.13 "Fax of Acceptance" shall mean intimation regarding notification of award by the Purchaser/Consultant to the successful Bidder/Supplier through a fax/ letter/ email conveying that the Tender/Bid/Offer has been accepted in accordance with the provisions contained therein.
- 1.1.14 “Final Acceptance” shall mean the Purchaser’s written acceptance of the Goods supplied and works/Services performed under the Contract after successful completion of performance and guarantee test, at/after the Completion Date.
- 1.1.15 “Goods” shall mean articles, materials, equipment, machinery, instruments, stores, design and drawings, data and other property to be supplied by Supplier including Services (if any), to complete the Contract and Amendment(s) thereto.
- 1.1.16 “Inspector” shall mean any person or third party Agency nominated by Purchaser/Consultant to inspect Goods, stage wise as well as final, before dispatch, at Supplier’s works and/or on receipt at Site as per terms of the Contract.
- 1.1.17 “Initial Operation” shall mean the first integral operation of the complete Goods covered under the Contract with sub-systems and supporting equipment(s) in service or available for service.
- 1.1.18 “Purchase Order" means the Contract Document/Order collectively the Tender Documents, Designs, Drawings, Specification, Bill of Quantities, Schedule of Rates alongwith its break-up (if any), Fax of Acceptance (if any), agreed variations and amendments (if any) and such other documents constituting the Tender and acceptance thereof.

(Sign & Seal of Bidder)



**Tender for Procurement of Turbine Flow Meter (Custody Meter)  
and EVC at Mother Station to get 4-20 mA flow signal to automize  
Odorization Unit at Vijayawada GA  
Bid Document No: BGL/713/2025-26**

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- 1.1.19 “Purchaser” shall mean BHAGYANAGAR GAS LIMITED (BGL) having its registered office at 2<sup>nd</sup> Floor, Parishram Bhavan, TSIDC Building, Basheer Bagh, Hyderabad – 500004. at Purchaser includes successors, assigns of BGL
- 1.1.20 “Performance and Guarantee Tests” shall mean all operational checks and tests required to determine and demonstrate capacity, efficiency and operating characteristics as specified in the Purchase Order.
- 1.1.21 “Project” designates the aggregate of the Goods and/or Services to be provided by one or more Suppliers/Contractors.
- 1.1.22 “Quantities / Bills of Quantities” designate the quantity calculations to be taken into account when these calculations are made from detailed or construction drawings or from work actually performed, and presented according to a jointly agreed breakdown of the Goods and/or Services.
- 1.1.23 “Supplier” shall mean the successful Bidder whose Bid has been accepted by the Purchaser for supply of Goods and incidental Services (if any). The term Supplier is a synonyms of Seller and Vendor/Contractor and also includes its successor(s) and permitted assign(s).
- 1.1.24 “Service” shall mean those services ancillary to the supply of Goods, such as transportation and insurance and any other incidental services such as erection, installation, testing, commissioning, provision of technical assistance, training and other such obligations of the Supplier covered under the Contract.
- 1.1.25 “Site” means the land(s) and other place(s) on, under, in or across/through which the Goods and/or Services have to be supplied, erected, assembled, adjusted, tested, arranged and/or commissioned.
- 1.1.26 “Specifications” shall mean and include schedules, details, description, statement of technical data, performance characteristics, standards (Indian and/or International) and standard specifications including all addenda/corrigenda published before entering into the Contract, as applicable and specified in the Contract.
- 1.1.27 “Sub-Contract” shall mean order placed by the Supplier, for any portion of the Contract, after necessary consent and prior written approval of Purchaser unless otherwise explicitly mentioned in the Contract.
- 1.1.28 “Sub-Contractor” shall mean the person(s) / firm / Organisation / company (other than the Supplier)and it’s legal representatives, successors and permitted assigns named in the Contract for supply of any part of the Goods or Service(s) or to whom any part of the Contract has been sub-let by the Supplier with the prior consent in writing of the Consultant/Purchaser unless otherwise explicitly mentioned in the Contract.

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- 1.1.29 “Start-Up” shall mean the time period required to bring the Goods covered under the Contract from an inactive condition, when construction is essentially complete to the state of readiness for trial operation. The start-up period shall include preliminary inspection and check out of Goods and supporting subsystems, initial operation of the complete Goods covered under the Contract to obtain necessary pre-trial operation data, perform calibration and corrective action, shutdown inspection and adjustment prior to the trial operation period.
- 1.1.30 “Tests” shall mean such process or processes to be carried out by the Supplier as are prescribed in the Contract or considered necessary by Purchaser or his representative in order to ascertain quality, workmanship, performance and efficiency of Goods or part thereof.
- 1.1.31 “Tests on Completion” shall mean such tests as prescribed in the Contract to be performed by the Supplier before the complete Goods and Services are taken over by the Purchaser.
- 1.1.32 "Week" shall mean a period of any consecutive seven Days.

## **1.2 Interpretations & Priority of Contract Documents**

1.2.1 The documents forming the Contract are to be read together and interpreted as mutually explanatory of one another. If there is a direct inconsistency in specific obligation(s), then for the purposes of interpretation, and unless otherwise provided in the Contract, the priority of the Contract Documents shall be in accordance with following sequence:

- (i) Purchase Order
- (ii) Fax of Acceptance
- (iii) Specific Technical Specification/Job Specifications (pertaining to Scope of Supply)
- (iv) Drawings
- (v) Special Purchase Conditions (SPC) / Special Conditions of Contract (SCC)
- (vi) General Technical Specifications (if applicable)
- (vii) Instructions to Bidders (ITB)
- (viii) General Conditions of Contract (GCC)
- (ix) Any other document forming part of the Contract

An Amendment issued to Purchase Order after signing of formal Contract shall take precedence over respective clauses of the formal Contract and its annexures.

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The higher priority interpretation shall be adopted only to the extent required to deal with an inconsistency. Specific term(s) agreed take priority over general statement(s) and terms in Contract Document created at a later date govern over terms in earlier Contract Document. Subject to foregoing, the terms of the groups of documents set out above have equal importance within their group.

- 1.2.2 Headings and Marginal Notes: All headings and marginal notes to the clauses of these General Conditions of Contract or to the Specifications or to any other Tender Document are solely for the purpose of giving a concise indication and not a summary of the contents thereof, and they shall never be deemed to be part thereof or be used in the interpretation thereof the Contract.
- 1.2.3 Singular and Plural: In Contract Documents unless otherwise stated specifically, the singular shall include the plural and vice versa wherever the context so requires.
- 1.2.4 Interpretation: Words implying 'Person(s)/Party(ies)' shall include relevant Corporate Companies / Registered Associations/ Body of Individuals/ Firm of Partnership' and any firm/organization having legal capacity, as the case may be.
- 1.2.5 Gender: Where the context so requires, words imparting the masculine gender shall also include the feminine gender and the neuter gender and vice versa.
- 1.2.6 Severability: Should any provision of this Contract be found to be invalid, illegal or otherwise not enforceable by any court of law, such finding shall not affect the remaining provisions hereto and they shall remain binding on the parties hereto.

**1.2.7 Incoterms:**

- (i) The meaning of any trade term and the rights and obligations of Parties thereunder shall be as prescribed by Incoterms 2020 or its latest version.
- (ii) EXW, FOB, FCA, CIF, CIP & CPT and other similar terms, shall be governed by the rules prescribed in the Incoterms 2020 or its latest version, published by the International Chamber of Commerce, applicable as on due date of submission of Bid.

**2.0 SUPPLIER TO INFORM**

- 2.1 The Supplier shall be deemed to have carefully examined all Contract documents to his entire satisfaction. Any lack of information shall not in any way relieve the Supplier of his responsibility to fulfill his obligation under the Contract.

**3.0 APPLICATION**

- 3.1 These General Conditions of Contract (GCC-Goods) shall apply to the extent that they are not superseded by provisions of other parts of the Contract.

**4.0 COUNTRY OF ORIGIN**

- 4.1 All goods and services supplied under the contract shall have their Origin as quoted by the Bidder and accepted by Purchaser.

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- 4.2 For purposes of this Clause “Origin” means the place where the Goods were mined, grown or produced, or from which the Services are supplied. Goods are produced when, through manufacturing, processing or substantial and major assembling of components, a commercially recognized new product results that is substantially different in basic characteristics or in purpose or utility from its components.
- 4.3 In case of Contract with foreign Suppliers, a certificate issued by relevant Chamber of Commerce specifying Country of Origin shall form part of shipping/dispatch documents.
- 4.4 The Origin of goods and services is distinct from the nationality of the Supplier.
- 4.5 In case of any export/re-export control restrictions imposed by parent country of Bidder / country of origin on the Goods offered/supplied regarding Goods’ end use or end user, then Bidder shall intimate the same upfront in their offer. In such case, right to accept or reject the Bid of such Bidder shall be decided by Purchaser on it’s sole discretion.

#### **5.0 SCOPE OF CONTRACT**

- 5.1 Scope of the Contract shall be as defined in the Purchase Order/Contract Document(s) and Annexure thereto.
- 5.2 Completeness of the Goods and Services shall be the responsibility of the Supplier. Any equipment, fittings and accessories which may not be specifically mentioned in the Scope, Specifications or drawings, but which are usual or necessary for the satisfactory functioning of the Goods ( i.e. successful operation and functioning of the Equipment being Supplier’s responsibility) shall be provided by Supplier without any extra cost.
- 5.3 The Supplier shall follow the good engineering practices in the manufacture of Goods/Equipment(s) notwithstanding any omission in the Specifications. The true intent and meaning of these documents is that Supplier shall in all respects, design, engineer, manufacture and supply the Goods, equipment in a thorough workmanlike manner and supply the same in prescribed time to the entire satisfaction of Purchaser.
- 5.4 The Supplier shall furnish three (3) copies in English language of Technical documents, final drawings, preservation instructions, operation and maintenance manuals, test certificates, spare parts catalogues for all equipment to the Purchaser. The Supplier shall also furnish the above in computer readable soft copies in PDF format or equivalent by electronic mode.
- 5.5 The documents once submitted by the Supplier shall be firm and final and not subject to subsequent changes unless otherwise explicitly agreed by the Purchaser in writing. The Supplier shall be responsible for any loss to the Purchaser/Consultant consequent to furnishing of incorrect data/drawings.

- 5.6 All dimensions and weight should be in metric system.
- 5.7 All equipment to be supplied and work to be carried out under the Contract shall conform to and comply with the provisions of relevant regulations/Acts (State Government or Central Government) as may be applicable to the type of equipment/work carried out and necessary certificates shall be furnished.
- 5.8 The Supplier shall provide cross sectional drawings, wherever applicable, to identify the spare part numbers and their location
- 5.9 Specifications, design and drawings issued to the Supplier along with Tender Document/RFQ and Contract are not sold or given but loaned. These remain property of Purchaser/Consultant or its assigns and are subject to recall by Purchaser/Consultant. The Supplier and his employees shall not make use of the drawings, specifications and technical information for any purpose at any time except for manufacture against the Contract and shall not disclose the same to any person, firm or corporate body, without prior written permission of Purchaser/Consultant. All such details shall be kept confidential.
- 5.10 Supplier shall pack, protect, mark and arrange for dispatch of Equipment as per instructions given in the Contract.
- 5.11 The Supplier on his own behalf and on behalf of Sub-Contractor(s) hereby represents that both have full legal right, power and authority to transfer the ownership of the equipment/material to Purchaser.

## **6.0 STANDARDS**

- 6.1 The Goods supplied under the Contract shall conform to the standards mentioned in the Technical Specifications, or such other standards which ensure equal or higher quality, and when no applicable standard is mentioned, to the authoritative standard appropriate to the Goods' country of origin and such standards shall be the latest issued by the concerned institution(s).

## **7.0 INSTRUCTIONS, DIRECTION & CORRESPONDENCE**

- 7.1 The Goods described in the Contract are to be supplied according to the standards, data sheets, tables, specifications and drawings attached thereto and/or enclosed with the Contract, itself and according to all conditions, both general and specific enclosed with the contract, unless any or all of them have been modified or cancelled in writing as a whole or in part.
- 7.2 All instructions and orders to Supplier shall, excepting what is herein provided, be given by Purchaser/Consultant.
- 7.3 All provision of Goods and supply of Services shall be carried out under the direction of and to the satisfaction of Purchaser/Consultant.

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7.0 All communications, including technical/commercial clarifications and/or comments shall be addressed to Purchaser/ Consultant and shall always bear reference to the Purchase Order number.

7.1 Invoices for payment against Contract shall be addressed to Purchaser.

7.2 The Purchase Order number shall be shown on all invoices, communications, packing lists, containers and bills of lading, etc.

## **8.0 CONTRACT OBLIGATIONS**

8.1 Purchaser will be the sole judge in the matter of award of Contract, and the decision of Purchaser shall be final and binding on the Supplier.

The Acceptance of Tender/Bid will be intimated to the successful Bidder by the Purchaser through notification of award of Contract either by fax / e - mail / letter or like means defined as Fax of Acceptance (FOA). The Contract shall enter into force on the date of Notification of Award and the same shall be binding on Purchaser and Supplier.

8.2 If after award of the Contract, the Supplier does not acknowledge the receipt of FOA/PO or fails to furnish the Contract Performance Security within the prescribed time limit, the Purchaser reserves the right to cancel the Contract and apply all remedies available to him under the terms and conditions of this Contract.

8.3 Once a Contract enters into force, the terms and conditions contained therein shall take precedence over the Supplier's bid and all previous correspondence.

### **8.4 Supplier's Responsibilities**

8.4.1 The Supplier shall supply all the Goods and incidental Services as per terms and conditions of Purchase Order within the Delivery and Completion schedule mentioned therein.

### **8.5 Purchaser's Responsibilities**

8.5.1 Whenever the supply of Goods and incidental Services requires that the Supplier obtain permits, approvals, and import and other licenses from local public authorities, the Purchaser shall, if so required by the Supplier, make its best effort to assist the Supplier in complying with such requirements in a timely and expeditious manner.

### **8.6 Joint and Several Responsibility:**

8.6.1 Where Supplier's Goods/Equipment(s) or any part thereof are to be used jointly with other equipment(s) supplied by another manufacturer(s), the name of the such manufacturer(s) will be communicated separately to Supplier, the Purchaser/Consultant will hold Supplier and the manufacturer(s) jointly and severally responsible for the perfect operation of the entire group or section of equipment as regard the technical and

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mechanical characteristics stipulated in the specification. Such responsibility shall also include the mechanical coupling as well as dynamic and starting moment.

- 8.6.2 Consequently, Supplier shall establish and maintain all necessary contact with the manufacturer to be indicated by Purchaser/Consultant with a view to ensuring the exchange of all relevant data and information.

## **9.0 MODIFICATION IN CONTRACT**

- 9.1 All modifications leading to changes in the Contract with respect to technical and/or commercial aspects including terms of delivery, shall be considered valid only when accepted in writing by Purchaser/Consultant by issuing amendment to the Contract. Issuance of acceptance or otherwise in such cases shall not be any ground for extension of agreed delivery date and also shall not affect the performance of contract in any manner except to the extent mutually agreed through a modification of Contract.

- 9.2 Based on the requirement, the Purchaser/Consultant in writing shall have the right to change the quantities, specifications, drawings etc. without changing the indented purpose of the Contract. If such changes cause an increase or decrease in the price or time required for the supply, the Supplier shall submit the proposal indicating the implications along with documentary evidence/ back-up documents/ calculations within 7 days, for review and processing of change order/amendment to the Contract by Purchaser/Consultant. On receipt of the amendment to the Contract, Supplier shall execute the change order.

- 9.3 Purchaser/Consultant shall not be bound by any printed conditions or provisions in the Supplier's Bid Forms or acknowledgment of Contract, invoices, packing list and other documents which purport to impose any conditions at variance with or supplemental to Contract.

## **10.0 USE OF CONTRACT DOCUMENTS & INFORMATION**

- 10.1 The Supplier shall not, without the Purchaser's/Consultant's prior written consent, disclose the Contract or any provision thereof, or any specification, plan, drawing, pattern, sample or information furnished by or on behalf of the Purchaser in connection therewith, to any person other than a person employed by the Supplier in the performance of the Contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purpose of such performance.

- 10.2 The Supplier shall not, without the Purchaser's prior written consent, make use of any document or information enumerated in clause no. 10.1. except for purpose of performing the Contract.

## **11.0 PATENT RIGHTS, LIABILITY & COMPLIANCE OF REGULATIONS**

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- 11.1 Supplier hereby warrants that the use or sale of the materials delivered hereunder will not infringe claims of any patent covering such material and Supplier agrees to be responsible for and to defend at his sole expense all suits and proceedings against Purchaser based on any such alleged patent infringement and to pay all costs, expenses and damages which Purchaser and/or Consultant may have to pay or incur by reason of any such suit or proceedings.
- 11.2 The Supplier shall, indemnify and hold harmless the Purchaser/Consultant and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the Purchaser/Consultant may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, industrial design rights or other intellectual property right registered or otherwise by reason of
- (a) the installation or the use of the Goods or any part thereof in the country where the Site is located; and
  - (b) the sale of the products (which is produced by use of the Goods) in any country.
- 11.3 Supplier shall also protect and fully indemnify the Purchaser from any claims from Supplier's workmen/employees or their heirs, dependents, representatives, etc. or from any other person(s) or company(ies) etc. for any acts of commissions or omission while executing the Contract.
- 11.4 Supplier shall be responsible for compliance with all requirements under the laws and shall protect and indemnify completely the Purchaser from any claims/penalties arising out of any infringements.
- 12.0 CONTRACT PERFORMANCE SECURITY (CPS):**
- 12.1 Within 30 days after the Supplier's receipt of FOA, the Supplier shall furnish Contract Performance Security (CPS) in the form of Demand Draft/online direct transfer/Bank Guarantee in the format attached as Appendix-III, for an amount equivalent to defined percentage (mentioned in tender/ FOA) of the total Purchase Order Value excluding GST on finished goods or for the amount mentioned in the Tender Document/FOA.
- 12.2 The proceeds of CPS shall be appropriated by the Purchaser as compensation for any loss resulting from the Supplier's failure to complete his obligations under the Contract without prejudice to any of the rights or remedies the Purchaser may be entitled to as per

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terms and conditions of Contract. The proceeds of this CPS shall also govern the successful performance of Goods and Services during the entire period of Contractual Warrantee/Guarantee.

In case of forfeiture of Contract Performance Security/ Security Deposit, the forfeited amount will be considered inclusive of tax and tax invoice will be issued by BGL. The forfeiture amount will be subject to final decision of BGL based on other terms and conditions of order/ contract.

- 12.3 The CPS shall be denominated in the currency of the Contract.
- 12.4 The CPS shall be valid for the duration upto expiry of Warrantee/Guarantee period with claim period as per the format attached as Appendix-III. The Bank Guarantee will be discharged by Purchaser within 3 months from the date of expiration of the Supplier's entire obligations, including any warrantee/guarantee obligations, under the Contract.
- 12.5 All compensation, claim or other sums of money payable by the Supplier to the Purchaser/Consultant under terms of this Contract may be deducted from or paid by the encashment or sale of a sufficient part of his Contract Performance Security or from any sums which may be due or may become due to the Supplier by the Purchaser/Consultant of any account whatsoever and in the event of his CPS being reduced by reasons of any such deductions or sale of aforesaid, the Supplier shall within ten days thereafter make good in bank drafts/Bank Guarantee as aforesaid any sum or sums which may have been deducted from or realized by sale of his CPS, or any part thereof. The Supplier shall pay to the Purchaser/Consultant on demand any balance remaining due. No interest shall be payable by the Purchaser/Consultant for sum deposited as CPS and no claim whatsoever in this regard shall be entertained by Purchaser.

### **13.0 INSPECTION, TESTING & EXPEDITING**

- 13.1 The Purchaser or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Contract specifications. The special conditions of Contract and/or the Technical Specifications shall specify what inspections and tests the Purchaser requires and where they are to be conducted. The Purchaser shall notify the Supplier in writing the identity of any representative(s) retained for these purposes.
- 13.2 The inspections and tests may be conducted on the premises of the Supplier or his sub-contractor(s), at point of Delivery and/or at the Goods' final destination. When conducted on the premises of the Supplier or his sub-contractor (s), all reasonable facilities and

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**Tender for Procurement of Turbine Flow Meter (Custody Meter)  
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- assistance including access to the drawings and production data shall be furnished to the inspectors at no charge to the Purchaser.
- 13.3 Should any inspected or tested Goods fail to conform to the Specifications, the Purchaser may reject them and the Supplier shall either replace the rejected Goods or make all alterations necessary to meet Specifications' requirements, free of cost to the Purchaser.
- 13.4 The Purchaser's right to inspect, test and where necessary reject the Goods after the Goods' arrival in the Purchaser's country shall in no way be limited or waived by reason of the Goods having previously been inspected, tested and passed by the Purchaser, or their representative prior to the Goods shipment from the country of Origin.
- 13.5 The Inspector may follow the progress of the manufacture of the Goods under the Contract to ensure that the requirements outlined in the Contract are not being deviated with respect to schedule and quality. Supplier shall allow the Inspector to visit, during working hours, the workshops relevant for execution of the Contract during the entire period of Contract validity.
- 13.6 Any materials/goods covered under scope of Contract, which during the process of inspection by Inspector, at any stage of manufacture/fabrication and subsequent stages, prior to dispatch is found not conforming to the requirements/specifications of the Purchase Order, shall be liable for immediate rejection. Supplier shall be responsible and liable for immediate replacement of such material with acceptable material at no extra cost or impact on the delivery schedule to Purchaser.
- 13.7 In order to enable Purchaser's representatives to obtain entry visas in time, Supplier shall notify Purchaser two months before assembly, testing and packing of main Equipment. If requested, Supplier shall assist Purchaser's representatives in getting visas in the shortest possible time (applicable only in case of foreign order).
- 13.8 Supplier shall place at the disposal of the Inspector, free of charge, all tools, instruments, and other apparatus necessary for the inspection and/or testing of the Goods. The Inspector is entitled to prohibit the use and dispatch of Goods and/or materials which have failed to comply with the characteristics required for the Goods during tests and inspections.
- 13.9 Supplier shall advise in writing of any delay in the inspection program at the earliest, describing in detail the reasons for delay and the proposed corrective action.
- 13.10 All Tests and trials in general, including those to be carried out for materials not manufactured by Supplier shall be witnessed by the Inspector. Therefore, Supplier shall confirm to Purchaser by fax or e-mail about the exact date of inspection with at least 30 days notice. Supplier shall specify the Goods and quantities ready for testing and indicate whether a preliminary or final test is to be carried out.

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- 13.11 If on receipt of this notice, Purchaser should waive the right to witness the test, timely information will be given accordingly.
- 13.12 Any and all expenses incurred in connection with tests, preparation of reports and analysis made by qualified laboratories, necessary technical documents, testing documents and drawings shall be at Supplier's cost. The technical documents shall include the reference and numbers of the standards used in the construction and, wherever deemed practical by the Inspector, copy of such standards.
- 13.13 Nothing in Clause-13 shall in any way release the Supplier from any warrantee/guarantee or other obligations under this Contract.
- 13.14 Arrangements for all inspections required by Indian Statutory Authorities and as specified in technical specifications shall be made by Supplier.

#### **13.15 INSPECTION & REJECTION OF MATERIALS BY CONSIGNEES**

When materials are rejected by the consignee, the Supplier shall be intimated with the details of such rejected materials, as well as the reasons for their rejection, also giving location where such materials are lying at the risk & cost of the Supplier. The Supplier will be called upon either to remove the materials or to give instructions as to their disposal within 14 days and in the case of dangerous, infected and perishable materials within 48 hours from the date of such written Notice, failing which the consignee/Purchaser will either return the materials to the Supplier on freight to pay or otherwise dispose them off at the Supplier's risk and cost. The Purchaser shall also be entitled to recover handling & storage charges, as per Clause No. 27.4

#### **14. TIME SCHEDULE & PROGRESS REPORTING**

- 14.1 Time Schedule Network/Bar Chart
- 14.1.1 Together with the Contract confirmation, Supplier shall submit to Purchaser, his time schedule regarding the documentation, manufacture, testing, supply, erection and commissioning of the Goods.
- 14.1.2 The time schedule will be in the form of a network or a bar chart clearly indicating all main or key events regarding documentation, supply of raw materials, manufacturing, testing, delivery, erection and commissioning.
- 14.1.3 The original issue and subsequent revisions of Supplier's time schedule shall be sent to Purchaser.
- 14.1.4 The time schedule network/bar chart shall be updated at least every second month or as agreed with Purchaser.

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## **14.2 Progress Trend Chart/Monthly Report**

- 14.2.1 Supplier shall report monthly to Purchaser, on the progress of the execution of Contract and achievement of targets set out in time bar chart.
- 14.2.2 The progress will be expressed in percentages as shown in the progress trend chart attached to the Time Schedule specification.
- 14.2.3 The first issue of the Progress Trend Chart will be forwarded together with the time bar chart alongwith Contract confirmation.
- 14.2.4 Purchaser's/Consultant's representatives shall have the right to inspect Supplier's premises with a view to evaluating the actual progress of Contract execution on the basis of Supplier's time schedule documentation.
- 14.2.5 Irrespective of such inspection, Supplier shall advise Consultant, with copy to Purchaser, at the earliest possible date of any anticipated delay in the progress.
- 14.3 Notwithstanding the above, in case progress on the execution of contract at various stages is not as per time schedule and is not satisfactory in the opinion of the Purchaser/Consultant which shall be conclusive or Supplier shall neglect to execute the Contract with due diligence and expeditiousness or contravenes the provisions of the Contract, Purchaser/Consultant may give notice of the same in writing to the Supplier calling upon him to make good the failure, neglect or contravention complained of. Should Supplier fail to comply with such notice within the period considered reasonable by Purchaser/Consultant, the Purchaser/Consultant shall have the option and be at liberty to cancel the Contract wholly or in part out and make alternative arrangements to obtain the requirements and completion of Contract at the Supplier's risk and cost and recover from the Supplier, all extra cost incurred by the Purchaser on this account. In such event Purchaser/Consultant shall not be responsible for any loss that the Supplier may incur and Supplier shall not be entitled to any gain. Purchaser/Consultant shall, in addition, have the right to encash Contract Performance Security in full or part.

## **15. DELIVERY & DOCUMENTS AND DISPATCH SCHEDULE**

- 15.1 Delivery of the Goods shall be made by the Supplier in accordance with terms specified in the Contract, and the goods shall remain at the risk of the Supplier until delivery has been completed.
- 15.2 Delivery shall be deemed to have been made:
- (i) In the case of FOB/FCA, CFR/CPT& CIF/CIP Contracts, when the Goods have been put on board the ship/flight, at the specified port of loading and a clean Bill of Lading/Airway

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- Bill is obtained. The date of Bill of Lading/Airway Bill shall be considered as the delivery date.
- (ii) In case of FOT despatch point Contract (For Indian bidder), on evidence that the goods have been loaded on the carrier and a negotiable copy of the Goods receipt obtained. The date of LR/GR shall be considered as the date of delivery.
- (iii) In case of FOT site (for Indian bidders) Contract, date of receipt of Goods by Purchaser/Consultant at the designated site(s) shall be considered as the date of delivery.
- (iv) For Contracts involving Services, the delivery/completion period for such Services mentioned in Contract shall commence from zero date as intimated by the Purchaser/Consultant in writing or as mentioned in SCC or elsewhere.
- 15.3 The delivery terms are binding and essential and consequently, no delay is allowed without the written approval of Purchaser/Consultant. Any request concerning delay will be void unless accepted by Purchaser/Consultant through a modification to the Contract.
- 15.4 Delivery time shall include time for submission of drawings for approval, incorporation of comments, if any, and final approval of drawings by Purchaser/Consultant.
- 15.5 In the event of delay in delivery, Price Reduction Schedule as stipulated in Clause- 26 shall apply. The Contract shall be continued to be in force till the delivery of Goods or written Notice from Purchaser to Supplier for termination of Contract.
- 15.6 It should be noted that if a Contract is placed on a higher bidder as a result of this tender, in preference to the lowest acceptable offer, in consideration of an earlier delivery, the Supplier will be liable to pay to BGL the difference between the contract rate and the rate quoted by the lowest acceptable bidder in case of failure to complete the supply in terms of such Contract within the date of delivery specified in the Tender Document and incorporated in the Contract. This is without prejudice to other rights and remedies available to BGL, under terms of Contract.
- 15.7 The documentation, in English Language, shall be delivered in due time, in proper form and in the required number of copies as specified in the contract.
- 15.8 The additional copies of final drawings and instructions will be included in the package of goods, properly enveloped and protected.
- 15.9 The Supplier should comply with the Packing, Marking and Shipping Documentation Specifications.

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## **15.10 Dispatch Schedule**

### **15.10.1 Indian Bidder:**

If Purchase Order issued based on FOT (Free on Truck) / FOR (Free on Rail) project site basis, materials shall be delivered at the destination on freight prepaid & door delivery basis and for the cases where order(s) are finalized on Ex-works basis the transportation will be arranged by supplier(s) / BGL on 'freight to pay' basis and the freight will be paid at the destination.

Supplier shall submit the following details of goods/cargo within 15 days from Notification of Award to the designated authority as per Purchase Order:

- (i) Shipments Schedule
- (ii) Dimension details of packages
- (iii) Detailed technical write-up along with Catalogue (if applicable)
- (iv) Any other document/details, if mentioned in Purchase Order

The consignment should be handed over to transporter with E-way bill, wherever required as per law/act. In case such e-way bill is required to be issued by BGL, the concerned designated order issuing authority may be contacted in this regard. It will be the responsibility of the supplier to ensure the compliance of the provisions relating to E-Way bill before dispatch of the consignment and any financial implication arising due to non-compliance in this regard will be to the account of the supplier.

It shall be responsibility of the Supplier to send intimation immediately on dispatch of the material so that necessary arrangements can be made at site. Delays on account of the same shall solely be attributable to the Supplier.

### **15.10.2 Foreign Bidder:**

Where the Supplier is required under the Contract to deliver the Goods on CFR or CIF, transportation of the Goods to the port of discharge or such other point in the country of destination as shall be specified in the Contract shall be arranged and paid for by the Supplier and the for the cases where order(s) are finalized on FOB or FCA basis the transportation will be arranged by BGL.

Supplier shall submit the following details of goods/cargo within 15 days from Notification of Award to the designated authority as per Purchase Order:

- (i) Shipments Schedule
- (ii) Dimension details of packages
- (iii) Detailed technical write-up along with Catalogue (if applicable)
- (iv) Any other document/details, if mentioned in Purchase Order

It shall be responsibility of the Supplier to send intimation and Original Shipping Documents immediately on dispatch of the material so that necessary arrangements can



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be made at Destination Port. Delays on account of the same shall solely be attributable to the Supplier.

All equipments / materials are to be insured by BGL for transit/marine risks unless specified otherwise in the purchase order, to cover the damages during the transportation etc.

Any such damage during the transportation shall be immediately notified to under-writers as well as the transporter, for further necessary action for recovery of transit damages.

For the purpose of arranging transit/marine insurance of the goods despatched / shipped, vendors are required to furnish the despatch / shipping particulars to the Insurance Company giving complete details of despatches along with Policy No. etc.

## **16 TRANSIT RISK INSURANCE**

16.1 All Goods supplied under the contract shall be fully insured in a freely convertible currency against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery.

16.2 The Purchaser shall arrange transit risks Insurance for the Goods supplied by indigenous Supplier unless specified otherwise in the Purchase Order, to cover the risk & damages during the inland transportation. Further, where delivery is on FOB/FCA or CFR/CPT basis, marine insurance shall be the responsibility of the Purchaser.

Any such damage during the transportation shall be immediately notified to under-writers as well as the transporter under intimation to consignee, for further necessary action for recovery of transit damages.

16.3 Insurance Requirements:

Indigenous Supplier: Transit risk insurance from F.O.T. despatch point onwards shall be arranged and borne by BGL unless specified otherwise in the Purchase Order.

Immediately after shipment, the Supplier shall inform the Purchaser's insurance agent and Purchaser/Consultant giving the details of shipment regarding LR number and date, invoice no. & date with value, number of packages/cases, gross/net weight, value of goods and Purchase Order number along with Insurance policy no., for arranging insurance of the consignment against transit risk from the despatch point to the Site/warehouse of the consignee.

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Foreign Supplier : Marine insurance as well as transit insurance in Purchaser's country shall be arranged and borne by BGL, in case of EXW, FOB/FCA, CFR/C&F orders as per INCOTERMS.

Immediately after shipment, the Supplier shall inform the Purchaser's insurance agent and Purchaser/Consultant giving the details of shipment regarding name of vessel, B/L or AWB number and date, invoice no. & date with value, packing details including number of packages/cases&gross/net weight, value of goods and Purchase Order number & date, ETD & ETA of vessel at ports along with Insurance policy no., for arranging necessary insurance.

The Supplier shall ensure that in effecting despatch of Goods, the primary responsibility of the carriers for safe movement is always retained so that the Purchaser's interests are fully safeguarded and are in no way jeopardised. The Supplier shall furnish the cost of materials against each equipment.

Purchaser's Insurance Agent & Insurance policy no.:

[The name and address of Insurance Agent and Insurance policy no. shall be mentioned in Tender Document/Purchase Order]

## **17. PACKING & SHIPPING INSTUCTIONS AND TRANSPORTATION**

### **17.1 Packing & Marking:**

The Supplier shall dispatch the materials in worthy/Sea worthy/Air worthy packing conforming to the international norms of packing/ prescribed standards in force to withstand air/ocean/land journey and ensuring the safety of cargo en-route and also arrival of materials at ultimate destination in good condition. Hazardous/dangerous cargo ordered alongwith other material, against a particular supply order, the hazardous/dangerous cargo should be packed in a separate identifiable box to avoid payment of excess freight and delay in clearance. The consignment shall be comprehensively insured against all risks by the Supplier in case of contracts with transit insurance in Supplier's scope from Supplier's ware-house to ultimate consignee's ware-house basis and each case/packing shall have on its outer side the following marking in English in indelible ink:

- (i) Purchase Order No. and date
- (ii) Country of origin(Applicable for Foreign Suppliers)
- (iii) Name of Supplier
- (iv) Case number (running number upon total number of boxes).

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- (v) Gross and net weight in Kilogram on each box.
- (vi) Dimension of packages
- (vii) Port of destination (Applicable for Foreign Suppliers)
- (viii) Consignee
- (ix) TOP/DON'T TURNOVER/HANDLE WITH CARE (as applicable)
- (x) The equipment which cannot be packed shall bear metal tags with above marking indicated thereon. Each box shall contain one copy of packing list and Material Safety Data Sheet (if applicable) in English.

In case of hazardous chemicals / materials the bidder will provide Material Safety Data Sheets along with quotation and also while dispatching the materials. The bidder will also provide special hazard identification symbols / markings on each packing of hazardous chemicals.

The Supplier shall be held liable for all damages or breakages to the goods due to the defective or insufficient packing as well as for corrosion due to insufficient protection. Packaged equipment or material showing damage, defects or shortages resulting from improper packaging material or packing procedures or having concealed damage or shortages, at the time of unpacking shall be to the Supplier's account.

Wherever the items make a full truck load, the suppliers to dispatch such items in a full truck direct to the consignee on a door delivery basis to the site. In such cases, the supplier to send a consignee copy of the lorry receipt to the consignee along with the consignment and the consignment shall be booked to BGL and not "self". The supplier should dispatch the consignments to the designated consignee. All dispatch documents, that is, railway/lorry receipt, goods consignment note, airway bill, invoices, packing list, freight memos, test certificate, and so on, shall be sent to the concerned authority which will arrange to make the payment. If the payment is to be made through the bank, all original documents are to be sent through the designated bank.

Where critical equipment is involved, suitable special instructions will be provided in SCC to the supplier about the mode of transport, loading, avoidance of transshipment and, if necessary, provision of escorts. In case of chemicals, powdery materials, liquid materials, and so on, supplier is to ensure proper packaging to avoid spillage en route, so as to avoid pollution problems and also to conform to the ISO 14001 standard (wherever applicable).

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**17.2 Shipping Instructions:**

The Supplier shall notify the Purchaser/Consultant& all concerned and also the port as well as ultimate consignee by e-mail the Bill of Lading/Airway Bill number and date, the name of ship/flight, ship manifest, the date of departure of the ship/flight, the port of loading and destination, brief description of materials, gross/net weight and total number of packages, quantity, value and Purchase Order number and date within 2 days from the departure of the ship or within 24 hours from the departure of the flight from the port of loading.

17.3 Copies of dispatch documents should reach Purchaser/Consultant well in advance failing which any demurrage/wharfage etc. incurred on account of late/ non-receipt of dispatch document/wrong dispatches of consignment will be recovered from Supplier. In case of documents through Bank, it may be noted that the documents will be retired only if the dispatches are made as per the terms of the Purchase Order.

17.4 Where the Supplier is required under the Contract to deliver the Goods on FOB/FCA basis, transport of the Goods until delivery, that is, upto and including the point of putting the Goods on board the export conveyance at the specified port of loading, shall be arranged and paid for by the Supplier and the cost thereof shall be included in the Purchase Order Value.

17.5 Where the Supplier is required under the Contract to deliver the Goods on CFR/CPT or CIF/CIP basis, transport of the Goods to the port of discharge or such other point in the country of destination as specified in the Contract shall be arranged and paid for by the Supplier and the cost thereof shall be included in the Purchase Order Value.

17.6 Where the Supplier is required under the Contract to deliver the Goods on FOT destination point basis, transport of the Goods upto the destination point shall be specified in the Contract shall be arranged and paid by the Supplier and the cost thereof shall be included in the Purchase Order Value.

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17.7 As per the Section 3 of the “Carriage by Road Act 2007”, no person can engage in the business of a common carrier unless granted a certificate of registration to do so and any transportation of goods through unregistered common carrier is illegal. Accordingly, Goods should be transported through registered common carriers only.

**18. INCIDENTAL SERVICES**

18.1 The Supplier may be required to provide any or all of the following Services:

18.1.1 Performance or supervision of onsite assembly and/or start-up of the supplied Goods:

18.1.2 Furnishing tools required for assembly and/or maintenance of the supplied Goods:

18.1.3 Performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this Service shall not relieve the Supplier of any warranty/guarantee obligations under the Contract.

18.1.4 Training of the Purchaser’s personnel at the Supplier’s premise and/or at Site, in assembly, start-up operation, maintenance and/or repair of the supplied Goods at no extra cost. However, Purchaser will bear boarding, lodging & personal expenses of Trainees.

18.2 Prices charged by the Supplier for the preceding incidental Services, shall not exceed the prevailing rates charged to other parties by the Supplier for similar services.

18.3 When required, Supplier shall depute necessary personnel for supervision and/or erection of the Goods/Equipments at site for duration to be specified by Purchaser on mutually agreed terms. Supplier’s personnel shall be available at Site within seven Days for emergency action and twenty-one Days for medium and long-term assistance, from the date of notice given by Purchaser.

18.4 If the cost of incidental Services is not shown separately in the Price Schedules /t Schedule of Rates, then the same shall be considered included in the quoted prices.

**19. SPARE PARTS, MAINTENANCE TOOLS ETC.**

19.1 Supplier may be required to provide any or all of the following materials and notification pertaining to Spare parts (including standby equipments, accessories, sub-assemblies/assemblies etc.)manufactured or sourced by the Supplier. Such Spares shall be supplied directly by Supplier and the responsibility shall not be passed on to his dealers/distributors/stockists or Indian associates.

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- 19.1.1 Such Spare parts as the Purchaser may opt to purchase from the Supplier, provided that his option shall not relieve the Supplier of any warranty obligations under the Contract, and
- 19.1.2 In the event of termination of production of the spare parts:
- i) Advance notification to the Purchaser of the pending termination, in sufficient time to permit the Purchaser to procure such Spares, and
  - ii) Following such termination, furnishing at no cost to the Purchaser, the blue prints, drawings and specifications of the spare parts, if any when requested.
- 19.2 Supplier shall supply item wise list with value of each item of Spare parts and maintenance tools requirements, along with full details of all manufacturers/ sub-supplier(s) for spares/maintenance tools sourced by Supplier.
- 19.3 Spare parts shall be new and of first class quality as per engineering standards/ codes, free of any defects (even concealed), deficiency in design, materials & workmanship and also shall be completely interchangeable with the corresponding parts.
- 19.4 Type and sizes of FILTER ELEMENTS shall be clearly indicated.
- 19.5 Spare parts shall be packed for long storage under tropical climatic conditions in suitable cases, clearly marked as to intended purpose.
- 19.6 A list of special tools and gauges required for normal maintenance and special handling and lifting appliances, if any, for the Goods, shall be submitted to Purchaser.
- 19.7 Bidders should note that if they do not comply with above conditions, their Bid may be rejected.

## **20. GUARANTEE**

- 20.1 All Goods or Materials shall be supplied strictly in accordance with the specifications, drawings, data sheets, other attachments and conditions stated in the Contract.

No deviation from such specifications or alterations or of these conditions shall be made without Purchaser's /Consultant's agreement in writing which must be obtained before any work against the order is commenced. All materials supplied by the Supplier pursuant to the Contract (irrespective of whether engineering, design data or other information has been furnished, reviewed or approved by Purchaser/Consultant) are guaranteed to be of the best quality of their respective kinds (unless otherwise specifically authorised in writing by Purchaser/Consultant) and shall be free from faulty design, workmanship and materials, and to be of sufficient size and capacity and of proper materials so as to fulfil in all respects all operating conditions, if any, specified in the Contract.

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If any trouble or defect, originating with the design, material, workmanship or operating characteristics of any materials, arises at any time prior twelve(12) months from the date of the first commercial operation of the Goods/Equipments or twenty four (24) months from the date of last shipment whichever period shall first expire, and the Supplier is notified thereof, Supplier shall, at his own expense and as promptly as possible, make such alterations, repairs and replacements as may necessary to permit the materials to function in accordance with the specifications and to fulfil the foregoing guarantees. However, in no case, warranty of repaired/replaced part shall exceed 24 months from the date of commissioning of original equipment or 36 months from last supply, whichever is earlier. This period excludes repair/replacement/rectification period of defective goods.

Purchaser/Consultant may, at his option, remove such defective materials, at Supplier's expense in which event Supplier shall, without cost to Purchaser/Consultant and as promptly as possible, furnish and install proper materials.

In case defects are of such nature that Goods shall have to be taken to Supplier's works for rectification etc., Supplier shall take the Goods at his costs after giving necessary undertaking or security as may be required by Purchaser/Consultant. Purchaser/Consultant may, if so required by the Supplier, dispatch the Goods by quickest mode on "Freight-to- pay" basis to the Supplier's works. After repairs Supplier shall deliver the Goods at Site on freight pre-paid basis. All risks in transit to and fro and all expenses on account of to and fro freight, insurance, customs clearance, transportation and handling, port charges and customs duty etc. shall be borne by the Supplier.

In the event that the materials supplied do not meet the specifications and/or not in accordance with the drawings data sheets or the terms of the Contract (including guarantee period) and rectification is required at site, Purchaser/Consultant shall notify the Supplier giving full details of differences. The Supplier shall attend the site within seven (7) days of receipt of such notice to meet and agree with representatives of Purchaser/Consultant, the action required to correct the deficiency. Should the Supplier fail to attend meeting at Site within the time specified above, Purchaser/Consultant shall immediately rectify the work/materials and Supplier shall reimburse Purchaser all costs and expenses incurred in connection with such trouble or defect.

## **20.2 Performance Guarantee of Equipment**

- 20.2.1 Supplier shall guarantee that the performance of the Equipment supplied under the Contract shall be strictly in conformity with the specifications and shall perform the duties specified under the Contract.

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20.2.2 If the Supplier fails to prove the guaranteed performance of the Equipment set forth in the specification, the Supplier shall investigate the causes and carry out necessary rectifications/modifications to achieve the guaranteed performance. In case the Supplier fails to do so within a reasonable period, the Supplier shall replace the Equipment and prove guaranteed performance of the new equipment without any extra cost to Purchaser.

20.2.3 If the Supplier fails to prove the guarantee within a reasonable period, Purchaser/Consultant shall have the option to take over the Equipment and rectify, if possible, the Equipment to fulfil the guarantees and/or to make necessary additions to make up the deficiency at Supplier's risk and cost. All expenditure incurred by the Purchaser/Consultant in this regard shall be to Supplier's account.

## **21. TERMS OF PAYMENT**

21.1 In case of supply, payment shall be released within 15 days after receipt and acceptance of goods and submission of relevant documents complete in all respects through e-banking unless otherwise specifically mentioned in the Special Conditions of Contract.

21.2 The type(s) of payment to be made to the Supplier under this Contract shall be as mentioned above unless otherwise specifically specified in the Special Conditions of Contract.

21.3 The Supplier's request(s) for payment shall be made to the Purchaser in writing accompanied by an invoice describing, as appropriate, the Goods delivered and services performed, and by shipping documents submitted, and upon fulfillment of other obligations stipulated in the Contract. For release of payment, the following documents is to be submitted by supplier/ vendor:

- i) Supplier's Invoice indicating, inter alia description and specification of the goods, quantity, unit price, total value;
- ii) Packing list;
- iii) LR/GR/consignment note;
- iv) Manufacturer's guarantee certificate and in-house inspection certificate (wherever applicable);
- v) Inspection certificate issued by purchaser's inspector (wherever applicable); and
- vi) Any other document(s) as and if required in terms of the contract.

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21.4 Payment will be made in the currency or currencies in which the Contract Price has been stated in the Supplier's bid, as well as in other currencies in which the Supplier had indicated in his bid that he intends to incur expenditure in the performance of the Contract and wishes to be paid. If the requirements are stated as a percentage of the bid price alongwith exchange rates used in such calculations these exchange rates shall be maintained.

21.5 Mentioning of PAN no. in Invoice/Bill

As per CBDT Notification No. 95/2015 dated 30.12.2015, mentioning of PAN no. is mandatory for transactions related to procurement of goods / services exceeding Rs. 2 Lakhs per transaction or as amended from time to time.

Accordingly, Supplier should mention their PAN no. in their invoice/ bill for any transaction exceeding Rs. 2 lakhs. As provided in the notification, in case Supplier do not have PAN no., they have to submit declaration in Form 60 along with invoice/ bill for each transaction.

Payment of Supplier shall be processed only after fulfilment of above requirement.

21.6 Foreign Suppliers should ensure submission of Tax Residency Certificate(TRC), Form 10F or Permanent Establishment(PE) information within specified time.

**General Notes:**

- (i) All foreign currency payments to foreign bidder shall be released through Cash against Documents (CAD) through bank, If Supplier insists payment through an irrevocable Letter of Credit, which shall be opened through Government of India Nationalised Bank and hence shall not be confirmed. In case any bidder insists on confirmation, charges towards confirmation shall be borne by him. L/C shall be established within 30 days after receipt of acknowledgement of Letter/Fax of Acceptance/Purchase Order together with Contract Performance Security.
- (ii) For dispatches on FOT dispatch point (in India) basis involving payment through bank, the payment shall be through Purchaser's bank. Payment through Bank, wherever applicable, shall be released as per normal banking procedures.
- (iii) All bank charges incurred in connection with payments shall be to Supplier's account in case of Indian bidders and to respective accounts in case of Foreign bidder.
- (iv) Unless otherwise specifically stated in Bid Document, all payments shall be made in the currency quoted.
- (v) No interest charges for delay in payments, if any, shall be payable by Purchaser.

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- (vi) In case of Indian bidder, variation, if any, on account of customs duty on their built- in-import content, as per terms of bid document, shall be claimed separately by bidder after receipt of goods at site(s). However, any price benefits to the Purchaser, on account of such variation as per terms specified in the Bid Document, shall be passed on to the Purchaser alongwith invoicing itself.
- (vii) Agency commission, if any, to Indian agent for Foreign bidders, indicated in prices, shall be paid to the agent in equivalent Indian Rupees on receipt and acceptance of material at site and after completion of its role & responsibility by such agent.
- (viii) Wherever buy-back is involved, 5% payment towards supply of new item shall be made only after uplifting the buy-back items.
- 21.7 Further, after implementation of Vendor Invoice Management (VIM)Supplier/ Vendor to forward the invoice on VIM Collection Center or upload digital invoice on Portal (details of same will be provided in tender/contract). The copy of invoice and all other document mentioned above or in order/ contract is to be forwarded to address provided in order/contract.
22. **PRICES**
- 22.1 Prices charged by the Supplier for Goods delivered and Services performed under the Contract shall not, with the exception of any price adjustments authorized by the Contract, vary from the prices quoted by the Supplier in his bid.
23. **SUBLETTING & ASSIGNMENT**
- 23.1 The Supplier shall not without previous consent in writing of the Purchaser authority, sublet, transfer or assign the Contract or any part thereof or interest therein or benefit or advantage thereof in any manner whatsoever. Provided, nevertheless, that any such consent shall not relieve the Supplier from any obligation, duty or responsibility under the Contract.
- 23.2 There is no obligation on part of Purchaser/Consultant to release any payment to Sub-Contractor.
24. **TIME AS ESSENCE OF CONTRACT**
- 24.1 The original or extended time of delivery/completion of the Goods/Services as stipulated in the Contract shall be deemed to be the essence of the Contract.
25. **DELAYS IN THE SUPPLIER'S PERFORMANCE**

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25.1 If the specified delivery schedule is not adhered to or the progress of manufacture or supply of the items is not satisfactory or is not in accordance with the progress schedule, the Purchaser has the right to:

- i) hire for period of delay from elsewhere goods which in Purchaser's opinion will meet the same purpose as the Goods which are delayed and Supplier shall be liable without limitation for such hire charges plus overhead charges @ 15% thereupon; or
- ii) terminate /cancel the Contract in whole or in part without liability for termination/cancellation charges. In that event, Purchaser may procure from elsewhere goods which Purchaser's opinion would meet the same purpose as the Goods for which Contract is cancelled and Supplier shall be liable without limitations for the difference between the cost of such substitution and the price set forth in the Contract for the Goods involved; or
- iii) hire the substitute goods vide (i) above and if the ordered goods continue to remain undelivered thereafter, cancel the order in part or in full vide (ii) above.

25.2 Any inexcusable delay by the Supplier or his sub-contractor shall render the Supplier liable, without prejudice to any other terms of the Contract, to any or all of the following sanctions:

- o forfeiture of Contract Performance Security,
- o imposition of price reduction for delay in delivery and
- o termination of the contract for default.

As per Performance Evaluation procedure (Appendix-II), the Supplier's non-performance or poor performance shall affect the future business relationship with BGL and its PMCs.

## **26. PRICE REDUCTION SCHEDULE (PRS) FOR DELAYED DELIVERY**

26.1 Subject to Clause-29, if the Supplier fails to deliver any or all of the Goods or performance of the services within the time period (s) specified in the Contract, the Purchaser shall, without prejudice to his other remedies under the Contract, deduct from the Contract Price, a sum calculated on the basis of the Contract Price, including subsequent modifications.

26.1.1 Deductions shall apply as per following formula:

- A. For order including only supply of Goods/Equipment/Package

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In case of delay in delivery of equipment/materials or delay in completion, PRS shall be applicable  $\frac{1}{2}$  % (half percent) of the order value per complete week of delay or part thereof subject to a maximum of 5% (five percent) of the Total Contract Price/ Order Value.

The portion of supply completed in all respect which can be used for commercial operation shall not be considered for applying PRS, if delivered within contractual delivery period. The remaining supplies which are completed beyond the contractual delivery shall attract price reduction schedule @  $\frac{1}{2}$  % of the delayed delivery value maximum up to 5% of total Purchase Order Value.

Decision of the Purchaser in the matter of usage for commercial operation shall be final and binding.

Note: When installation and/or commissioning is in Supplier's scope, the above

clause 'A' will not be applicable, in such cases clause 'B' below will be applicable.

B. For order including both supply of Goods and Services (i.e. supervision, installation, erection, commissioning etc.)

**For delay in supply:**

The PRS shall be applicable @  $\frac{1}{2}$  % (half percent) of price of respective goods/equipment / package (including spares etc. even if prices are indicated separately in the order but excluding value of Services) per week of delay or part thereof subject to maximum 5% (five percent) of Total Contract/ Order Value excluding value of Services.

For delay in Services (i.e. supervision, installation, erection, commissioning etc.):

The PRS shall be applicable @  $\frac{1}{2}$  % (half percent) of Total Contract/ Order Value of respective equipment / package (including value of spares, Services etc. even if prices are indicated separately in the Contract) per week of delay or part thereof subject to maximum 5% (five percent) of Total Contract/ Order Value including value of Services.

In no case, total PRS shall exceed 5% (five percent) of Total Contract/ Order Value (Supply +Services).

However, if the completion of supply and services together are achieved within the overall completion period, no PRS shall be applicable.

For specific provision relating to supervision by Supplier (wherever applicable), refer SCC.

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- 26.2 Both Supplier and Purchaser agree that the above percentages of price reduction are genuine pre estimates of the loss/damage which the Purchaser would have suffered on account of delay/breach on the part of the Supplier and the said amount will be payable on demand without there being any proof of the actual loss/or damage caused by such breach/delay. A decision of the Purchaser/EIC in the matter of applicability of price reduction shall be final and binding.
- 26.3 In case of delay in delivery on the part of Supplier, the invoice/document value shall be reduced proportionately for the delay and payment shall be released accordingly.
- 26.4 In the event the invoice value is not reduced proportionately for the delay, the Purchaser may deduct the amount so payable by Supplier, from any amount falling due to the Supplier or by recovery against the Contract Performance Security.
- 26.5 In case of Annual Rate Contract (ARC), the PRS shall be applicable on the value of Release Order /Individual Order(s) and not on the entire value of ARC.
- 26.6 In case of FOT Site /dispatch point order, the value referred in PRS clause is the EXW value (i.e. excluding GST and Freight/Inland Transportation) for delay in supply. In case of Import, PRS shall be applicable on FOB amount (except EXW orders) for delay in supply.
- 26.7 PRS is the reduction in the consideration / contract value for the goods / services covered under this contract. In case of delay in supply/ execution of contract, Supplier should raise invoice for reduced value as per Price Reduction Schedule Clause (PRS clause). If Supplier has raised the invoice for full value, then Supplier shall issue Credit Note towards the applicable PRS amount with applicable taxes.

In such cases if Supplier fails to submit the invoice with reduced value or does not issue credit note as mentioned above, BGL will release the payment to Supplier after giving effect of the PRS clause with corresponding reduction of taxes charged on vendor's invoice, to avoid delay in delivery/collection of material.”

In case any financial implication arises on BGL due to issuance of invoice without reduction in price or non-issuance of Credit Note, the same shall be to the account of Supplier. BGL shall be entitled to deduct / setoff / recover such GST amount (CGST & SGST/UTGST or IGST) together with penalties and interest, if any, against any amounts paid or becomes payable by BGL in future to the Supplier under this contract or under any other contract.

## **27. REJECTIONS, REMOVAL OF REJECTED EQUIPMENT & REPLACEMENT**

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- 27.1 Preliminary inspection at Supplier's works by Inspector shall not prejudice Purchaser's/Consultant's claim for rejection of the Goods / Equipment on final inspection at Site or claims under warranty provisions.
- 27.2 If the Equipments are not of specification or fail to perform specified duties or are otherwise not satisfactory the Purchaser/Consultant shall be entitled to reject the Equipment/Material or part thereof and ask free replacement within reasonable time failing which obtain his requirements from elsewhere at Supplier's cost and risk.
- 27.3 Nothing in this clause shall be deemed to deprive the Purchaser and/or Affect any rights under the Contract which it may otherwise have in respect of such defects or deficiencies or in any way relieve the Supplier of his obligations under the Contract.
- 27.4 Goods/Equipment rejected by the Purchaser/Consultant shall be removed by the Supplier at his cost within 14 days of notice after repaying the amounts received against the Supply. Failure or any delays of Supplier for removal of Goods/Equipment, the Purchaser shall also be entitled to recover handling and storage charges @5% of the estimated value of such Goods for each month or part of a month without relieving the Supplier from any other related liability. In the event of the Supplier's failure to remove the same within a period of 6 months or as decided by the Purchaser, the Purchaser may take action for removal through auction or sale on behalf of the Supplier and at his risk in all respects. The Supplier shall be liable to pay the Purchaser the handling & storage charges as mentioned above plus overhead charges @ 15% of sale value of such materials. The decision of Purchaser w.r.t. such removal and the amount of the proceeds shall be final and binding on the Supplier. The Purchaser shall in no way be responsible for any deterioration or damage to the Equipment under any circumstances whatsoever.
- 27.5 In case of rejection of Equipment, Purchaser shall have the right to recover the amounts, if any, from any of Supplier's invoices pending with Purchaser or by alternative method(s).

## **28. TERMINATION OF CONTRACT**

### **28.1 Termination for Default**

28.1.1 The Purchaser may, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, terminate the Contract in whole or in part:

- (i) If the Supplier fails to deliver any or all of the Goods within the time period(s) specified in the Contract; or
- (ii) If the Supplier fails to perform any other obligation(s) under the Contract, and

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(iii) If the Supplier, in either of the above circumstances, does not cure his failure within a period of 30 days (or any such period as the Purchaser may authorize in writing) after receipt of the default notice from the Purchaser.

28.1.2 In the event the Purchaser terminates the Contract in whole or in part, pursuant to clause no. 28.1.1, the Purchaser may procure, upon such terms and in such manner as it deems appropriate, goods similar to those undelivered and the Supplier shall be liable to the Purchaser for any excess costs for such similar Goods. However, the Supplier shall continue performance of the Contract to the extent not terminated.

28.1.3 In case of termination of Contract herein set forth (under clause 28) [except under conditions of Force Majeure (under clause 29)], the Purchaser is entitled to put Supplier on under Suspension and/or Holiday as per provisions of “Procedure for Action in Case of Corrupt/Fraudulent/Collusive/Coercive Practices (Appendix-I)” and “Procedure for Evaluation of Performance of Vendor/ Supplier/ Contractor/ Consultant” of Tender Document (Appendix-II)”.

## **28.2 Termination for Insolvency**

28.2.1 The Purchaser, may at any time, terminate the Contract by giving written notice to the Supplier, without compensation to the Supplier, if the Supplier becomes bankrupt or otherwise insolvent, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Purchaser.

## **28.3 Termination for Convenience including short-closure**

28.3.1 The Purchaser may, by written notice/communication to the Supplier, may short-close/terminate the Contract, in whole or part, at any time for his convenience. The notice/communication to the Supplier shall specify that short-closure/termination is for the Purchaser’s convenience, the extent to which performance of work under the Contract is short-closed/terminated and the date upon which such short-closure/termination becomes effective.

28.3.2 The Goods that are complete and ready for shipment within 30 days after the Supplier’s receipt of notice/communication of termination/short-closure shall be purchased by the Purchaser at the Contract terms and prices. For the remaining Goods, the Purchaser may opt:

- (i) to have any portion completed and delivered at the Contract terms and prices, and /or
- (ii) to cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and for materials and parts previously procured by the Supplier.

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#### 28.4 Termination of Contract for Corrupt/Fraudulent/ Collusive/Coercive Practices and Non-Performance

If the Bidder/Supplier is found to have indulged in Corrupt/Fraudulent /Collusive/Coercive practices, the Contract shall be terminated and the Bidder/ Supplier shall be banned for future business with BGL. The detailed procedure for banning including suspension in this regard is attached as Appendix-I to this GCC.

Due to non- performance of the Supplier leading to termination of the Contract, the Supplier shall be put on suspension list and also on holiday list of Purchaser for a period mentioned in the detailed procedure. The detailed procedure for evaluation of performance in this regard is attached as Appendix-II to this GCC.

#### 29. FORCE MAJEURE

29.1 Force Majeure shall mean and be limited to the following:

- (i) Act of terrorism;
- (ii) Riot, war, invasion, act of foreign enemies, hostilities (whether war be declared or not), civil war, rebellion, revolution, insurrection of military or usurped power;
- (iii) Ionizing, radiation or contamination, radio activity from any nuclear fuel or from any nuclear waste from the combustion of nuclear fuel, radioactive toxic explosive or other hazardous properties of any explosive assembly or nuclear component;
- (iv) Pandemic, Epidemics, earthquakes, flood, natural fire/wildfire, hurricanes, typhoons or other physical natural disaster, but excluding weather conditions regardless of severity; and
- (v) Freight embargo, strikes at national or state-wide level or industrial disputes (more than 7 consecutive days) at a national or state-wide level where supplier's Works is located.

For the avoidance of doubt, inclement weather, third party breach, delay in supply of materials (other than conditions mentioned above at sl. no. (i) to (v)) or commercial hardship shall not constitute a Force Majeure event.

The Supplier shall advise Purchaser/Consultant by a registered letter/courier duly certified by the local Chamber of Commerce or statutory authorities, the beginning and end of the above causes of delay within ten (10) days of the occurrence and cessation of such Force Majeure Conditions.

The extension of time for a period upto the period of delay attributable to the causes of Force Majeure shall be the sole remedy of the Supplier for any delay under this clause and the Supplier shall not be entitled in addition to or in lieu of such extension to claim any

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damages or compensation on any account whatsoever whether under the law governing contracts or any other law in force, and the Supplier hereby waives and disclaims any and all contrary rights.

In case force majeure conditions persists for period exceeding 02 (Two) Months, the Purchaser reserves the right to cancel the Purchase order or part of it.

Supplier shall categorically specify the extent of Force Majeure Conditions prevalent in their works at the time of submitting their bid and whether the same have been taken into consideration or not in their quotations. In the event of any force majeure cause, the Supplier or the Purchaser shall not be liable for delays in performing their obligations under this order and the delivery dates will be extended to the Supplier without being subject to price reduction for delayed deliveries, as stated elsewhere.

Payment in case of termination due to Force Majeure

In case of termination of Order/contract due to Force Majeure, the Supplier will get payment of goods supplied and/ or services performed as at the date of the commencement of the relevant event of Force Majeure.

The Supplier has no entitlement and Purchaser has no liability for:

- (i) Any costs, losses, expenses, damages or the payment of any part of the Order/ Contract Price during an event of Force Majeure; and
- (ii) Any delay costs in any way incurred by the Supplier due to an event of Force Majeure.

### **30. DISPUTE RESOLUTION MECHANISM**

#### **30.1 Conciliation**

Bhagyanagar Gas Limited has framed the Conciliation Rules 2010 in conformity with Part – III of the Arbitration and Conciliation Act 1996 as amended from time to time for speedier, cost effective and amicable settlement of disputes through conciliation. All issue(s)/dispute(s) arising under the Contract, which cannot be mutually resolved within a reasonable time, may be referred for conciliation in accordance with BGL Conciliation Rules 2010 as amended from time to time. A copy of the said rules have been made available on BGL's web site.

Where invitation for Conciliation has been accepted by the other party, the Parties shall attempt to settle such dispute(s) amicably under Part-III of the Arbitration and Conciliation Act, 1996 and Bhagyanagar Gas Limited Conciliation Rules, 2010. It would be only after exhausting the option of Conciliation as an Alternate Dispute Resolution

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Mechanism that the Parties hereto shall invoke Arbitration Clause. For the purpose of this clause, the option of 'Conciliation' shall be deemed to have been exhausted, even in case of rejection of 'Conciliation' by any of the Parties.

### **30.2 Arbitration**

All issue(s)/dispute(s) excluding the matters that have been specified as excepted matters and listed at clause no. 30.2.6 and which cannot be resolved through Conciliation, such issue(s)/dispute(s) shall be referred to arbitration for adjudication by Sole Arbitrator.

The party invoking the Arbitration shall have the option to either opt for Ad-hoc Arbitration as provided at Clause 30.2.1 below or Institutionalized Arbitration as provided at Clause

30.2.2 below, the remaining clauses from 30.2.3 to 30.2.7 shall apply to both Ad-hoc and Institutional Arbitration:-

30.2.1 On invocation of the Arbitration clause by either party, BGL shall suggest a panel of three independent and distinguished persons (Retd Supreme Court or High Court Judges only) to the other party from the Panel of Arbitrators maintained by 'Hyderabad Arbitration Centre (HAC) to select any one among them to act as the Sole Arbitrator. In the event of failure of the other party to select the Sole Arbitrator within 30 days from the receipt of the communication from BGL suggesting the panel of arbitrators, the right of selection of the sole arbitrator by the other party shall stand forfeited and BGL shall appoint the Sole Arbitrator from the suggested panel of three Arbitrators for adjudication of dispute(s). The decision of BGL on the appointment of the sole arbitrator shall be final and binding on the other party. The fees payable to Sole Arbitrator shall be governed by the fee Schedule of "Hyderabad Arbitration Centre".

OR

30.2.2 If a dispute arises out of or in connection with this contract, the party invoking the Arbitration shall submit that dispute to any one of the Arbitral Institutions i.e. ICADR/ICA/DIAC/SFCA/HAC and that dispute shall be adjudicated in accordance with their respective Arbitration Rules. The matter shall be adjudicated by a Sole Arbitrator who shall necessarily be a Retd. Supreme Court/High Court Judge to be appointed/nominated by the respective institution. The cost/expenses pertaining to the said Arbitration shall also be governed in accordance with the Rules of the respective Arbitral Institution. The decision of the party invoking the Arbitration for reference of dispute to a specific Arbitral institution for adjudication of that dispute shall be final and binding on both the parties and shall not be subject to any change thereafter. The institution once selected at the time of invocation of dispute shall remain unchanged.

30.2.3 The cost of arbitration proceedings shall be shared equally by the parties.

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30.2.4 The Arbitration proceedings shall be in English language and the seat, venue and place of Arbitration shall be Hyderabad, India only.

30.2.5 Subject to the above, the provisions of Arbitration & Conciliation Act 1996 and any amendment thereof shall be applicable. All matter relating to this Contract and arising out of invocation of Arbitration clause are subject to the exclusive jurisdiction of the Court(s) situated at Hyderabad.

**30.2.6 List of Excepted matters:**

- (i) Dispute(s)/issue(s) involving claims below Rs 25 lakhs and above Rs 25 crores.
- (ii) Dispute(s)/issue(s) relating to indulgence of Supplier/Vendor/Bidder in corrupt/fraudulent/collusive/coercive practices and/or the same is under investigation by CBI or Vigilance or any other investigating agency or Government.
- (iii) Dispute(s)/issue(s) wherein the decision of Engineer-In- Charge/owner/BGL has been made final and binding in terms of the Contract.

30.2.7 Disputes involving claims below Rs 25 Lakhs and above Rs. 25 crores:-Parties mutually agree that dispute(s)/issue(s) involving claims below Rs 25 Lakhs and above Rs 25 crores shall not be subject matter of Arbitration and are subject to the exclusive jurisdiction of the Court(s) situated at Hyderabad.

**30.3 Governing Law and Jurisdiction:**

The Contract shall be governed by and construed in accordance with the laws in force in India. The Parties hereby submit to the exclusive jurisdiction of the Courts situated at Hyderabad for adjudication of disputes, injunctive reliefs, actions and proceedings, if any, arising out of this Contract.

**30.4 Disputes between CPSE's/Government Department's/ Organizations**

Subject to conciliation as provided above, in the event of any dispute (other than those related to taxation matters) or difference relating to the interpretation and application of the provisions of commercial contract(s) between Central Public Sector Enterprises (CPSEs/ Port Trusts) inter se and also between CPSEs and Government Departments /Organizations), such dispute or difference shall be taken up by either party for resolution only through AMRCD as mentioned in OPE OM No. 4(1)/2013-DPE(GM)/FTS-1835 dated 22-05-2018.

Any party aggrieved with the decision of the Committee at the First level (tier) may prefer an appeal before the Cabinet Secretary at the Second level (tier) within 15 days from the date of receipt of decision of the Committee at First level, through it's administrative Ministry/Department, whose decision will be final and binding on all concerned.

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The above provisions mentioned at clause no. 30.1 to 30.4 shall supersede provisions relating to Conciliation, Arbitration, Governing Law & Jurisdiction and Disputes between CPSE's/ Government Department's/ Organizations mentioned elsewhere in tender document.

**30.5 Continuance of the Contract:**

Notwithstanding the fact that settlement of dispute(s) (if any) may be pending, the parties hereto shall continue to be governed by and perform the work in accordance with the provisions under this Contract and no payment due or payable to the Supplier shall be withheld on account of such proceedings.

**30.6 Non-Applicability of Arbitration Clause in Case of Banning of Vendors/ Suppliers / Bidders indulged in Fraudulent/ Coercive Practices**

Notwithstanding anything contained contrary in GCC or elsewhere in the Purchase Order, in case it is found that the Bidder/ Supplier indulged in fraudulent/ coercive practices at the time of bidding, during execution of the Contract and/or on other grounds as mentioned in BGL's "Procedure for action in case Corrupt/ Fraudulent/ Collusive/Coercive Practices" (Appendix-I), the Bidder/Supplier shall be banned (in terms of aforesaid procedure) from the date of issuance of such order by Bhagyanagar Gas Ltd., to such Bidder/Supplier.

The Bidder /Supplier understands and agrees that in such cases where Bidder /Supplier has been banned (in terms of aforesaid procedure) from the date of issuance of such order by BGL, such decision of BGL shall be final and binding on the Bidder /Supplier and the 'Arbitration Clause' mentioned in the GCC or elsewhere in the Purchase Order shall not be applicable for any consequential issue /dispute arising in the matter.

**31. GOVERNING LANGUAGE**

- 31.1 The Contract shall be written in English language as specified by the Purchaser/Consultant in the Instruction to Bidders. All literature, correspondence and other documents pertaining to the Contract which are exchanged by the parties shall be written in English language. Printed literature in other language shall only be considered, if it is accompanied by an English translation. For the purposes of interpretation, English translation shall govern and be binding on all parties. The Supplier shall bear all costs of translation to the governing language and all risks of the accuracy of such translation.

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31.2 The Supplier shall ensure that the language/terminology/description of Goods used in Purchase Order/Bill of Lading/Airway Bill/Invoice is verbatim in English and not at variance.

### **32. NOTICES**

32.1 **TO THE SUPPLIER:** Any notice to be given to the Supplier may be served by the Purchaser/Consultant by facsimile / e-mail or through registered post/Courier at the address/contact information furnished by the Supplier. Proof of issue of any such notice could be conclusive of the Supplier having been duly informed of all contents therein.

32.2 **TO THE PURCHASER/CONSULTANT:** Any notice to be given to the Purchaser/Consultant under the terms of the Contract may be served by the Supplier, by facsimile / e-mail or delivering the same through registered post /Courier at the concerned site office.

32.3 A notice shall be effective when delivered or on the notice's effective date, whichever is later.

### **33. TAXES & DUTIES**

33.1 A foreign Supplier shall be entirely responsible for all taxes, stamp duties, license fees, and other such levies imposed outside the Purchaser's country.

33.2 A domestic Supplier shall be entirely responsible for all taxes, duties, license fees etc. incurred until the delivery of the contracted goods to the Purchaser. However, GST on finished products shall be reimbursed by Purchaser.

33.3 Customs duty payable in India for imported Goods ordered by Purchaser on foreign Supplier shall be borne and paid by Purchaser.

33.4 Any income tax payable in respect of supervisory services rendered by foreign Supplier under the Contract shall be as per the Indian Income Tax Act and shall be borne by Supplier. It is upto the Bidder/Supplier to ascertain the amount of these taxes and to include them in his Bid price.

### **33.5 TDS**

33.5.1 TDS as applicable will be deducted by BGL under section 194Q of the Income Tax Act, 1961 on Purchases exceeds Rs. 50 Lakhs or limit defined therein from time to time during the financial year.

33.5.2 Since BGL is liable to deduct Income Tax TDS under section 194Q, the provision of TCS as per section 206C(1H) of the Income Tax Act, 1961 shall not be applicable.

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### 33.5.3 Higher rate of TDS for non-filers of ITR

As per Section 206AB of Income Tax Act, 1961, in case of any vendor/customer who does not file their Income Tax Return for both of the two previous years preceding to current year and aggregate amount of TDS is more than or equal to Rs. 50,000/- in each of those previous two years (or limit defined by Govt. from time to time), then TDS will be deducted at the higher of following rates:

- (i) Twice the rate mentioned in relevant TDS section.
- (ii) Twice the rate or rates in force
- (iii) 5%

## 34. BOOKS & RECORDS

34.1 Supplier shall maintain adequate books and records in connection with Contract and shall make them available for inspection and audit by Purchaser/Consultant or their authorized agents or representatives during the terms of Contract until expiry of the Contract Performance Security. Fixed price (lumpsum or unit price) Contract will not be subject to audit as to cost except for cost reimbursable items, such as escalation and termination claims, transportation and comparable requirements.

## 35. PERMITS & CERTIFICATES

35.1 Supplier shall procure, at his expense, all necessary permits, certificates and licenses required by virtue of all applicable laws, regulations, ordinances and other rules in effect at the place where any of the work is to be performed, and Supplier further agrees to hold Purchaser and/or Consultant harmless from liability or penalty which might be imposed by reason of any asserted or established violation of such laws, regulations, ordinances or other rules. Purchaser will provide necessary permits for Supplier's personnel to undertake any work at Site in connection with Contract.

## 36. GENERAL

36.1 In the event that terms and conditions stipulated in the General Conditions of Contract should deviate from terms and conditions stipulated in the Contract, the latter shall prevail.

36.2 Losses due to non-compliance of Instructions

Losses or damages occurring to the Purchaser owing to the Supplier's failure to adhere to any of the instructions given by the Purchaser/Consultant in connection with the Contract execution shall be recoverable from the Supplier.

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### **36.3 Recovery of sums due**

All costs, damages or expenses which the Purchaser/Consultant may have paid, for which under the Contract Supplier is liable, may be recovered by the Purchaser(he is hereby irrevocably authorized to do so) from any money due to or becoming due to the Supplier under this Contract or other Contracts and/or may be recovered by action at law or otherwise. If the sums due to the Supplier be not sufficient to recover the recoverable amount, the Supplier shall pay to the Purchaser, on demand, the balance amount.

### **36.4 Payments, etc. not to affect rights of the Purchaser**

No sum paid on account by the Purchaser nor any extension of the date for completion granted by the Purchaser/Consultant shall affect or prejudice the rights of the Purchaser against the Supplier or relieve the Supplier of his obligation for the due fulfillment of the Contract.

### **36.5 Cut-off Dates**

No claims or correspondence on claims on this Contract shall be entertained by the Purchaser/Consultant after 90 days after expiry of the Contract Performance Security (from the date of final extension, if any)

### **36.6 Indemnity**

The Supplier hereby irrevocably and unconditionally undertakes to indemnify and keep indemnified the Purchaser/BGL and all its employees, agents and assigns from and against all losses, penalties interests, costs etc., which may arise out of breach of any terms and conditions of this Contract by the Supplier and the employees' /personnel/sub-contractors/agents or any third party appointed by the Supplier for the purpose of implementation of their obligations under this Contract. The Supplier undertakes to compensate the Purchaser/BGL forthwith on demand without protest any loss suffered by the Purchaser/BGL together with direct/indirect expenses . This Indemnity shall remain valid and irrevocable for all claims of the Purchaser/BGL arising from any such case or court case filed for which Purchaser/BGL or its employees has been made party until now or here -in- after.

### **36.7 Paragraph heading**

The paragraph heading in these conditions shall not affect the construction thereof.

### **36.8 Retired Purchaser's Director**

No Director of BGL is allowed to participate in tender for a period of 1 (one) year after his retirement from the employment, without the prior permission. The Contract if awarded is liable to be cancelled if the tenderer is found at any time to be such a person

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and has not obtained the permission of BGL before submission of the tender. Any tender by a person aforesaid shall carry a disclosure thereof on the tender, and shall be accompanied by a copy of the document by which the requisite consent is given. Such disqualifications shall apply to every partner of a partnership firm.

The tenderer is required to state whether he is a relative of any Director of BGL, or whether the tenderer is a partnership firm, whether a Director of BGL or its relative is a partner in the firm, or whether the tenderer is a Company, whether a Director of BGL or relative of such Director is a substantial member holding more than 10% (ten percent) of the paid up capital in the Company, or a Director of the Company. The definition of relative shall be as per The Companies Act, 2013 and its amendment(s).

### **37. IMPORT LICENSE**

37.1 No import license is required for the imports covered under this Contract.

### **38. FALL CLAUSE**

The following Fall Clause shall be applicable in the Contract, only if there is a specific mention of its applicability in ITB or SCC of Tender Document.

38.1 The price charged for the Goods supplied under the Contract by the Supplier shall in no event exceed the lowest price at which the Supplier or his agent/principal/dealer, as the case may be, sells the Goods of identical description to any Persons/Organizations including the Purchaser or any Department of the Central Govt. or any Department of a State Govt. or any Statutory Undertaking of the Central or State Govt. as the case may be, during the currency of the Contract.

38.2 If at any time during the said period, the Supplier or his agent/principal/dealer, as the case may be, reduces the sale price, sells or offers to sell such materials to any persons/organizations including the Purchaser or any Deptt. of Central Govt. or State Govt. as the case may be, at a price lower than the price chargeable under the Contract, he shall forthwith notify such reduction or sale or offer of sale to the Purchase Authority who has issued the Purchase Order and the price payable under the Purchase Order for the materials supplied after the date of coming into force of such reduction or sale or offer of sale shall stand correspondingly reduced.

The above stipulation will, however, not apply to:

- (i) Export/Deemed Export by the Supplier or
- (ii) Sale of goods as original equipment prices lower than the price charged for normal replacement;
- (iii) Sale of goods such as drugs, which have expiry date;

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- (iv) Sale of goods at lower price on or after the date of completion of sale/placement of order of goods or services by the authority concerned, under the existing or previous Rate Contracts as also under any previous contracts entered into with the Central or State Government Departments including new undertakings (excluding joint sector companies and or private parties) and bodies.

38.3 The Supplier shall furnish the following certificate to the concerned Paying Authority along with each bill for payment for supplies made against this order:-

“I/We certify that there has been no reduction in sale price of the items/Goods/materials of description identical to those supplied to the BGL under the order herein and such items/Goods/materials have not been offered/sold by me/us to any person/organizations including the Purchaser or any Deptt. of Central Govt. or any Deptt. of State Govt. or any Statutory Undertaking of the Central or State Govt. as the case may be upto the date of bill/during the currency of the Contract whichever is later, at a price lower than the price charged to the BGL under this Purchase Order”.

Such a certificate shall be obtained, except for quantity of items/Goods/materials categories under sub-clause (i), (ii) & (iii) of sub-para 38.2 above, of which details shall be furnished by the Supplier.

#### **39. PUBLICITY & ADVERTISING**

39.1 Supplier shall not without the written permission of Purchaser/Consultant make a reference to Purchaser/Consultant or any Company affiliated with Purchaser/Consultant or to the destination or the description of goods or services supplied under the contract in any publication, publicity or advertising media.

#### **40. REPEAT ORDER**

40.1 Purchaser reserves the right, within 6 months of order to place repeat order up to 25% of the original quantity without any change in unit price or other terms and conditions.

#### **41. LIMITATION OF LIABILITY**

41.1 Notwithstanding anything contrary contained herein, the aggregate total liability of Supplier, excluding his liability towards infringement of patent & trade mark or industrial design rights or willful misconduct or fraud, under the contract or otherwise shall be limited to 100% of value of Purchase order.

However, neither party shall be liable to the other party for any indirect and consequential damages, loss of profits or loss of production.

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#### **42. COMPLETION CERTIFICATE AND EXECUTION CERTIFICATE**

- 42.1 No Completion Certificate shall be issued against orders for supply of goods only. However, for these cases, a copy of Good Receipt (GR) duly signed by concerned Store-in-charge will be forwarded to the Supplier.
- 42.2 Completion Certificate, in case of Purchase Orders for supply of Goods along with associated/incidental Services (like erection, installation, commissioning etc.) should be issued after completion of supplies/services in accordance with Contract.
- 42.3 Completion of supplies, for issuance of completion certificate, shall be completion of supply and acceptance of Goods in all respect as per provisions of Contract.
- 42.4 Application for Completion Certificate: When the Supplier fulfills his obligation under the Contract he shall be eligible to apply for Completion Certificate. The Purchaser/Consultant shall normally issue to the Supplier the Completion Certificate within one month after receiving any application thereof from the Supplier after verifying from the completion documents and satisfying himself that the supplies have been made in accordance with and as set out in the Contract.
- 42.5 Completion Certificate: Within one month from receipt of application from Supplier after the completion of the Supplies in all respects as specified above at clause no. 42.4, the Supplier shall be furnished with a certificate by the Purchaser/Consultant such completion. Purchaser's/Consultant's certification about completion of supplies in all aspects shall be binding and conclusive.
- 42.6 Execution Certificate: Execution Certificate during currency of Rate contract can be issued by Purchaser/Consultant against written request from Supplier.

#### **43.0 PROVISIONS FOR BUY-BACK ITEMS:**

The following provision for Buy-Back shall be applicable in the Contract, only if there is a specific mention of its applicability in ITB or SCC of Tender Document.

- 43.1 Old materials will be handed over to the Supplier in terms of the contract with proper documentation on "as is where is basis". The Supplier is required to take away such materials out of BGL immediately after handing over to them.
- 43.2 The Supplier will not sell these materials to any Purchaser's employee without written permission of Purchaser/HR Department-Purchaser, to be obtained by the Purchaser employee(s). Even after such permission is obtained by employee(s), the Supplier is free to take decision whether to sell such item(s) to Purchaser employee(s) or not.

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- 43.3 The Supplier will maintain a separate record for such sales to Purchaser employees and will make the same available as and when required by Purchaser.
- 43.4 The Supplier will accept payment only by Cheque/Demand Draft/e-banking (NEFT) for sale of old item(s) to BGL employee(s).
- 43.5 The Supplier is required to take away the buy-back items out of BGL premises at his cost within 14 days of notice. Failure or any delays of Supplier for removal of buy-back items, the Purchaser shall be entitled to recover handling and storage charges @5% of the buy-back value of such items for each month or part of a month without relieving the Supplier from any other related liability. In the event of the Supplier's failure to remove the same within a period of 6 months, the Purchaser will take action for removal through auction or sale on behalf of the Supplier and at his risk in all respects. The buy back amount deducted from payment and proceed of such action or sale will be adjusted towards handling, storage and overhead charges of BGL. The decision of Purchaser w.r.t. such removal and the amount of the proceeds shall be final and binding on the Supplier. The Purchaser shall in no way be responsible for any deterioration or damage to the Equipment under any circumstances whatsoever. Further, such action shall be considered as poor-performance and action will be taken as per procedure in this regard.

**44.0 CONFIDENTIALITY:**

The Supplier, it's Sub-Contractor and their personnel shall not, either during the term or within two (2) years after the expiration of this Contract, disclose any proprietary or confidential information related to work / Project, this Contract, or Purchaser's business or operations without the prior consent of the Purchaser.

**45.0 INTELLECTUAL PROPERTY RIGHT:**

The Supplier shall retain the copy right and other intellectual property rights in the Supplier's document and other design documents made by (or on behalf of) the Supplier.

Subject to the confidentiality obligations, by signing the Contract, within the value of Contract, the Supplier shall be deemed to give to the Purchaser a non-terminable, transferable, non-exclusive and royalty-free right to copy, use and communicate the Supplier's documents for the operation, maintenance, repair of the Goods/Work / Plant, training and Statutory purposes, but not for any other purpose. Such documents of the Supplier shall not be used, copied or communicated to a third party by or on behalf of the Purchaser for the purposes other than those permitted, without the Supplier's Consent.

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**APPENDIX-1**

**PROCEDURE FOR ACTION IN CASE  
CORRUPT/FRAUDULENT/COLLUSIVE/COERCIVE PRACTICES**

**Definitions:**

- A.1 "Corrupt Practice" means the offering, giving, receiving or soliciting, directly or indirectly, anything of value to improperly influence the actions in selection process or in contract execution. "Corrupt Practice" also includes any omission for misrepresentation that may mislead or attempt to mislead so that financial or other benefit may be obtained or an obligation avoided.
- A.2 "Fraudulent Practice" means and include any act or omission committed by a agency or with his connivance or by his agent by misrepresenting/ submitting false documents and/ or false information or concealment of facts or to deceive in order to influence a selection process or during execution of contract/ order.
- A.3 "Collusive Practice amongst bidders (prior to or after bid submission)" means a scheme or arrangement designed to establish bid prices at artificial non-competitive levels and to deprive the Employer of the benefits of free and open competition.
- A.4 "Coercive practice" means impairing or harming or threatening to impair or harm directly or indirectly, any agency or its property to influence the improperly actions of an agency, obstruction of any investigation or auditing of a procurement process.
- A.5 "Vendor/Supplier/Contractor/Consultant/Bidder" is herein after referred as "Agency"
- A.6 "Appellate Authority" shall mean Committee of Directors consisting of Managing Director and Director (Commercial).
- A.7 "Competent Authority" shall mean the authority, who is competent to take final decision for Suspension of business dealing with an Agency/ ies and Banning of business dealings with Agency/ies and shall be the MD..
- A.8 "Allied Agency" shall mean all the concerns within the sphere of effective influence of banned/ suspended agencies. In determining this, the following factors may be taken into consideration:
- Whether the management is common;
  - Majority interest in the management is held by the partners or directors of banned/ suspended firm.
  - substantial or majority shares are owned by banned/ suspended agency and by virtue of this it has a controlling voice.
  - Directly or indirectly controls, or is controlled by or is under common control with another bidder.
  - All successor agency will also be considered as allied agency.
- A.9 "Investigating Agency" shall mean any department or unit of BGL investigating into the conduct of Agency / party and shall include the Vigilance Department of the BGL, Central Bureau of Investigation, State Police or any other agency set up by the Central or state government having power to investigate.

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**A.5** "Obstructive practice": materially impede the procuring entity's investigation into allegations of one or more of the above mentioned practices either by deliberately destroying, falsifying, altering; or by concealing of evidence material to the investigation; or by making false statements to investigators and/ or by threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or by impeding BGL 's rights of audit or access to information.

**B Actions against bidder(s) indulging in corrupt /fraudulent/ collusive/ coercive practice**

**B.1 Irregularities noticed during the evaluation of the bids :**

If it is observed during bidding process/ bids evaluation stage that a bidder has indulged in corrupt/fraudulent /collusive/coercive practice, the bid of such Bidder (s) shall be rejected and its Earnest Money Deposit (EMD) shall be forfeited.

Further, such agency shall be banned for future business with BGL for a period specified in para B 2.2 below from the date of issue of banning order.

**B.2 Irregularities noticed after award of contract**

**(i) During execution of contract:**

If an agency, is found to have indulged in corrupt/fraudulent/ collusive/coercive practices, action shall be initiated for putting the agency on banning list

After conclusion of process and issuance of Speaking order for putting party on banning list as per process defined in para E, the order (s)/ contract (s) where it is concluded that such irregularities have been committed shall be terminated and Contract cum Performance Bank Guarantee (CPBG) submitted by agency against such order (s)/ contract (s) shall also be forfeited. Further such order/ contract will be closed following the due procedure in this regard.

The amount that may have become due to the contractor on account of work already executed by him shall be payable to the contractor and this amount shall be subject to adjustment against any amounts due from the contractor under the terms of the contract. No risk and cost provision will be enforced in such cases.

**Suspension of order/ contract:**

Further, only in the following situations, the concerned order (s)/ contract(s) (where Corrupt/Fraudulent/ Collusive/ Coercive Practices are observed) and payment shall be suspended after issuance of Suspension cum Show Cause Notice:

- (i) Head of Corporate Vigilance Department/CVO based on the investigation by them, recommend for specific immediate action against the agency.

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**Tender for Procurement of Turbine Flow Meter (Custody Meter)  
and EVC at Mother Station to get 4-20 mA flow signal to automize  
Odorization Unit at Vijayawada GA  
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- (ii) Head of Corporate Vigilance Department/CVO based on the input from investigating agency, forward for specific immediate action against the agency.

Suspension cum Show Cause Notice being issued in above cases after approval of the competent authority (as per provisions mentioned under Clause no. D) shall also include the provision for suspension of Order (s)/ Contract (s) and payment. Accordingly, after issuance of Suspension cum Show Cause Notice, the formal communication for suspension of Order (s)/ Contract (s) and payment with immediate effect will be issued by the concerned person of BGL.

During suspension, Contractor/ Service Providers will be allowed to visit the plant/ site for upkeep of their items/ equipment, BGL's issued materials (in case custody of same is not taken over), demobilizing the site on confirmation of EIC, etc.

In addition to above, Recovery of payments including advance payments, if any, made by along with interest thereon at the prevailing rate shall be recovered.

- (ii) **After execution of contract and during Defect liability period (DLP)/ Warranty/Guarantee Period:**

If an agency is found to have indulged in corrupt/fraudulent/ collusive/coercive practices, after execution of contract and during DLP/ Warranty/Guarantee Period, the agency shall be banned for future business with BGL for a period specified in para B 2.2 below from the date of issue of banning order.

Further, the Contract cum Performance Bank Guarantee (CPBG) submitted by agency against such order (s)/ contract (s) shall be forfeited.

- (iii) **After expiry of Defect liability period (DLP)/ Warranty/Guarantee Period**

If an agency is found to have indulged in corrupt/fraudulent/ collusive/coercive practices, after expiry of Defect liability period (DLP)/ Warranty/Guarantee Period, the agency shall be banned for future business with BGL for a period specified in para B 2.2 below from the date of issue of banning order.

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**B.2.2 Period of Banning :**

The period of banning of agencies indulged in Corrupt/Fraudulent/Collusive/Coercive Practices shall be as under and to be reckoned from the date of banning order:

S. No.	Description	Period of banning from the date of issuance of Banning order
1	Misrepresentation/False information other than pertaining to BEC of tender but having impact on theselection process. For example, if an agency confirms not being in holiday in BGL/ GAIL/HPCL/PSU's PMC or banned by PSUs/ Govt. Dept., liquidation, bankruptcy & etc. and subsequently it is found otherwise, such acts shall be considered in this category.	06 Months
2	Corrupt/Fraudulent (except mentioned sl. no. 1 above) /Collusive/Coercive Practices	01 years
2.1	If an agency again commits Corrupt/Fraudulent (except mentioned sl. no. 1 above) /Collusive/Coercive Practices in subsequent cases after theirbanning, such situation of repeated offense to be dealt with more severity	2 years (in addition to the periodalready served)
3	Indulged in unauthorized disposal of materials provided by BGL.	2 years
4	If act of vendor/ contractor is a threat to the National Security	2 years

**C Effect of banning on other ongoing contracts/ tenders**

C.1 If an agency is put on Banning, such agency should not be considered in ongoing tenders/future tenders.

C.2 However, if such an agency is already executing other order (s)/ contract (s) where no corrupt/fraudulent/ collusive/coercive practice is found, the agency should be allowed

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to continue till its completion without any further increase in scope except those incidental to original scope mentioned in the contract.

- C.3 If an agency is put on the Banning List during tendering and no irregularity is found in the case under process:
- C.3.1 after issue of the enquiry /bid/tender but before opening of Technical bid, the bid submitted by the agency shall be ignored.
- C.3.2 after opening Technical bid but before opening the Price bid, the Price bid of the agency shall not be opened and BG/EMD submitted by the agency shall be returned to the agency.
- C.3.3 after opening of price, BG/EMD made by the agency shall be returned; the offer of the agency shall be ignored & will not be further evaluated. In case such agency is lowest (L-1), next lowest bidder shall be considered as L-1. Bid security submitted by such debarred firms shall be returned to them.

**D. Procedure for Suspension of Bidder**

**D.1 Initiation of Suspension**

Action for suspension business dealing with any agency/(ies) shall be initiated when

- (i) Corporate Vigilance Department based on the fact of the case gathered during investigation by them recommend for specific immediate action against the agency.
- (ii) Corporate Vigilance Department based on the input from Investigating agency, forward for specific immediate action against the agency.
- (iii) Non performance of Vendor/Supplier/Contractor/Consultant leading to termination of Contract/ Order.

**D.2 Suspension Procedure:**

- D.2.1 The order of suspension would operate initially for a period not more than six months and is to be communicated to the agency and also to Corporate Vigilance Department. Period of suspension can be extended with the approval of the Competent Authority by

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one month at a time with a ceiling of six months pending a conclusive decision to put the agency on banning list.

- D.2.2 The suspension order shall also be hosted on BGL 's site and a copy will be forwarded to all HODs by C&P Department. During the period of suspension, no new business dealing may be held with the agency.
- D.2.3 Period of suspension shall be accounted for in the final order passed for banning of business with the agency.
- D.2.4 The decision regarding suspension of business dealings should also be communicated to the agency.

**D3 Effect of Suspension of business:**

Effect of suspension on other on-going/future tenders will be as under:

- D.3.1 No enquiry/bid/tender shall be entertained from an agency as long as the name of agency appears in the Suspension List.
- D.3.2 If an agency is put on the Suspension List during tendering:
- D.3.2.1 After issue of the enquiry /bid/tender but before opening of Technical bid, the bid submitted by the agency shall be ignored.
- D.3.2.2 After opening Technical bid but before opening the Price bid, the Price bid of the agency shall not be opened and BG/EMD submitted by the agency shall be returned to the agency.
- D.3.2.3 After opening of price, BG/EMD made by the agency shall be returned; the offer of the agency shall be ignored & will not be further evaluated.  
In case such agency is lowest (L-1), next lowest bidder shall be considered as L-1. Bid security submitted by such debarred firms shall be returned to them
- D.3.3 The existing contract (s)/ order (s) under execution shall continue.
- D.3.4 Tenders invited for procurement of goods, works and services shall have provision that the bidder shall submit a undertaking to the effect that (i) neither the bidder themselves nor their allied agency/(ies) are on banning list of BGL or the Ministry of Petroleum and Natural Gas and (ii) bidder is not banned by any Government department/ Public Sector.

**E. Appeal against the Decision of the Competent Authority:**

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- (a) The party may file an appeal against the order of the Competent Authority for putting the party on Holiday list. The appeal shall be filed to Appellate Authority. Such an appeal shall be preferred within one month from the receipt of Holiday order.
  - (b) Appellate Authority would consider the appeal and pass appropriate order which shall be communicated to the party as well as the Competent Authority.
  - (c) Appeal process may be completed within 45 days of filing of appeal with the Appellate Authority.
  - (d) “Appellate Authority” shall mean Committee of Directors
  - (e) A Holiday order may be revoked before the expiry of the Order, by the Appellate authority, if it is of the opinion that the disability already suffered is adequate in the circumstances of the case or for any other reason.
  - (f) In case of shortage of vendor in a particular group, such holiday may also hurt the interest of BGL. In such cases, endeavor should be to pragmatically analyze the circumstances, try to reform the agency and may get a written commitment from the agency that its performance will improve.
- G. Wherever there is contradiction with respect to terms of ‘Integrity pact’ , GCC and ‘Procedure for action in case of Corrupt/Fraudulent/ Collusive/Coercive Practice’, the provisions of ‘Procedure for action in case of Corrupt/Fraudulent/ Collusive/Coercive Practice’ shall prevail.

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**APPENDIX-II**

**PROCEDURE FOR EVALUATION OF PERFORMANCE OF VENDORS/ SUPPLIERS/  
CONTRACTORS/ CONSULTANTS**

**3.0 GENERAL**

A system for evaluation of Vendors/ Suppliers/Contractors/ Consultants and their performance is a key process and important to support an effective purchasing & contracting function of an organization.

Performance of all participating Vendors/ Suppliers/Contractors/ Consultants need to be closely monitored to ensure timely receipt of supplies from a Vendor, completion of an assignment by a Consultant or complete execution of order by a contractor within scheduled completion period. For timely execution of projects and meeting the operation & maintenance requirement of operating plants, it is necessary to monitor the execution of order or contracts right from the award stage to completion stage and take corrective measures in time.

**4.0 OBJECTIVE**

The objective of Evaluation of Performance aims to recognize, and develop reliable Vendors/ Suppliers/Contractors/ Consultants so that they consistently meet or exceed expectations and requirements.

The purpose of this procedure is to put in place a system to monitor performance of Vendors/ Suppliers/Contractors/ Consultants so as to ensure timely completion of various projects, timely receipt of supplies including completion of works & services for operation and maintenance of operating plants and quality standards in all respects.

**3.0 METHODOLOGY**

**i) Preparation of Performance Rating Data Sheet**

Performance rating data Sheet for each and every Vendor/ Supplier/Contractor/Consultant for all orders/Contracts with a value of Rs. 50 Lakhs and above is recommended to be drawn up. Further, Performance rating data Sheet for orders/contracts of Vendor/Supplier/Contractor/ Consultant who are on watch list/holiday list/ banning list shall be prepared irrespective of order/ contract value. These data sheets are to be separately prepared for orders/ contracts related to Projects and O&M within 30 days after execution of Order/ Contract. Format, Parameters, Process, responsibility for preparation of Performance Rating Data Sheet are separately mentioned.

**ii) Measurement of Performance**

Based on the parameters defined in Data Sheet, Performance of concerned Vendor/ Supplier/Contractor/ Consultant would be computed and graded accordingly. The measurement of the performance of the Party would be its ability to achieve the minimum scoring of 60% points in the given parameters.

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iii) Initiation of Measures:  
 Depending upon the Grading of Performance, corrective measures would be initiated by taking up the matter with concerned Vendor/ Supplier/Contractor/ Consultant. Response of Vendor/ Supplier/Contractor/ Consultant would be considered before deciding further course of action.

iv) Implementation of Corrective Measures:  
 Based on the response of Vendor/ Supplier/Contractor/ Consultant, concerned HOD would recommend for continuation or discontinuation of such party from the business of BGL.

v) Orders/contracts placed on Proprietary/OEM basis for O&M will be evaluated and, if required, corrective action will be taken for improvement in future.

**6.0 EXCLUSIONS**

The following would be excluded from the scope of evaluation of performance of Vendors/ Suppliers/Contractors/ Consultants:

- i) Orders/Contracts below the value of Rs. 50 Lakhs if Vendor/ Supplier/Contractor/ Consultant is not on watch list/ holiday list/ banning list.
- ii) Orders for Misc./Administrative items/ Non stock Non valued items .

However, concerned HOD will continue to monitor such cases so as to minimize the impact on Projects/O&M plants due to non performance of Vendors/ Suppliers/Contractors/ Consultants in all such cases.

**7.0 PROCESS OF EVALUATION OF PERFORMANCE OF VENDORS/ SUPPLIERS/ CONTRACTORS/ CONSULTANTS**

**5.1 FOR PROJECTS**

- i) Evaluation of performance of Vendors/ Suppliers/Contractors/ Consultants in case of PROJECTS shall be done immediately with commissioning of any Project.
- ii) On commissioning of any Project, EIC (Engineer-in-charge)/ Project-in-charge shall prepare a Performance Rating Data Sheet (Format at Annexure-1) for all Orders and Contracts excluding cases under para 4.0
- iii) Depending upon the Performance Rating, following action need to be initiated by Engineer-in-charge/Project- in-charge:

Sl.No.	Performance Rating	Action
1	POOR	Seek explanation for Poor performance
2	FAIR	Seek explanation for Fair performance
3	GOOD	Letter to the concerned for improving performance in future
4	VERY GOOD	No further action

(Sign & Seal of Bidder)



**Tender for Procurement of Turbine Flow Meter (Custody Meter)  
and EVC at Mother Station to get 4-20 mA flow signal to automize  
Odorization Unit at Vijayawada GA  
Bid Document No: BGL/713/2025-26**

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- iv) Reply from concerned Vendor/ Supplier/Contractor/ Consultant shall be examined. In case of satisfactory reply, Performance Rating data Sheet to be closed with a letter to the concerned for improving performance in future.
- v) When no reply is received or reasons indicated are unsatisfactory, the following actions need to be taken:
- A) Where performance rating is “POOR” (as per Performance Rating carried out after execution of Order/ Contract and where no reply/ unsatisfactory reply is received from party against the letter seeking the explanation from Vendor/Supplier/Contractor/ Consultant along with sharing the performance rating)

Recommend such defaulting Vendor / Supplier / Contractor / Consultant for the following action:

1. Poor Performance on account of Quality (if marks obtained against Quality parameter is less than 20):
  - (a) First Instance: **Holiday (Red Card) for One Years**
  - (b) Subsequent instance (s) in other ongoing order (s)/ contract (s) or new order (s) /contact (s) on such Vendor/ Supplier/ Contractor/ Consultant: **Holiday (Red Card) for Two Years**
2. Poor Performance on account of other than Quality (if marks obtained against Quality parameter is more than 20):
  - (a) First such instance: **Advisory notice (Yellow Card)** shall be issued and Vendor/Supplier/Contractor/ Consultant shall be **put on watch list for a period of Two (2) Years.**
  - (b) Second such instance in other ongoing order (s)/ contract (s) or new order (s) /contact (s) on such Vendor/ Supplier/ Contractor/ Consultant: **Putting on Holiday (Red Card) for a period of One Year**
  - (c) Subsequent instances (more than two) in other ongoing order (s)/ contract (s) or new order(s) /contact (s) on such Vendor/ Supplier/ Contractor/ Consultant: **Putting on Holiday (Red Card) for a period of Two Years.**
- B. Where Poor/Non-Performance leading to termination of contract or Offloading of contract due to poor performance attributable to Vendor/Supplier/ Contractor/Consultant (under clause no. 32 (C) of GCC- Works, Clause no. 28.3.1 of GCC-Goods, second para of Clause no. 2.17.3 of GCC-Services and Clause no.3.16.1 of GCC- Consultancy)
  - (a) First instance: **Advisory notice (Yellow Card)** shall be issued and Vendor/Supplier/Contractor /Consultant shall be put on watch list for a period of Two (2) Years.

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Further such vendor will not be allowed to participate in the re-tender of the same supply/work/services of that location which has terminated / offloaded. Moreover, it will be ensured that all other action as per provision of contract including forfeiture of Contract Performance Security (CPS) etc. are undertaken.

However, such vendor will be allowed to participate in all other tenders and to execute other ongoing order/ contract (s) or new contract/ order (s).

The Yellow card will be automatically revoked after a period of three years unless the same is converted into Red Card due to subsequence instances of poor/ non-performance in other ongoing order (s)/ contract (s) or new order (s) /contact (s) on such Vendor/ Supplier/ Contractor/ Consultant.

(b) Second instances in other ongoing order (s)/ contract (s) or new order (s) /contact (s) on such Vendor/ Supplier/ Contractor/ Consultant: **Holiday (Red Card) for period of One Year and they shall also to be considered for Suspension.**

(c) Subsequent instances (more than two) in other ongoing order (s)/ contract (s) or new order (s) /contact (s) on such Vendor/ Supplier/ Contractor/ Consultant: **Holiday (Red Card) for period of Two Years and they shall also to be considered for Suspension.**

C. Where Performance rating is "FAIR":

Recommend for issuance of warning to such defaulting Vendor/ Supplier/Contractor/ Consultant to improve their performance.

5.2 Deleted

5.3 FOR OPERATION & MAINTENANCE

- i) Evaluation of performance of Vendors/ Suppliers/Contractors/ Consultants in case of Operation and Maintenance shall be done immediately after execution of order/ contract.
- ii) After execution of orders a Performance Rating Data Sheet (Format at Annexure-2) shall be prepared for Orders by Site C&P and for Contracts/Services by respective Engineer-In-Charge.
- iii) Depending upon Performance Rating, following action shall be initiated by EIC:

Sl. No.	Performance Rating	Action
1	<b>POOR</b>	Seek explanation for Poor performance
2.	<b>FAIR</b>	Seek explanation for Fair performance

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3	<b>GOOD</b>	Letter to the concerned for improving performance in future.
4	<b>VERY GOOD</b>	No further action

iv) Reply from concerned Vendor/ Supplier/Contractor/ Consultant shall be examined. In case of satisfactory reply, Performance Rating data Sheet to be closed with a letter to the concerned for improving performance in future.

v) When no reply is received or reasons indicated are unsatisfactory, the following actions need to be taken:

A) Where performance rating is “POOR” (as per Performance Rating carried out after execution of Order/ Contract and where no reply/ unsatisfactory reply is received from party against the letter seeking the explanation from Vendor/Supplier/Contractor/ Consultant along with sharing the performance rating)

Recommend such defaulting Vendor / Supplier / Contractor / Consultant for the following action:

3. Poor Performance on account of Quality (if marks obtained against Quality parameter is less than 20):

(c) First Instance: **Holiday (Red Card) for One Year**

(d) Subsequent instance (s) in other ongoing order (s)/ contract (s) or new order (s) /contact (s) on such Vendor/ Supplier/ Contractor/ Consultant: **Holiday (Red Card) for Two Years**

4. Poor Performance on account of other than Quality (if marks obtained against Quality parameter is more than 20):

(d) First such instance: **Advisory notice (Yellow Card)** shall be issued and Vendor/Supplier/Contractor/ Consultant shall be **put on watch list for a period of Two (2) Years.**

(e) Second such instance in other ongoing order (s)/ contract (s) or new order (s) /contact (s) on such Vendor/ Supplier/ Contractor/ Consultant: **Putting on Holiday (Red Card) for a period of One Year**

(f) Subsequent instances (more than two) in other ongoing order (s)/ contract (s) or new order (s) /contact (s) on such Vendor/ Supplier/ Contractor/ Consultant: **Putting on Holiday (Red Card) for a period of Two Years.**

B) Where Poor/Non-Performance leading to termination of contract or Offloading of contract due to poor performance attributable to Vendor/Supplier/Contractor/Consultant (under Clause no. 28.3.1 of GCC-Goods)

- (d) First instance: **Advisory notice (Yellow Card)** shall be issued and Vendor/Supplier/Contractor /Consultant shall be **put on watch list for a period of Two (2) Years.**

Further such vendor will not be allowed to participate in the re-tender of the same supply/work/services of that location which has terminated / offloaded. Moreover, it will be ensured that all other action as per provision of contract including forfeiture of Contract Performance Security (CPS) etc. are undertaken.

However, such vendor will be allowed to participate in all other tenders and to execute other ongoing order/ contract (s) or new contract/ order (s).

The Yellow card will be automatically revoked after a period of two years unless the same is converted into Red Card due to subsequence instances of poor/ non-performance in other ongoing order (s)/ contract (s) or new order (s) /contact (s) on such Vendor/ Supplier/ Contractor/ Consultant.

- (e) Second instances in other ongoing order (s)/ contract (s) or new order (s) /contact (s) on such Vendor/ Supplier/ Contractor/ Consultant: **Holiday (Red Card) for period of One Year** and they shall also to be **considered for Suspension.**

- (f) Subsequent instances (more than two) in other ongoing order (s)/ contract (s) or new order (s) /contact (s) on such Vendor/ Supplier/ Contractor/ Consultant: **Holiday (Red Card) for period of Two Years** and they shall also to be considered for Suspension.

(C) Where Performance rating is “FAIR”

Issuance of warning to such defaulting Vendors/Contractors/Consultants to improve their performance.

6.0 **REVIEW & RESTORATION OF PARITES PUT ON HOLIDAY**

- 6.1 An order for Holiday passed for a certain specified period shall deemed to have been automatically revoked on the expiry of that specified period and it will not be necessary to issue a specific formal order of revocation.

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Further, in case Vendor/ Supplier/Contractor/ Consultant is put on holiday due to quality, and new order is placed on bidder after restoration of Vendor/ Supplier/Contractor/ Consultant, such order will be properly monitored during execution stage by the concerned site.

## **7.0 EFFECT OF HOLIDAY**

7.1 If a Vendor/ Supplier/Contractor/ Consultant is put on Holiday, such Vendor/ Supplier/Contractor/ Consultant shall not be considered in ongoing tenders/future tenders.

7.2 However, if such Vendor/ Supplier/Contractor/ Consultant is already executing any other order/ contract and their performance is satisfactory in terms of the relevant contract, should be allowed to continue till its completion without any further increase in scope except those incidental to original scope mentioned in the contract. In such a case CPBG will not be forfeited and payment will be made as per provisions of concerned contract. However, this would be without prejudice to other terms and conditions of the contract.

7.3. Effect on other ongoing tendering:

7.3.1 after issue of the enquiry /bid/tender but before opening of Technical bid, the bid submitted by the party shall be ignored.

7.3.2 after opening Technical bid but before opening the Price bid, the Price bid of the party shall not be opened and BG/EMD submitted by the party shall be returned to the party.

7.3.3 after opening of price, BG/EMD made by the party shall be returned; the offer of the party shall be ignored & will not be further evaluated. In case such agency is lowest (L-1), next lowest bidder shall be considered as L-1.

8.0 While putting the Vendor/ Supplier/Contractor/ Consultant on holiday as per the procedure, the holding company, subsidiary, joint venture, sister concerns, group division of the errant Vendor/ Supplier/Contractor/ Consultant shall not be considered for putting on holiday list.

Any bidder, put on holiday, will not be allowed to bid through consortium route also in new tender during the period of holiday.

9.0 If an unsuccessful bidder makes any vexatious, frivolous or malicious complaint against the tender process with the intention of delaying or defeating any procurement or causing loss to BGL or any other bidder, such bidder will be put on holiday for a period of six months, if such complaint is proved to be vexatious, frivolous or malicious, after following the due procedure.

## **10. APPEAL AGAINST THE DECISION OF THE COMPETENT AUTHORITY:**

(Sign & Seal of Bidder)

- (d) The party may file an appeal against the order of the Competent Authority for putting the party on Holiday list. The appeal shall be filed to Appellate Authority. Such an appeal shall be preferred within one month from the of receipt of Holiday order.
- (e) Appellate Authority would consider the appeal and pass appropriate order which shall be communicated to the party as well as the Competent Authority.
- (f) Appeal process may be completed within 45 days of filing of appeal with the Appellate Authority.
- (d) “Appellate Authority” shall mean Committee of Managing Director, BGL & Director (Commercial), BGL

11. **ERRANT BIDDER**

In case after price bid opening the lowest evaluated bidder (L1) is not awarded the job for any mistake committed by him in bidding or withdrawal of bid or modification of bid or varying any term in regard thereof leading to re-tendering, BGL shall forfeit EMD if paid by the bidder and such bidders shall be debarred from participation in retendering of the same job(s)/item(s).

Further, such bidder will be put on Watch List (Yellow Card) for a period of two years after following the due procedure. However, during the period in watch list such vendor will be allowed to participate in all other tenders and to execute other ongoing order/ contract (s) or new contract/ order (s).

In case of subsequent instances of default in other tender(s) during aforesaid watch list period, the action shall be initiated as per provision of sl. no. 2 of para A of Clause no. 5.1 (v) and 5.3 (v).

The Yellow card will be automatically revoked after specified period unless the same is converted into Red Card.

12. In case CBIC (Central Board of Indirect Taxes and Customs)/ any tax authority / any equivalent government agency brings to the notice of BGL that the Supplier has not remitted the amount towards GST (CGST & SGST/UTGST or IGST) collected from BGL to the government exchequer, then, that Supplier shall be put under Holiday list of BGL for period of six months after following the due procedure. This action will be in addition to the right of recovery of financial implication arising on BGL.



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**Annexure-1**

**BHAGYANAGAR GAS LIMITED  
PERFORMANCE RATING DATA SHEET [PRDS]  
(FOR PROJECTS/ CONSULTANCY JOBS)**

- i) Project/Work Centre :
- ii) Order/ Contract No. & date :
- iii) Brief description of Items  
Works/Assignment :
- iv) Order/Contract value (Rs.) :
- v) Name of Vendor/Supplier/  
Contractor/ Consultant :
- vi) Contracted delivery/  
Completion Schedule :
- vii) Actual delivery/  
Completion date :

Performance Parameter	Delivery/ Completion Performance	Quality Performance	Reliability Performance#	Total
Maximum Marks	40	40	20	100
Marks Allocated				

Note:  
Remarks (if any)

PERFORMANCE RATING (\*\*)

Note:  
(#) Vendor/Supplier/Contractor/Consultant who seek repeated financial assistance or deviation beyond contract payment term or seeking direct payment to the sub-vendor/ sub-contractor due to financial constraints, then '0' marks should be allotted against Reliability Performance.

(\*) Allocation of marks should be as per enclosed instructions

(\*\*) Performance rating shall be classified as under:

(Sign & Seal of Bidder)



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Sl. No.	Range (Marks)	Rating
1	60 & below	POOR
2	61-75	FAIR
3	76-90	GOOD
4	More than 90	VERY GOOD

Signature of  
Authorised Signatory:

Name:

Designation:

**INSTRUCTIONS FOR ALLOCATION OF MARKS**

1. Marks are to be allocated as under:

**1.1 DELIVERY/ COMPLETION PERFORMANCE 40 Marks**

<b>Delivery Period/ Completion Schedule</b>	<b>Delay in Weeks</b>	<b>Marks</b>
---	-----------------------	--------------

(Sign & Seal of Bidder)

a) Upto 3 months	Before CDD	40
	Delay upto 4 weeks	35
	” 8 weeks	30
	” 10 weeks	25
	” 12 weeks	20
	” 16 weeks	15
	More than 16 weeks	0
b) Above 3 months	Before CDD	40
	Delay upto 4 weeks	35
	” 8 weeks	30
	” 10 weeks	25
	” 16 weeks	20
	” 20 weeks	15
	” 24 weeks	10
	More than 24 weeks	0

**1.2 QUALITY PERFORMANCE**

**40 Marks**

For Normal Cases: No Defects/ No Deviation/ No failure: 40 marks

i) Rejection/Defects	Marks to be allocated on prorata basis for acceptable quantity as compared to total quantity for normal cases	10 marks
ii) When quality failure endanger system integration and safety of the system marks	Failure of severe nature - Moderate nature - low severe nature	0 marks 5 marks 10-25
iii) Number of deviations	1. No deviation 2. No. of deviations $\leq 2$ 3. No. of deviations $> 2$	5 marks 2 marks 0 marks

**1.3 RELIABILITY PERFORMANCE**

**20 Marks**

(Sign & Seal of Bidder)

<b>A.</b>	<b>FOR WORKS / CONTRACTS</b>	<b>Marks</b>
i)	Submission of order acceptance, agreement, CPS/PBG, Drawings and other documents within time	4 marks
ii)	Mobilization of resources as per Contract and in time	4 marks
iii)	Liquidation of Check-list points	4 marks
iv)	Compliance to statutory and HS&E requirements or Reliability of Estimates/Design/Drawing etc. in case of Consultancy jobs	4 marks
v)	Timely submission of estimates and other documents for Extra, Substituted & AHR items	4 marks
<b>B.</b>	<b>FOR SUPPLIES</b>	<b>Marks</b>
i)	Submission of order acceptance, CPS/PBG, Drawings and other documents within time	5 marks
ii)	Attending complaints and requests for after sales service/ warranty repairs and/ or query/ advice (upto the evaluation period).	5 marks
iii)	Response to various correspondence and conformance to standards like ISO	5 marks
iv)	Submission of all required documents including Test Certificates at the time of supply	5 marks

(Sign & Seal of Bidder)



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**Annexure-2**

**BHAGYANAGAR GAS LIMITED  
PERFORMANCE RATING DATA SHEET [PRDS]  
(FOR O&M)**

- i) Location :  
ii) Order/ Contract No. & date :  
iii) Brief description of Items :  
Works/Assignment  
iv) Order/Contract value (Rs.) :  
v) Name of Vendor/Supplier/ :  
Contractor/ Consultant  
vi) Contracted delivery/ :  
Completion Schedule  
vii) Actual delivery/ :  
Completion date

Performance Parameter	Delivery Performance	Quality Performance	Reliability Performance#	Total
Maximum Marks	40	40	20	100
Marks Allocated (*)				

Remarks (if any)

PERFORMANCE RATING (\*\*)

Note:

- (#) Vendor/Supplier/Contractor/Consultant who seek repeated financial assistance or deviation beyond contract payment term or seeking direct payment to the sub-vendor/sub-contractor due to financial constraints, then '0' marks should be allotted against Reliability Performance  
(\* ) Allocation of marks should be as per enclosed instructions  
(\*\*) Performance rating shall be classified as under:

Sl. No.	Range (Marks)	Rating
1	60 & below	POOR
2	61-75	FAIR
3	76-90	GOOD
4	More than 90	VERY GOOD

Signature of  
Authorised Signatory:

Name:

Designation:

(Sign & Seal of Bidder)

**INSTRUCTIONS FOR ALLOCATION OF MARKS (FOR O&M)**

1. Marks are to be allocated as under:

**1.1 DELIVERY/ COMPLETION PERFORMANCE 40 Marks**

Delivery Period/ Completion Schedule	Delay in Weeks	Marks
a) Upto 3 months	Before CDD	40
	Delay upto 4 weeks	35
	” 8 weeks	30
	” 10 weeks	25
	” 12 weeks	20
	” 16 weeks	15
	More than 16 weeks	0
	b) Above 3 months	Before CDD
Delay upto 4 weeks		35
” 8 weeks		30
” 10 weeks		25
” 16 weeks		20
” 20 weeks		15
” 24 weeks		10
More than 24 weeks		0

**1.2 QUALITY PERFORMANCE 40 Marks**

For Normal Cases: No Defects/ No Deviation/ No failure: 40 marks

i) Rejection/Defects	Marks to be allocated on prorata basis for acceptable quantity as compared to total quantity for normal cases	10 marks
ii) When quality failure endanger system integration and safety of the system	Failure of severe nature	0 marks
	- Moderate nature	5 marks
	- low severe nature	10-25
iii) Number of deviations	1. No deviation	5 marks
	2. No. of deviations $\leq 2$	2 marks
	3. No. of deviations $> 2$	0 marks

(Sign & Seal of Bidder)

**1.3 RELIABILITY PERFORMANCE**

**20 Mark**

<b>A.</b>	<b>FOR WORKS/CONTRACTS</b>	<b>Marks</b>
i)	Submission of order acceptance, agreement, CPS/PBG, Drawings and other documents within time	4 marks
ii)	Mobilization of resources as per Contract and in time	4 marks
iii)	Liquidation of Check-list points	4 marks
iv)	Compliance to statutory and HS&E requirements or Reliability of Estimates/Design/Drawing etc. in case of Consultancy jobs	4 marks
v)	Timely submission of estimates and other documents for Extra, Substituted & AHR items	4 marks
<b>B.</b>	<b>FOR SUPPLIES</b>	<b>Marks</b>
i)	Submission of order acceptance, CPS/PBG, Drawings and other documents within time	5 marks
ii)	Attending complaints and requests for after sales service/ warranty repairs and/ or query/ advice (upto the evaluation period).	5 marks
iii)	Response to various correspondence and conformance to standards like ISO	5 marks
iv)	Submission of all required documents including Test Certificates at the time of supply	5 marks

(Sign & Seal of Bidder)



**Tender for Procurement of Turbine Flow Meter (Custody Meter)  
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**PROFORMA OF "BANK GUARANTEE" FOR "CONTRACT PERFORMANCE  
SECURITY / SECURITY DEPOSIT"  
(ON NON-JUDICIAL STAMP PAPER OF APPROPRIATE VALUE)**

To, M/s Bhagyanagar Gas Limited  _____	<b>Bank Guarantee No.</b>	
	<b>Date of BG</b>	
	<b>BG Valid up to (Expiry date)</b>	
	<b>Claim period up to (There should be three months gap between expiry date of BG &amp; Claim period)</b>	
	<b>Stamp Sl. No./e-Stamp Certificate No.</b>	

**Dear Sir(s),**

M/s. \_\_\_\_\_ having registered office at \_\_\_\_\_ (herein after called the "contractor/supplier/consultant" which expression shall wherever the context so require include its successors and assignees) have been placed/ awarded the job/work of \_\_\_\_\_ vide PO/LOA /FOA No. \_\_\_\_\_ dated for Bhagyanagar Gas Limited having Registered office: 2<sup>nd</sup> Floor, Parishram Bhavan, TSIDC Building, Basheerbagh, Hyderabad 500004 (herein after called the "BGL" which expression shall wherever the context so require include its successors and assignees).

The Contract conditions provide that the Supplier/Contractor/Consultant shall pay a sum of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) as full Contract Performance Guarantee in the form therein mentioned. The form of payment of Contract Performance Guarantee includes guarantee executed by Nationalized Bank/Scheduled Commercial Bank, undertaking full responsibility to indemnify BHAGYANAGAR GAS LIMITED, in case of default.

The said M/s. \_\_\_\_\_ has approached us and at their request and in consideration of the premises we having our office at \_\_\_\_\_ have agreed to give such guarantee as hereinafter mentioned.

1. We \_\_\_\_\_ and having net worth more than Rs. 100,00,00,000.00 [Rupees One Hundred Crores] or its equivalent in foreign currency, hereby undertake to give the irrevocable & unconditional guarantee to you that if default shall be made by M/s \_\_\_\_\_ in performing any of the terms and conditions of the tender/order/contract or in payment of any money payable to BHAGYANAGAR GAS LIMITED we shall on first demand pay without demur, contest, protest and/ or without any recourse to the contractor to BGL in such manner as BGL may direct the said amount of Rupees

(Sign & Seal of Bidder)



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\_\_\_\_\_ only or such portion thereof not exceeding the said sum as you may require from time to time.

2. You will have the full liberty without reference to us and without affecting this guarantee, postpone for any time or from time to time the exercise of any of the powers and rights conferred on you under the order/contract with the said \_\_\_\_\_ M/s. \_\_\_\_\_ and to enforce or to forbear from endorsing any powers or rights or by reason of time being given to the said M/s. \_\_\_\_\_ and such postponement forbearance would not have the effect of releasing the bank from its obligation under this debt.
3. Your right to recover the said sum of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) from us in manner aforesaid is absolute & unequivocal and will not be affected or suspended by reason of the fact that any dispute or disputes have been raised by the said M/s. \_\_\_\_\_ and/or that any dispute or disputes are pending before any officer, tribunal or court or arbitrator or any other authority/forum and any demand made by you in the bank shall be conclusive and binding. The bank shall not be released of its obligations under these presents by any exercise by you of its liberty with reference to matter aforesaid or any of their or by reason or any other act of omission or commission on your part or any other indulgence shown by you or by any other matter or changed what so ever which under law would, but for this provision, have the effect of releasing the bank.
4. The guarantee herein contained shall not be determined or affected by the liquidation or winding up dissolution or changes of constitution or insolvency of the said Supplier/Contractor/Consultant but shall in all respects and for all purposes be binding and operative until payment of all money due to you in respect of such liabilities is paid.
5. The bank undertakes not to revoke this guarantee during its currency without your previous consent and further agrees that the guarantee shall continue to be enforceable until it is discharged by BGL in writing. However, if for any reason, the Supplier/Contractor/Consultant is unable to complete the supply/work within the period stipulated in the order/contract and in case of extension of the date of delivery/completion resulting extension of defect liability period/guarantee period of the Supplier/Contractor/Consultant fails to perform the supply/work fully, the bank hereby agrees to further extend this guarantee at the instance of the Supplier/Contractor/Consultant till such time as may be determined by BGL. If any further extension of this guarantee is required, the same shall be extended to such required period on receiving instruction from M/s. \_\_\_\_\_ (Supplier/Contractor/ Consultant ) on whose behalf this guarantee is issued.
6. Bank also agrees that BGL at its option shall be entitled to enforce this Guarantee against the bank (as principal debtor) in the first instant, without proceeding against the Supplier/Contractor/Consultant and notwithstanding any security or other guarantee that BGL may have in relation to the Supplier's/Contractor's/Consultant's liabilities.
7. The amount under the Bank Guarantee is payable forthwith without any delay by Bank upon the written demand raised by BGL. Any dispute arising out of or in relation to the said Bank Guarantee shall be subject to the exclusive jurisdiction of courts at Hyderabad Telanaga.
8. Therefore, we hereby affirm that we are guarantors and responsible to you on behalf of the Supplier/Contractor/Consultant up to a total amount of \_\_\_\_\_ (amount of guarantees in words and figures) and we undertake to pay you, upon your first written demand declaring the Supplier/Contractor/Consultant to be in default under the order/contract and without caveat or

(Sign & Seal of Bidder)



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argument, any sum or sums within the limits of (amounts of guarantee) as aforesaid, without your needing to prove or show grounds or reasons for your demand or the sum specified therein.

9. The Bank doth hereby declare that Shri /Ms. \_\_\_\_\_ who is the \_\_\_\_\_ (designation) of the Bank is authorized to sign this undertaking on behalf of the Bank and to bind the Bank thereby.
11. Notwithstanding anything contained herein:
- d) The Bank's liability under this Guarantee shall not exceed (currency in figures) . . . . . (currency in words only) . . . . .
- e) This Guarantee shall remain in force upto \_\_\_\_\_ (this date should be expiry date of defect liability period of the Contract) and any extension(s) thereof; and
- f) The Bank shall be released and discharged from all liability under this Guarantee unless a written claim or demand is issued to the Bank on or before the midnight of .....(indicate date of expiry of claim period which includes minimum three months from the expiry of this Bank Guarantee) and if extended, the date of expiry of the last extension of this Guarantee. If a claim has been received by us within the said date, all the rights of BGL under this Guarantee shall be valid and shall not cease until we have satisfied that claim.

Details of next Higher Authority of the Officials who have issued the Bank Guarantee:

Name .....  
Designation .....

Yours faithfully,

\_\_\_\_\_  
Bank by its Constituted Attorney

Signature of a person duly  
Authorized to sign on behalf of the  
Bank

**Confirmation Email Id :**

**IFSC Code of Issuing Bank :**

(Sign & Seal of Bidder)



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INSTRUCTIONS FOR FURNISHING  
"CONTRACT PERFORMANCE SECURITY / SECURITY DEPOSIT" BY "BANK  
GUARANTEE"

1. The Bank Guarantee by successful Bidder(s) will be given on non-judicial stamp paper as per 'stamp duty' applicable. The non-judicial stamp paper should be in name of the issuing bank.
2. The Bank Guarantee by Bidders will be given from bank as specified in cl.no. 38.2 of ITB [Section-III] of Tender Document.
3. A letter from the issuing bank of the requisite Bank Guarantee confirming that said Bank Guarantee and all future communication relating to the Bank Guarantee shall be forwarded to Purchaser.
4. Supplier/Contractor/Consultant shall submit attached cover letter (Annexure) while submitting Contract Performance Security / Security Deposit.
5. In case BG is issued directly by a bank outside India (if allowed), it should be executed on Letter Head of the Bank and should be advised and made payable through their Indian Branch/Corresponding Bank in India (Applicable for ICB tender).

MATTER TO BE MENTIONED IN COVERING LETTER TO BE SUBMITTED  
BY VENDOR ALONG WITH BANK GUARANTEE

1	<b>BANK GUARANTEE NO</b>	:				
2	<b>VENDOR NAME / VENDOR CODE</b>	:	<b>NAME</b>			
			<b>VENDOR CODE</b>			
3	<b>BANK GUARANTEE AMOUNT</b>	:				
4	<b>PURCHASE ORDER/ LOA NO</b>	:				
5	<b>NATURE OF BANK GUARANTEE</b>	:				
	<b>(Please Tick (√) Whichever is Applicable</b>		PERFORMANCE BANK GUARANTEE	SECURITY DEPOSIT	EMD	ADVANCE
6	<b>BG ISSUED BANK DETAILS</b>	(A)	<b>EMAIL ID</b>	:		
		(B)	<b>ADDRESS</b>	:		
		(C)	<b>PHONE NO</b>	:		

(Sign & Seal of Bidder)



BHAGYANAGAR  
GAS LIMITED

**Tender for Procurement of Turbine Flow Meter (Custody  
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Bhagyanagar Gas Ltd.

# **BHAGYANAGAR GAS LIMITED**

(A JOINT VENTURE OF HPCL & GAIL)

## **BID DOCUMENT FOR**

**Tender for Procurement of Turbine Flow Meter (Custody Meter)  
and EVC at Mother Station to get 4-20 mA flow signal to automize  
Odorization Unit at Vijayawada GA**



BHAGYANAGAR  
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**SECTION-8 SPECIAL CONDITIONS OF CONTRACT (SCC)**

**SECTION-9 SCOPE OF WORK & TECHNICAL SPECIFICATION**

**SECTION-10 SCHEDULE OF RATES (SOR)**



BHAGYANAGAR  
GAS LIMITED

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**SECTION: 7**

**MATERIAL REQUISITION**



BHAGYANAGAR  
GAS LIMITED

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**MATERIAL REQUISITION**

**Project:** Procurement of Turbine Flow Meter (Custody Meter) and EVC at Mother Station to get 4-20 m A flow signal to automate Odorization Unit at Vijayawada GA

**Client:** M/s. Bhagyanagar Gas Limited

**Items:** Turbine Flow Meter and EVC

Sl. No.	Description	Type	UOM	Qty.	
A	A1	Design, Engineering, Supply, Supervision during installation and commissioning of Turbine Flow Meter along with Meter Run Spool Pieces (Upstream & Downstream) <b>TFM 6 Inch (DN150), 300#, G400 AGA-7 based</b> Meter Tube, RTD, PT, Thermowell and other Field Instrumentation with accessories including Wet Calibration as per enclosed specification	Custody Transfer Type 6Inch (DN150), 300#, G400	No's	1
	A2	Supply of Electronic Volume Corrector for High Pressure Pipeline (0-49 Bar Operating Pressure) (Requirement: Flow rate signal:4-20mA) with stand/support and all required cables, sensors and accessories to connect and integrate with supplied TFM as per enclosed specification	With Modem, LF & HF Pulse Outputs	No's	1
B	B1	Deputing Service Engineer for Commissioning Assistance and on Call Visit for Maintenance	-	Man days	2



BHAGYANAGAR  
GAS LIMITED

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**SECTION: 8**  
**SPECIAL CONDITIONS OF CONTRACT (SCC)**



BHAGYANAGAR  
GAS LIMITED

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**1. GENERAL**

- 1.1 Special Conditions of Contract shall be read in Conjunction with the General Conditions of Contract, Specification of work, Drawing and any other documents forming part of this Contract wherever the context so requires.
- 1.2 Notwithstanding the sub-division of the documents into these separate sections and volumes every part of each shall be deemed to be supplementary to and complementary of every other part and shall be read with in the Contract so far as it may be practicable to do so.
- 1.3 Where any portion of the General Conditions of Contract is repugnant to or at variance with any provisions of the Special Conditions of Contract, unless a different intention appears, the provisions of the Special Conditions of Contract shall be deemed to over-ride the provisions of the General Conditions of Contract and shall be the extent of such repugnancy, or variations, prevail.
- 1.4 Wherever it is mentioned in the specification that the Contractor shall perform certain work or provide certain facilities, it is understood that the Contractor shall do so at his cost and the **Value of Contract** shall be deemed to have included cost of such performance and provisions, so mentioned.
- 1.5 The materials, design, and workmanship shall satisfy the relevant Indian Standard, the Job Specifications contained herein and Codes referred to where the job specification stipulate requirements in addition to those contained in the standard codes and specifications, these additional requirements shall also be satisfied.
- 1.6 In case of an irreconcilable conflict between Indian or other applicable standards, General Conditions of Contract, Special Conditions of Contract, Specification, Drawings or Schedule of Rates, the following shall prevail to the extent of such irreconcilable conflict in order of precedence:
  - i) Letter of Acceptance/ FOI along with Statement of Agreed Variations.
  - ii) Schedule of Rates as enclosures to Letter of Acceptance
  - iii) Special Conditions of Contract
  - iv) Drawings
  - v) Technical/ Material Specifications
  - vi) Instruction to Bidder
  - vii) General Conditions of Contract
  - viii) Indian Standards
  - ix) Other applicable standards
- 1.7 It will be the Contractor's responsibility to bring to the notice of Engineer-in-charge any irreconcilable conflict in the contract documents before starting the work(s) or making the supply with reference which the conflict exists.



**Tender for Procurement of Turbine Flow Meter (Custody Meter) and EVC at Mother Station to get 4-20 mA flow signal to automatize Odorization Unit at Vijayawada GA**  
**Bid Document No. BGL/713/2025-26**

- 1.8 In the absence of any Specifications covering any material, design of work(s) the same shall be performed/ supplies/ executed in accordance with Standard Engineering Practice as per the instructions/ directions of the Engineer-in-charge, which will be binding on the Contractor.
- 1.9 The Bidder shall Supply the Turbine Flow Meter with EVC only from the approved list of Manufacturers/Make.
- 2.0 Weight and Measurement India Certificates, Compliance with OIML 137, EN 12261: 2024 or latest and other relevant certificates must be submitted as per standard of Dept of Legal metrology standard, of Indian Government. PESO/ATEX Certifications for EVC with Modem or other relevant standards.

## **2.0 SCOPE OF SUPPLY**

The Scope of SUPPLY shall be as set out at Material Requisition, Data Sheets and Technical Specifications given in Volume-II of tender document and supplemented by all stipulation in the total tender document.

Seller's scope shall include

- (a) Manufacturing of mentioned items as per Material Requisition technical specifications;
- (b) Preparation of Quality Assurance / Quality control programme;
- (c) Obtaining Owner's approval;
- (d) Arranging Inspection and Testing certification;
- (e) Arranging the 6-Point Wet Calibration in NABL Approved Lab.
- (f) Inspection and obtaining Inspection Release Note;
- (g) Obtaining dispatch clearance;
- (h) Packing;
- (i) Transit Insurance, loading on truck/trailer including loading and unloading of materials/ spare kits at Bhagyanagar Gas Limited store/site.

## **3.0 CONTRACT PRICE**

The contract price shall be deemed to be firm and valid for the entire duration of the contract till the completion of work, and shall not be subject to any adjustment due to increase in price of materials, utilities, or any other input for performance of work and the contract except for increase/decrease in taxes and duties on account of subsequent legislation.

## **4.0 DIVISION OF ORDER**

BGL reserves the right to divide the quantity among more than one bidder at its sole discretion and as mentioned in BEC of Vol I of II.

## **5.0 QUALITY ASSURANCE/QUALITY CONTROL:**

- 5.1. The Contractor shall "prepare a detailed quality assurance plan for the execution of Contract for various facilities, which will be mutually discussed and agreed to.
- 5.2. The Contractor shall establish document and maintain an effective quality assurance system outlined in recognized codes.
- 5.3. The Purchaser while agreeing to a quality assurance plan shall mark the stages where they would like to witness the tests; review any or all stages of work at shop/site as deemed necessary for quality assurance.



## 6.0 QUANTITY VARIATION

The tendered quantity may vary depending upon the project requirement. BGL reserves the right to decrease/ increase the quantity depending upon its requirement.

## 7.0 DISPATCH INSTRUCTIONS

7.1 Seller shall obtain dispatch clearance from the Purchaser prior to dispatch.

7.2. Copy of Inspection Release Certificate, Dispatch Clearance and statement showing the name of the Vessel/Trailers description and weight of material and shipping marks etc. to be submitted along with the documents.

## 8.0 INSPECTION

Final inspection of the materials shall only be done by TPIA approved by BGL. All the charges towards all kinds of tests/TPIA cost shall be included in the quoted rates per unit. No additional payment to this effect will be made. The charges towards BGL's Inspection Agency, if engaged, shall be borne by Vendor.

## 9.0 REJECTION

9.1. Any materials/goods covered under scope of supply, which during the process of inspection by appointed third party, at any stage of manufacture/fabrication, and subsequent stages, prior to dispatch is found not conforming to the requirements/specifications of the Purchase Requisition /Order, shall be liable for immediate rejection.

9.2. Supplier shall be responsible and liable for immediate replacement of such material with acceptable material at no extra cost or impact on the delivery schedule to EMPLOYER.

## 10.0 TERMS OF PAYMENTS

The Payment shall be made in the following manner subject to completion of all contractual requirements as per tender document.

**The following shall be read in conjunction with Clauses of GCC (Goods)**

- **85 % (Eighty percent) payment of shall be released upon receipt of material at BGL site and Acceptance by BGL, after adjustment of PRS, if any along with submission of following documents: -**

- i) Original Invoice in triplicate in compliance with GST law in force
- ii) Inspection Release note by Owner or his appointed or approved agency.
- iii) Original GR / LR
- iv) Packing List
- v) Insurance cover note covering transit insurance.
- vi) Performance Bank Guarantee (s) of 5% of Contract Value. If already submitted, a copy of the same.
- vii) Document related to Input Tax Credit (ITC) to be claimed by owner, if applicable.

**Remaining – 15%** payment shall be released on successful installation and commissioning activities of metering system in all aspects at all installations under BGL after submission of site acceptance test reports along with project documentation.



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**-For FINAL BILL, following documents are to be provided:**

- v) **No Claim & No due Certificate**
- vi) **Statement of Completion**

**ii. MODE OF PAYMENT**

All payments payable in Indian rupees against the contract shall be released by Owner through online/RTGS/NEFT.

**iii. DEDUCTION AT SOURCE**

Purchaser will release the payment to the Seller after effecting deductions as per applicable law in force. Purchaser will release payments by F&A Dept, BGL to the Contractor after offsetting all dues to the Purchaser payable by the Contractor under the Contract.

**11.0 COMPENSATION FOR DELAY (PRICE REDUCTION /LIQUIDATED DAMAGES)**

In case of delay in delivery of materials beyond contractually agreed delivery schedule, price reduction schedule will be applicable @0.5% of material value for the unsupplied portion per week of delay or part thereof, subject to ceiling of 5% (FIVE PERCENT) of the total order value. For details, please refer relevant clause of GCC-Goods.

The value referred in PRS clause is excluding taxes & duties.

**12.0 PERFORMANCE BANK GUARANTEE/ SECURITY DEPOSIT/CONTRACT PERFORMANCE SECURITY:**

Vendor shall submit SD / CPBG @ 10% of Contract/Order value within 30 days of award or Initial deposit of SD / CPBG @ 5% of Contract/Order value within 30 days of award and balance to be deducted against each RA bills till balance 5% is deducted/for supply, it is to be deducted from the invoice. This deducted amount can be released/deduction can be stopped against submission of bank guarantee of equivalent amount. The contract performance bank guarantee shall be valid 03(three) months beyond the expiry of Warrantee/Guarantee period. The Performance Guarantee shall be in form of either Demand Draft or Banker's Cheque or irrevocable Bank Guarantee and shall be in the currency of Contract (issued by any Indian Scheduled bank or a branch of an International Bank situated in India and registered with Reserve Bank of India as Scheduled Foreign Bank).

However, in case of Bank Guarantee from banks other than the Nationalized Indian bank, the bank must be a commercial bank having net worth in excess of Rs. 100 Crores or equivalent US Dollars and a declaration to this effect should be made by such commercial bank either in the bank guarantee itself or separately on its letterhead.

BGL shall not be liable to pay any bank charges, commission or interest on the same.

Failure of the successful bidder to comply with the requirement of this clause shall constitute a breach of contract, cause for annulment of the award, forfeiture of the bid security and any such remedy the Owner may take under the Contract pursuant to GCC-Goods.

There is no exemption to MSEs including SSI units from submission of Security Deposit/ Contract Performance Bank Guarantee (CPBG).

**13.0 REPEAT ORDER**

BGL reserves the right to place a repeat order within Six (06) months from date of purchase order on same rate, terms and conditions.



#### **14.0 DELIVERY**

The delivery of the items location wise is as per the Material Requisition.

The Vendor to arrange transportation of these materials from the vendor shop to designated locations of BGL yard in respective cities. No extra payment shall be made for the transportation and deemed to be included in the quoted price.

Bidder to deliver the materials at all locations as per the quantity estimated.

#### **15.0 DELIVERY SCHEDULE**

Delivery of the total order quantity will be completed **within 04 Months** for the supply of all materials as per SOR, from the date of receipt of LOA/FOA.

**\*For approval of design/scheme – 15 Days from the date of FOA**

**\*For supply of materials – Within 04 Months from the date of FOA**

**\*For Installation & Commissioning – Within 01 week time Upon intimation of EIC.**

#### **16.0 PACKING, MARKING AND SHIPMENT**

The Seller, wherever applicable shall after proper painting, pack and crate all goods for sea/air/road/rail transportation in a manner suitable to tropical humid climatic region in accordance with the internationally accepted practices and in such a manner so as to protect it from damage and deterioration, in transit by sea or air or road or rail and during storage at the storehouse. The Seller shall be held responsible for all damages due to improper packing. The Seller shall ensure sizing or packing of all oversized consignments in such a way that availability of carrier and/or road/rail route is properly taken into consideration.

For MARKING & PACKAGING of the Materials shall be As per Standards or Instructions by EIC. The approval needs to be taken from EIC for Marking & Packaging of Meter & EVC. Any damage during the loading/unloading & transportation will be the responsibility of vendor. Material needs to be replaced in case of any damage/defect found after receipt of materials as BGL Store/Site.

Seller shall comply with the Packing, Marking and Shipping Instructions and Special Packaging Requirement as per Vol I of II of this Bidding Document.

#### **17.0 INDEPENDENT SELLER**

It is expressly understood and agreed that Seller is an independent party and that neither the Seller/ its personnel are servants, agents or employees of Purchaser nor the Seller has any kind of interest in other sellers.

#### **18.0 LIEN**

Seller shall ensure that the Scope of Supply supplied under the Agreement shall be free from any claims of title/liens from any third party. In the event of such claims by any party, Seller shall at his own cost defend, indemnify and hold harmless Purchaser or its authorized representative from such disputes of title/liens, costs, consequences etc.

#### **19.0 LIMITATION OF LIABILITY**

Notwithstanding anything contrary contained herein, the aggregate total liability of Supplier under the Contract or otherwise shall be limited to 100% of contract value. However, neither party shall be liable to the other party for any indirect and consequential damages, loss of profits or loss of production.



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**20.0 GOVERNING LAW**

Laws of India will govern the Agreement and Hyderabad courts will have exclusive jurisdiction on all matters related to Agreement.

**21.0 OWNER'S RIGHTS AND REMEDIES**

Without prejudice to Owner's right and remedies under Agreement, if SUPPLIER fails to commence delivery as per agreed schedule and/or in reasonable opinion of the OWNER, CONTRACTOR is not in a position to make up the delay to meet the intended purpose, the OWNER may terminate the AGREEMENT in full or part at SUPPLIER's default and may get supplies from other sources at SUPPLIER's risk and cost.

**22.0 TRANSIT INSURANCE (Additional to Clause no. 16.0 of GCC)**

Bidder shall arrange Transit Insurance and the cost of which shall be borne by bidder. Quoted price shall be inclusive of the same.

**23.0 WARRANTY**

If any trouble or defect, originating with the design, material, workmanship or operating characteristics of any materials, arises at any time prior to expiry of twelve(12) months from the date of commissioning of the equipment or prior to expiry of twenty four (24) months from the date of last shipment (particular delivery LOT for Groups) whichever is earlier, first expire, and the SELLER is notified thereof, SELLER shall, at his own expense and as promptly as possible, make such alterations, repairs and replacements as may necessary to permit the materials to function in accordance with the specifications and to fulfill the foregoing guarantees.

**24.0 General Conditions:**

- (i) When the materials are dispatched to the consignee intimation must also be given to this effect. Reference to the supply order should invariably be given in all the relevant correspondence.
- (ii) The tender is liable to be rejected in case the tender does not comply with tender stipulations or the goods, works and services offered do not conform to the required specifications indicated there in.
- (iii) Any other terms and conditions offered by the firm and not included in the order/contract, are not acceptable to BGL.

**25.0 Location/Site Information:**

Location of site will be informed by BGL Engineer-In-Charge.



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## **SECTION – 9**

### **SCOPE OF WORK & TECHNICAL SPECIFICATION**



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**SCOPE OF WORK**

**Subject:** Design, Engineering, Supply, Supervision during installation & commissioning of Turbine Flow Meter along with Meter-Run Spool Pieces and EVC for Bhagyanagar Gas Limited, Vijayawada GA.

**1. Introduction**

The Scope of Work shall include Complete Design, Engineering, Supply, Supervision during installation and commissioning, Transportation, Loading and Unloading of Turbine Flow meter along with Meter-Run Spool Pieces.

The purpose of this specification is to define the job requirements for the Design, Engineering & Supply of Turbine Flow Meter along with Meter-Run Spool Pieces for Custody Transfer of Natural Gas as per AGA 7 latest and all relevant standards for Bhagyanagar Gas Limited, Vijayawada GA.

**In case of any discrepancy between standard specifications & job specifications as specified in the tender document. Job specification shall govern. However, bidder shall refer such discrepancies to purchasers for further clarification and only after obtaining the same, should proceed further. Moreover, bidders are advised to have a site visit before submitting the bid. non-familiarity with the site conditions will not be considered a reason either for extra claim or for any other term and condition of the contract.**

**2. Scope of Work:**

Before submitting the bids, vendor shall visit site and shall know the scope of supply and scope of work on as is where is basis of available systems. Thereafter vendor shall submit valid bids with complete documentation on e-tender. While quoting vendor shall consider tender in terms of technical as well commercial requirements. Once vendor has made site visit/understood the job quantum, it assumes that the job is clear to the vendor and after that no deviation would be acceptable by BGL.

S No.	Work Description	Vendor's Confirmation
2.1	Vendor shall be responsible for complete Design, Engineering, Supply, Supervision during installation & commissioning of the TFM with meter runs in line with the requirements of tender specifications and shall include other aspects which have not been envisaged here but are required to meet the system functionality and reliability in total.	
2.2	Vendor shall be responsible for integrating supplied TFM with EVC. BGL will extend necessary help from EVC Vendor or in-house support in case required. If any special Hardware including IS barrier required for integration shall be in the scope of bidder.	
2.3	TFM with meter runs are supplied with secondary measuring instruments such as Pressure transmitter and Temperature transmitter. With proper wiring, fittings. One spare Thermowell is to be provided with blind as per schematic.	
2.4	Vendor shall have to deliver the commissioning materials to site in good condition without any damages after Inspection at vendor's location. Vendor shall mobilize manpower to install and commission the TFM Meter at site.	



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2.5	Vendor shall ensure that right quality of cable glands (double compression, SS316, Flame proof glands of EIL approved manufacturer/supplier) are put on the cables everywhere and shall ensure IP rating of the installed instrument is maintained. Vendor shall supply necessary cables tray to be installed in skid.	
2.6	For schematic is placed in below, vendor shall refer the detailed material required and quote accordingly.	
2.7	In the absence of any specifications covering any material, design of work(s) the same shall be Performed /supplied/executed in accordance with Standard Engineering Practices as per the Instructions/directions of the Engineer -in-charge, which will be binding on the contractor.	



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Bhagyanagar Gas Limited-Vijayawada GA requires Turbine Flow Meter along with Meter-Run Spool Pieces. This is to be noted that materials to be supplied shall be duly approved by BGL. The complete BOQ (Bill of Quantities) along with make, model, quantity and certificates shall be submitted during the bid. The materials to be supplied shall include following as minimum, if any additional items are required to meet the overall specification bidder need to supply.

**3. Scope of Supply:**

Bidder's scope of supply and work shall include but not limited to the following to meet system requirements, technical specifications, and General requirement:

Design, Engineering, Supply, Supervision during installation and commissioning of new Turbine Flow Meter along with Meter-Run Spool Pieces at Bhagyanagar Gas Limited Vijayawada GA. Following are minimum BOQ of items required , vendor has to supply items which are not specifically mentioned below but required for the successful completion of job shall be in the scope of vendor.

**3.1 Bill of Quantity for BGL-Vijayawada GA:**

S/N	Description of Item	Qty.	UOM
1	Supply of Turbine Flow Meter (6-in, DN-150 G-400, 300#) in inbuilt Pressure & Temp. Tap along with Wet Calibration	1	EA
2	Supply of Electronic Volume Corrector for High Pressure Pipeline (0-49 Bar Operating Pressure) (Requirement: Flow rate signal:4-20mA) with stand/support and all required cables, sensors and accessories to connect and integrate with supplied TFM.	1	EA
3	Complete set of meter run consisting of Upstream & Downstream straight lengths, Flow straighteners with 19 tube bundle or profiler, flange welded at each end of pipe, pipe supports, Nuts, Studs/Bolts, Gaskets and copper jumpers etc. as per drawings.	1	EA
4	Smart Temperature Transmitter with cable and glands, 2" Stand for Mounting Transmitter and cable tray.	1	EA
5	Smart Pressure Transmitter with impulse instrument tube, fittings, valves & manifold (with vent-drain arrangement), with cable and glands, 2" Stand for Mounting Transmitter and cable tray.	1	EA
6	Thermo-Well along with RTD	1	EA
7	Spare Thermo-Well with Blind	1	EA
8	Rs 485 Cables for Integration With EVC	70	Meters
9	1P x 1.5 Sq.mm, Twisted Pair, shielded, FRLS	70	Meters
10	2P x 1.5 Sq.mm, Twisted Pair, shielded, FRLS	70	Meters
11	Ex proof JB 12 Terminal	1	EA
12	Required Barriers for integrating with analog signals & TFM Frequency input	1	LS

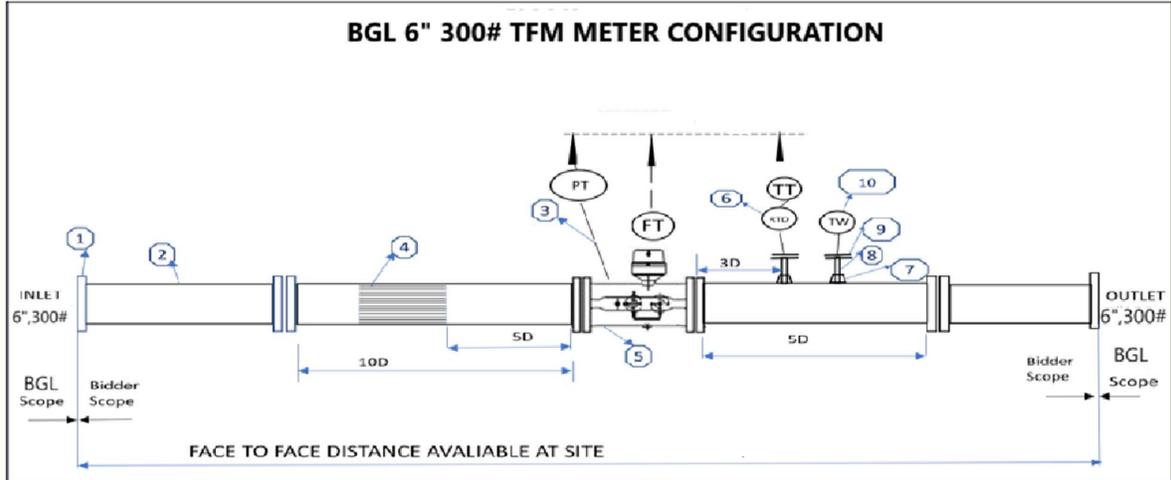


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**Schematic of BGL TFM Meter with Upstream/Downstream Spools**



Items Required per stream at BGL			
No of streams required- 1 Nos			
S.no	Description	Material	Quantity
1	Flange WNRF 6"300#	A105	8(Total for one stream)
2	Pipe 6" SCH 40	A 160 GR. B	As per requirement of length
3	Pressure Transmitter	As per specs	1
4	19 bundle Tube for Flow Conditioning	SS316	1
5	TFM DN150 G400 6" 300#	As per specs	1
6	RTD With Temperature Transmitter	As per specs	1
7	Sockolet 1.5"300#	A105	2
8	Pipe 1.5" SCH 80	A 160 GR. B	2
9	Flange SWRF 1.5" 300#	A105	2
10	thermowell	As per specs	2



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**4. Process Data**

Sl. No.	NAME OF SITE	Min Flow SCMD	AVG FLOW	Max Flow SCMD	Avg Temperature Deg C	Operating Pressure Kg/cm2	MAOP Kg/Cm2	METER SIZE&CLASS	TYPE OF METER & SIZE-G-RATING	Rangeability
1	BGL VJA	35000	60000	2,50,000	25-30	19-25	49	6 Inch, 300#	TFM, 6" G400	01:20

**4.1 Average Gas composition**

Name of Component	N2	CO2	METHANE	ETHANE	PROPANE	I-BUTANE	N-BUTANE	I-PENTANE	N-PENTANE	C6+
Mole %	0.1565	1.751	92.756	3.0569	1.391	0.2407	0.3381	0.0924	0.07513	0.1414

**5. Technical Specifications**

The detailed scope and specifications include - Design, Engineering, Supply, Supervision during installation and commissioning of new Turbine Flow Meter along with Meter-Run spool pieces at BGL Vijayawada GA. The technical specifications for various components of the TFM meter runs to be offered are mentioned below, Therefore, Vendor shall submit duly signed and stamped copy technical specifications with the bid for technical compliance. Materials shall be supplied according to the technical specifications mentioned below.

The bid must be submitted with technical literature and details of the product offered. The technical specifications for various components of the TFM meter runs to be offered are mentioned below. Vendors need to follow and comply with the same. Any deviation in the same will not be acceptable to BGL. Complying of the specifications shall be binding for vendor.

**5.1 Technical Specification of Turbine Flow Meters.**

<b>Technical Specification of Turbine Flow Meter</b>			
	<b>Particular</b>	<b>Specification</b>	<b>Vendor Acceptance (Yes/ No)</b>
<b>A</b>	<b>Manufacturer</b>	* - To be provided by the bidder.	
A.1	Model No	* - To be provided by the bidder.	
A.2	Serial No	* - To be provided later by the bidder.	
<b>B</b>	<b>Quantity</b>	<b>1 Nos (Vijayawada Location)</b>	



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C		Design	
C.1	Type	Turbine Gas Flow Meter for Custody Transfer Measurement of Natural Gas.	
C.2	Design Code	The turbine meter shall be designed, manufactured and tested as per AGA report no. 7 / EN12261 / OIML R 137-1&2.	
C.3	Index Head	8 Digit mechanical counter for actual flow in m <sup>3</sup> /h or as per standards	
C.4	Enclosure	Weather-proof to NEMA 4/ IP 65 or better	
C.5	Area Classification	IEC ZONE 1 GR IIA, IIB, T3	
C.6	Intrinsically safe	Required.	
C.7	Output (NAMUR) HF-1	Required One No. at Turbine Wheel	
C.7 (a)	HF-1	Required Two Nos. one at Reference Wheel & one at Turbine wheel	
C.7 (b)	LF	Required One No.	
C.8	Lubricator with accessories	Oil Reservoir & Lever Pump in SS (Forced Lubrication) or Self Lubrication.	
C.9	Flow Straightener / Profiler.	In Built	
C.10	Pressure Maximum	<b>As per ANSI Class.</b>	
C.11	Meter Size & Rating	<b>1 Nos 6" 300# G400</b>	
C.12	Installation Position	Horizontal	
C.13	Meter range (Qmin - Qmax)	Bidder to mention	
C.14	Rangeability	<b>01:20</b>	
C.15	Repeatability	± 0.1%	
C.16	Accuracy (Qmin to 0.2QT)	± 1% (As per OIML R137 Standard)	
C.17	Accuracy (0.2Qmax to Qmax)	± 0.5% (As per OIML R137 Standard)	
C.18	Operating Temperature	-10 to 60 Deg.C	



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C.19	Power Supply	24 V DC loop powered from flow computer	
C.20	Enclosure	Ex 'd', IP-65 or better	
C.21	Intrinsic Safe	Yes, certificate from FM/ATEX/CSA/IECEX/PESO	
<b>D</b>	<b>Dimensions, Connections, Painting</b>		
D.1	End Connections	Flanged as per ANSI B16.5	
D.2	HF Connector Type	Vendor to specify	
D.3	Facing & Finish	RF serrated, 125 - 250 AARH	
D.4	Pressure tap	On Meter body (NPTF)	
D.5	Thermowell	Not required on meter body.	
D.6	Painting	RAL 5012 ( BLUE) or RAL7035 (Light Grey)	
D.5	Thermowell	Not required on meter body.	
<b>E</b>	<b>Material</b>		
E.1	Body	ASTM A216 Gr WCB or ASTM A350-LF2	
E.2	Turbine Wheel / Rotor	Aluminum	
E.3	Shaft & bearing	Stainless Steel	
E.4	Magnetic Coupling	Ferroxdure Magnet + Stainless Steel	
E.5	Bolting	Stainless Steel	
E.6	Index Head	Aluminum	
E.7	Soft Parts / O-Rings	Viton or Better	
E.8	Tag / Number / Specification Plates	All in SS	
<b>F</b>	<b>Testing &amp; Certification</b>		
F.1	Calibration	Wet Calibration required at Certified Flow Lab (7 points) with Natural gas. Calibration to be performed at Maximum operating pressure of respective meter <b>(Refer Note below).</b>	
F.2	High Pressure Calibration	Required	
	Wet Calibration Pressure for ANSI 300 #	> / = 21 Kg/cm <sup>2</sup> g at 6-Points of flow as per EIC Instructions	
F.3	Hydrostatic test	At pressure 1.5 times the design pressure	
F.4	Air leak test	At pressure 1.1 times the design pressure	



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F.5	Material / Test Certificates	Acc. EN10204, 3.1 or better	
F.6	Calibration Certificates with Traceability	Refer Note Points below.	
F.7	Custody Transfer Approval Certificate	Required	
F.8	Certificate of Repeatability	to be provided along with calibration certificate.	
<b>G</b>	<b>Accessories</b>		
G.1	Lubrication Oil (loose in metallic container)	2 Liter per TFM	
G.2	Binder Connector with 10 Mtrs Cable for HF pulser.	Required Two per TFM.	
H	Type Approval & Model Approval		
H.1	<p>Turbine Meter (offered Size, Type &amp; Model of Meter) shall have Type- approval Certificates.  <b>if Turbine Meter manufactured in India</b>            Type-approval Certificates issued by National Standard Laboratory (NPL, RRSL or Equivalent) are acceptable.  <b>if Turbine Meter manufactured Outside India</b>            Type-approval Certificates issued by reputed Laboratories NMI, PTB, Measurement Canada, NIST, Pigsar, Trans Canada Calibrations (TCC) Canada, Colorado Engineering Experiment Station Inc. (CEESI) USA, Southwest Research Inc (SWRI) USA or equivalent are acceptable.            The Vendor shall furnish the regulations of the Certifying Authority considered by him for custody-transfer applications.</p>		
H.2	<p>Turbine Meter (offered Size, Model of Meter) shall have Model approval Certificates from Weights and Measurement dept of consumer affairs - Govt of India.            Bidder must submit the reports (OIML/MID/Test reports based on which approval obtained) mentioned in model approval certificate issued by Weights and Measurement, dept of consumer affairs - Govt of India.</p>		
	<b>NOTE:</b>		
	The Turbine Flow Meters shall be 'Flow-Calibrated' and shall have Calibration Certificate issued by NABL-accredited Agency or other reputed National Standard Laboratory, NMI, PTB, Pigsar,		



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1	Trans Canada Calibrations (TCC) Canada, Colorado Engineering Experiment Station Inc. (CEESI) USA, Southwest Research Inc. (SWRI) USA or equivalent. Desired accuracy shall be demonstrated under flow-conditions for Turbine Meter with Wet Flow Calibration from Qmin to Qmax. The Meter Proving System to be used by the Vendor shall be traceable to International Standards and CMC of lab / calibration agency should be (+/-) 0.5% or better.	
2	The Pulse Generator shall be non-contact proximity switches mounted near Turbine Wheel and Reference Wheel or non-contact type Pulse Pick-up unit. The unit shall be tropicalized hermetically-sealed and shall be either intrinsically-safe or explosion-proof as per data sheet. Further, it shall be weatherproof to NEMA 4.	
3	The Turbine Meter shall be axial flow type Gas Turbine Meter in which the entire gas stream passes through the Turbine Meter Rotor. The Turbine Metering of Natural Gas shall be designed, manufactured and tested as per AGA Report-7.	
4	Velocity through Turbine Meter shall not exceed 20 m/s.	
5	HF Pulsar shall be used during Calibration of Meter.	
6	Index-head shall have minimum IP-65 Enclosure.	
7	Flow Direction shall be marked on meter body.	
8	Installation and Commissioning is in vendor's scope.	
9	Documents Required During Material Supply 1. AGA7/EN 12261/ OIML R 137-1&2. complaint certificate of supplied flowmeters 2. Weatherproof IP65 as per IEC 60529 / IS 2147 or better 3. Intrinsically safe certificate from FM/ATEX/CSA/IECEX/PESO 4. Hydrotest certificate 5. Duly signed Meter calibration certificate 7. Traceability Certificate of Master Meter used in proving.	

**5.2 Specification for Meter Run/ Upstream downstream spools:**

<b>Specification for Meter Run as per AGA-7</b>			
<b>Sl. No.</b>	<b>Particular</b>	<b>Specifications</b>	<b>Vender Acceptance (YES/NO)</b>
1	Purpose	Custody Metering of Natural Gas	
2	Governing Standard	AGA 7 Latest	
3	Quantity	1 No Meter Runs with Flow Meters as per drawings and specifications attached.	
4	Pipe Material	Seamless Pipe as per ATSM A-106, Gr-B, Sch-40	
5	Size	As per attached drawing	
6	Class	300# (As per attached drawing)	
7	Flow and Pressure (Max)	As per BOQ specification and Process data of the	



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		location	
8	Temperature Range	-10 to 60 degree centigrade	
9	Thermo well , RTD(PT-100)	The thermo well should be provided as per AGA standard in the downstream along with 4 wires RTD (PT-100) Accuracy Class: BAND 3 or better.	
10	Pressure tap in the downstream	As shown in the Drawing.	
11	Medium Specific Gravity	Natural Gas, Sp. Gravity: Min 0.50/ Nor 0.70/ Max - 0.80	
12	Fastner	All the studs and nuts shall be supplied by vendor with meter tube of appropriate size. The bolt and nuts shall be galvanized and supplied for both end of flange in the up stream and down stream of meter tube.	
13	Gasket	Spiral wound B 16.20, inner and outer ring SS- 316 to be provided for each flange of the meter tube including end connecting flanges.	
14	Painting	Meter tube shall be painted by epoxy paint and its compatible primer as per piping standard (Cannery Yellow colour)	
15	Roughness	Piping (10D & 5D) internal smoothness shall be as per AGA 7 standard, the supplier shall provide measurement details and test certificate for the honing / surface finish. The measurement shall be taken by digital surface smoothness meter.	
16	Radiography & Hydro-Testing	100% radiography of all welded joints and meter tube shall be hydro tested at 1.5 times the designed pressure. All test report shall be submitted by the vendor.	
17	<b>Flow Straightener</b>		
17.1	Type	19 Tube bundle	
17.2	Material	SS 316	

<b>Notes:</b>		
1	Therefore, successful bidder needs to visit the site to note the exact dimensions and flanges / fittings details before fabrication. Dimensions given in the attached drawings may slightly vary.	
2	Meter tube lengths & flange ratings shall be suitable to fit at the existing location.	
3	Pressure Transmitters along with tube & tube fittings are also in vendor scope of supply.	
4	Installation and Commissioning is in vendor's scope.	
5	Approval of Drawings and Documents is required before manufacturing.	
6	Bidder shall supply instrument valves (miniature type) and valve manifolds wherever required.	



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**DATA SHEETS**



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**Data Sheet of RTD & Thermowell**

A	<b>Thermowell</b>	
A.1	Manufacturer	* - To be provided by the bidder.
A.2	Model No	* - To be provided by the bidder.
A.3	Serial No	* - To be provided by the bidder.
A.4	Type	Screw Type
A.5	Construction	Screwed Barstock Drilled
A.6	Material	SS 316
A.7	Design	As per ASME PTC-19.3
A.8	Hex Size	1"
A.9	Immersion Length	60% of pipe size
A.10	Instrument Connection	1/2" NPT (F)
A.11	Process Connection	1/2" NPT (M)
A.12	Bore Concentricity	Within 10% of wall thickness
B	<b>RTD</b>	
B.1	Manufacturer	* - To be provided by the bidder.
B.2	Model No	* - To be provided by the bidder.
B.3	Serial No	* - To be provided by the bidder.
B.4	Make	Reputed
B.5	Purpose	Temperature Measurement in Custody Metering of Natural Gas
B.6	Head	Explosion proof, weatherproof IP65, head in Aluminum alloy LM -6. Construction suitable for use in hazardous location of div 1. Painted with epoxy base paint shade 631 of IS:5
B.7	Instrument Entry	1/2" NPT (F)
B.8	Cable Entry	1/2" NPT (F)
B.9	Type	PT-100, 4 wire, Duplex
B.10	Insulation	Mineral insulated (compact MgO)
B.11	Accuracy	As per IEC 751 / DIN 43760, Band 3 (1/3 <sup>rd</sup> DIN) or better.
B.12	Sheath Material	SS 316
B.13	Terminal	Nickel / Silver plated Brass terminals
B.14	Process Connection	1/2" NPT(M) adjustable type made of SS
B.15	Material Conformance Certificate	Vendor to submit along with supply
B.16	Calibration Certificate	Vendor to submit along with supply
<b>Notes:</b>		
1	Installation and Commissioning is in vendor's scope.	



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2 Approval of Drawings and Documents is required before dispatch.

**Data Sheet of Temperature Transmitter**

A.1	Manufacturer	* - To be provided by the bidder.
A.2	Model No	* - To be provided by the bidder.
A.3	Serial No	* - To be provided by the bidder.
A.4	Purpose	Temperature Measurement in Custody Metering of Natural Gas
A.5	Type	Temperature analog measurement
A.6	Range	0-100 Deg c
A.7	Configuration	Through Handheld HART
A.8	Mounting	Direct with bottom entry
A.9	Accuracy	0.15% span
A.10	Inputs	4 wire PT100 RTD
A.11	Output	4-20 mA, HART
A.12	Load resistance	600 ohms
A.13	Power supply	24V DC Loop powered
A.14	Enclosure	Weatherproof to IP-65 or better
A.15	Wiring	2 wire
A.16	Display	Local integral display (4 digit LCD)
A.17	Finish	MFR Standard
A.18	Cable connection	2 Nos of 1/2 " NPTF
A.19	Mounting accessories	2" pipe mounting accessories required
A.20	Sunshade	Required FRP
A.21	Body Material	Die Cast Aluminium with corrosion resistant paint

**Notes:**

1	Installation and Commissioning is in vendor's scope.
2	Approval of Drawings and Documents is required before dispatch.

**Data Sheet of Pressure Transmitter**

A.1	Manufacturer	* - To be provided by the bidder.
A.2	Model No	* - To be provided by the bidder.
A.3	Serial No	* - To be provided by the bidder.
A.4	Purpose	Pressure Measurement in Custody Metering of Natural Gas
A.5	Type	Scalable Pressure Transmitter (smart)
A.6	Communication Protocol	4-20 mA with digital signal based on HART protocol
A.7	Elect. Area Class	IEC-Zone-1, Gr-IIA, IIB and Temp Class T3



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A.8	Weatherproof	IP 65 or better
A.9	Accuracy	±0.075% of the Span
A.10	Repeatability	+/- 0.1% Of Span
A.11	Measurement type	Absolute
A.12	Service	Natural Gas
A.13	Stability	0.2% of URL For Minimum 10 Years Or Better
A.14	Power Supply	24 V Dc +/- 10% (2 Wire)
A.15	Manifold	Should be integral/assembled along with each transmitter (2-way valve type SS316). The assembly should be leak tested at OEM facility before delivery and reports should be submitted along with supply
A.16	Display	LCD
A.17	Resolution	0.01 kg/cm2 or better
A.18	Drain/Vent provision	Should be provided with plug installed in manifold
A.19	Connection Type	In line / coplanar/Traditional
A.20	Process connection	1/2 " NPT female at manifold end (to be provided along with transmitter)
A.21	Adaptor	½" (Male) X ½" (Male) adaptor for coupling Transmitter with manifold required with each transmitter
A.22	Electrical connection	1/2 " NPT conduit
A.23	Calibration report	Should carry validity of minimum 1 year from date of purchase from OEM facility Lab/Approved lab
A.24	Update time	0.5 seconds or better
A.25	Sensor Type	Capacitance or Silicon Resonant or piezo resistive
A.26	Ambient temperature	-25 to 65 Deg. C or Higher Ranges
A.27	Ambient humidity	5 to 95% RH
A.28	Turn down ratio	100:1 or better
A.29	Damping Time constant	Adjustable, 0 to 30 seconds or better
A.30	Response time	220 m sec or better
A.31	Calibration Range & Quantity	As per process data and BOQ
A.32	Load driving Capability	Min. 500 Ohm at 24VDC
A.33	Body Material	Die Cast Aluminum with corrosion resistant paint
A.34	Bolts	SS
A.35	Cover O-ring	PTFE glass-filled or better
A.36	Tag Plate	SS



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A.37	Element	Diaphragm
A.38	Housing Type	Dual Compartment
A.39	Element Material	SS 316L or better
A.40	Wetted O-Rings	Glass filled-PTFE
A.41	Drain/Vent plugs	SS316
A.42	Over Range Protection	150% of Span. Transmitters shall also be protected against full vacuum
A.43	Lightning Protection	Required (built-in) up to 1kV
A.44	Vibration & Shock Resistance	Required
A.45	Electromagnetic Compatibility	Required as per EN 61326/NAMUR NE-21
A.46	Self-Test/Diagnosis	Required in Case of CPU Failure/Hardware Failure Error Should Be Available on Display
A.47	Zero & Span Adjustment	By Hard Buttons on Transmitter + Hand-Held HART Communicator
A.48	Write Protection	Required
A.49	Fail Safe Current	As per NAMUR NE 43
A.50	Mounting Position	Transmitters can be mounted in any position. Electronics housing may be rotated to any position.
A.51	Mounting Bracket	Required with SS304 Nuts & Bolts as per ASTM and suitable for mounting on 2"NB vertical pipe
A.52	Cable gland	Double compression SS316 required
A.53	Calibration Certificate	Required Traceability to National/International standards
A.54	Impulse Tubing	<p><b>a)</b> Impulse tubing shall be 1/2" OD x 0.049" thick ASTM A 269 TP 316 stainless steel fully annealed, cold drawn and seamless tubes as a minimum for impulse lines up to 600 # class. Higher thickness according to pressure rating shall be considered for higher pipe classes.</p> <p><b>b)</b> The hardness of SS tubes shall be Rockwell RB 70-79.</p> <p><b>c)</b> Slope of Impulse Tubing while installation shall be as per AGA.</p>
<b>Notes:</b>		
1	Installation and Commissioning is in vendor's scope.	
2	Approval of Drawings and Documents is required before dispatch.	



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**Data Sheet for Ball Valves**

1	Manufacturer	* - To be provided by the bidder.	
2	Model No	* - To be provided by the bidder.	
3	Serial No	* - To be provided by the bidder.	
4	Actuator	Not Required	
5	Valve Size (NB) (inch)	02 to 04" (As per attached drawing)	
6	ANSI Rating	300#	
7	Design Standard	API 6D	
8	Connecting Pipeline Design Pressure	49 Kg/cm2 (g)	
9	Design Temperature Range	-25 to 65 Degree Centigrade or Higher Ranges	
10	<b>Connecting Pipe Specification:</b>		
10.1	Size	DN50 (2")	DN100 (4")
10.2	Material	ASTM A106 Gr. B	ASTM A106 Gr. B
10.3	Outer Diameter, mm	60.3	114.3
10.4	Thickness, Mm	5.54	6.02
11	<b>Valve Construction Design</b>		
11.1	Configuration	Full Bore	
11.2	End Connections	Flanged as per ASME B16.5	
11.3	Flanges (wherever applicable)	RF Smooth (125 to 200 Micro inches AARH)	
11.4	Ball Mounting	Floating Ball Valves 2", 3", 4"	
12	<b>Valve Material Specification</b>		
	<b>Part</b>	<b>Specification Material</b>	
12.1	Body	A 216 Gr. WCB/A234 Gr, WPB	
12.2	Ball	(A 216 Gr. WCB/A234 Gr, WPB)+75µENP coating/AISI410	
12.3	Body Seat Rings (No Casting)	AISI 410+75 micron ENP Coating / AISI 410	
12.4	Seat Seal	VITON/DEVELON	
12.5	Stem (No casting)	AISI 410+75 micron ENP Coating / AISI 410	
12.6	Stem Seals	VITON/PTFE	
12.7	Stud Bolts / Nuts	ASTM a 193 Gr, B7/ A194 Gr, 2H	
13	Corrosion Allowance	1.5mm	
14	Service	Natural Gas	
15	Location	Above Ground	



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16	Stem Extension Requirement	Not Required		
17	Gear Operator Requirement	Gear Operator Requirement for 8" & 6" Ball Valves		
		Lever Operated for 4" & 2" Ball Valves		
18	Fire Resistant Design Requirement	Type test as per API 6FA/API607		
19	<b>Valve Testing Requirement</b>			
19.1	Hydrostatic Test		Test Pressure (min.) kg/cm <sup>2</sup> (g)	Minimum Duration, minutes
		Body	76	As per API 6D
		Seat	57	As per API 6D
19.2	Air Test		5.6-7	As per API 6D
20	Anti-Static Testing Requirement:	As per Standard API6D (Latest Ed.)		
21	<b>Valve Painting Specification</b>			
21.1	Surface preparation by Short Blasting as per grade SA2 1/2, Swedish Standard SIS-055 -09,			
21.2	For above ground installation-Three coats of corrosion resistant paint shall be applied with minimum thickness of 300 micron (Permissible thickness in each coat shall be within 80 to 120 micron), Colour of paint shade shall be RAL-7038, however any change in colour shall be finalized during drawing approval stage.			
22	Lock Open			
<b>Notes</b>				
1	Minimum thickness of valve body and adapter shall not be less than that specified in ASME B16, 34 plus 1.5 mm corrosion allowance.			
2	Inspection and Testing shall be as per attached QAP, this Data Sheet, API6D and other relevant standards.			
3	Stops shall be provided for positive alignment of ball with ports and ensure proper installation of handle.			
4	Short pattern valves (as per API6D or otherwise) are not permitted. Only long pattern valves are to be supplied.			
5	Charpy V-notch & Hardness test for body, body adaptor, end flanges, ball, body seat rings, stem & studs / nuts shall be conducted as per CI. 3.4 & 3.6 of TS respectively or as per relevant material code.			
6	Compressed asbestos fibre (CAF) shall not be used for body sealing/ gasket materials.			
7	For welding end, the out of roundness (i.e. difference between maximum and minimum ID at pipe end) shall not be more than 0.5% of pipe OD.			
8	Valves shall be inspected and approved by Purchaser/ Purchaser's representative before dispatch.			
9	Support foot & lifting lugs shall be provides as per CI. 4.16 of the TS for Ball Valves.			



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**DATASHEET FOR SOCKET WELDED & THREADED BALL VALVE (BELOW 2" -800#)**

Sl. No.	Description	Specifications
1	Valve size	As per Annexure -1, Schematic
2	Services	Natural Gas
3	Pressure Class Rating	800#
4	Design standard	BS 5351/ISO 17292
5	Corrosion Allowance	1.5mm
6	Design factor	0.4
7	Design Pressure	132-138 Bar-g
8	Design temperature	800#0 to 650c
9	Operating pressure	As per process data
10	Operating temperature	As per process data
11	Location	Above Ground
12	Valve type (Floating / Trunnion mounted)	Floating Type
13	Bore (Full/ Reduced)	Full Bore
14	End constructions	SW End (as per ASME B 16.11)
15	Locking Arrangement	Provided
16	Shut off Class	VI
17	Construction	Two pieces
18	BI- Directional	Applicable
19	Operation	Lever Operated
20	Open and close Ball position indicator	Applicable
21	Body & Side	ASTM A216
22	Ball (SOLID)	ASTM A479 316/410
23	Seat Seal	PRTFC
24	Stem	ASTM A479 316/410
25	Stem seals	PTFE
26	Stud bolts/ Nuts	ASTM A193 Gr.B7 / A194 Gr. 2H
27	Gland Packing	GRAPHOIL
28	Fire Resistant Design Requirement	As Per API 6FA/API07
29	Hydrostatic Test Body and Seat	body:- 1.5xDesign Pressure Seat:- 1.1xDesign Pressure
30	Air Seat Test	7-10 bar
31	Marking & Painting Spec.	Painted with a coat of primer and final coat of Ral 7038 suitable to DFT 300 mic.
32	Make	Any BGL Approved make SOCKET WELDED & THREADED BALL VALVE



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**DATASHEET FOR CABLES**

Sr.No	Properties	Description	Description	Description
	Application	Transmitters, Pulse & Flow Control Valve Signal	Pulse Signal, RTD Signal & Multi-Pair	Communication Cable
1	Make	- To be provided by the bidder	- To be provided by the bidder	- To be provided by the bidder
2	Voltage grade	650 VOLTS	650 VOLTS	300 / 500 VOLTS
3	Size	1 PAIR * 1.5 sqmm	2 PAIR * 1.5 sqmm	2 PAIR
4	Conductor			
	a) Material	Stranded annealed bare copper as per IS 8130 /84	Stranded annealed bare copper as per IS 8130 /84	Multi stranded annealed bare copper as per IS 8130 /84
	b) Nom. Size	1.5 sqmm	1.5 sqmm	0.22 sqmm
	c) No. / approx. Dia. of Strands	7/0.53 mm	7/0.53 mm	7/32 mm
5	Insulation			
	a) Material	Extruded PVC type C as per IS 5831 / 84	Extruded PVC type C as per IS 5831 / 84	XLPE
	b) Nom. Thickness	0.6 mm	0.6 mm	White/Blue, White/Orange
	c) Colour	White / Black	White / Black	By number printing on one core of each
	d) Identification	--		10 twists per mtr
6	Twists	10 twists per mtr	10 twists per mtr	
7	Pair Screening			Aluminium backed Mylar Tape + tinned copper wire braid
	a) Material	Aluminium backed Mylar Tape	Aluminium backed Mylar Tape	0.025 mm
	b) Thickness of tape	0.024 mm	0.025 mm	100% / 25%
	c) Coverage / Overlap	100% / 25%	100% / 25%	Annealed tinned copper (ATC)



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	d) Drain 0.5 sqmm ATC	7/0.3 mm	7/0.3 mm	24 WG
8	Overall Screening			
	a) Material	--	Aluminium backed Mylar Tape	Aluminium backed Mylar Tape + tinned copper wire braid
	b) Thickness of tape	--	0.05 mm	0.025 mm
	c) Coverage / Overlap	--	100% / 25%	100% / 25%
	d) Drain 0.5 sqmm ATC	--	7/0.3 mm	Annealed tinned copper (ATC)
9	Inner Sheath			25 WG
	a) Material	FR PVC type ST2 as per IS 5831/ 84	PVC type ST2 as per IS 5831 / 84	
	b) Minimum thickness	0.3 mm	0.3 mm	Extruded ST2 PVC
	c) Colour	Black	Black	0.5 mm
10	Armour			Black
	a) Material	Galvanized steel wire	GI strip	
	b) Nom. Diameter of wire	0.9 mm	4 x 0.8 mm	Galvanized steel wire
11	Outer Sheath			0.9 mm
	a) Material	FRLS PVC type ST2 as per IS5831 / 84	FRLS PVC type ST2 as per IS5831 / 84	
	b) Minimum thickness	1.24 mm	1.24 mm	FRLS Extruded ST2 PVC as per IS 5831 / 84
	c) Colour	Black	Black	1.2 mm
12	FRLS Properties			Grey

	a) Oxygen Index	Over 30% as per ASTM D 2863	Over 30% as per ASTM D 2863	Over 30% as per ASTM D 2863
	b) Temperature Index	250°C as per ASTM D 2863	250°C as per ASTM D 2863	250°C as per ASTM D 2863
	c) HCL Emission	20% as per IEC – 754-1	20% as per IEC – 754-1	20% as per IEC – 754-1
	d) Smoke Density	60% Max. as per ASTM D 2843	60% Max. as per ASTM D 2843	60% Max. as per ASTM D 2843
	e) Flammability	Passes as per IEC 60332 part 3 Cat A	Passes as per IEC 60332 part 3 Cat A	Passes as per IEC 60332 part 3 Cat A
13	Conductor Resistance	12.3 ohm/km	12.3 ohm/km	92ohm/km
	Min. Insulation. Resistance	100M ohm/Km	100M ohm/Km	5000M ohm/Km
	Max. mutual capacitance bet. Cores	250 pF/m	250 pF/m	400 pF/m
	Max. mutual capacitance Bet. Core to shield	400 pF/m	400 pF/m	
	High Voltage bet. Cores	1000 Volts for 1minutes	1000 Volts for 1minutes	1000 Volts for 1minutes
	High Voltage bet. Core & shield	1000 Volts for 1minutes	1000 Volts for 1minutes	1000 Volts for 1minutes
14	Nominal Overall diameter of cable	12.2 ± 1 mm	17 ± 2 mm	16 ± 1 mm



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<b>DATA SHEET FOR JUNCTION BOX</b>	
Tag No.:	Vender to Specify
Qty.:	As per BOQ (Site wise)
Application: For Integrating filed analog signals	
Enclosure Flameproof - Ex (d)	
Protection IP 66 or better	
Material Die Cast Aluminium Alloy LM -6	
Thickness As per m fg std.	
Gasket Endless, Moulded neoprene	
Earthing 1 No. inside & 2 Nos. outside M6	
Door: Door with hinges required	
Size As per JB Drawing	
Colour Gray (RAL 7035)	
Painting Epoxy powder coated shade RAL - 7035	
Warning Description on Cover Isolate power supply elsewhere before opening	
Cable Entry - As per manufacturers standard (Must be suitable for 1Pair and 2pair cable entry)	
Terminals Spring loaded, vibration proof, clip on type, mounted on nickel plated steel rail with end cover.	
Terminals Size 1.5 sq. mm	
Terminals Qty 12 Nos.	
Accessories per JB Cable Glands Flameproof, weatherproof, double compression brass nickel plated cable glands with shrouds. Blind Plugs Flameproof, weatherproof, Brass nickel plated, shall be installed for unused cable entries. Quantity of Glands and Plugs Cable Glands quantity shall be as per cable schedule. All spare entries shall be plugged. Breathing Plug 1 No. of 1/2" NPT	
Hazardous area Certification Flameproof certified suitable for IEC Zone-I, Gas Group IIA & IIB Temp class T3. Required	
Name Plate: Name plate with details below shall be securely fixed to the body of the each Flame proof Junction Box	
1. Manufacturer's Name and Model Number	
2. Enclosure classification	
Tag Plate: SS316 plate with details below shall be securely fixed to the body of the each Flame Proof Junction Box	
1. Tag Number	
Certificates : CCOE (PESO) Certificate & CMRI Certificate	
Instrument to be Mounted inside Junction Box :	

## **Technical Specification – Electronic Volume Corrector (EVC)**

Requirement No	Requirement	Detailed Specifications
RQ 1	Type	Internal Battery-operated Electronic Volume Corrector suitable for mounting in the field location in Hazardous area for natural Gas atmosphere.
RQ 2	Function	The EVC for measuring, monitoring Gas flow from a Gas Turbine/RPD meter. The EVC shall measure actual gases volume, pressure and temperature and calculate compressibility factors of the gas based on GC values and shall calculate standard volume of gas. The unit shall be complete in all respects to achieve this functionality.
RQ 3	Inputs	<p>a) LF Pulse Input (two numbers) from RPD/Turbine Flow Meter for flow. And HF Pulse Output.</p> <p>b) Temperature signal from built in RTD (Pt-1000 / Pt 100, 4 wire) thermal element with an accuracy of or better than <math>\pm 0.2\%/0.5</math> degree C of measured value with thermowell.</p> <p>c) Pressure signal from built-in Pressure Sensor [<math>\frac{1}{4}</math>" inch NPTM thread] with <math>\frac{1}{4}</math>" inch SS isolation Valve, final fit-up into <math>\frac{1}{4}</math>" NPTF. Sensor with accuracy of or better than <math>\pm 0.15\%</math> of measured OR overall accuracy of EVC at reference conditions as <math>\pm 0.5\%</math>.</p>
RQ 4	Outputs	Digital Pulse output (Two numbers). The two Pulse outputs must be configurable for Unconverted volume pulse retransmission & Converted volume pulse retransmission respectively.
RQ 5	Communication Interface	<p>RS-232 and RS-485 Serial interface for data transmission from EVC to external modem / data logger based on Modbus protocol. These ports will be only used for data downloading. No EVC data should be changed through this port.</p> <p>EVC can be accessed with Laptop to download / configure EVC data / records through USB 2.0/ 2.1 /3.0 /3.1 port with appropriate communication cable (maybe optical or any other).</p> <p>The same cable will be supplied with this order as accessory.</p>
RQ 6	Output Measurement	<p>a) Corrected flow rate: <math>\text{Sm}^3/\text{hr}</math>.</p> <p>b) Corrected totalized volume: <math>\text{Sm}^3</math></p>

		<p>c) Pressure: Bar (Absolute)</p> <p>d) Temperature: °C</p> <p>e) Alarm output for unit malfunctioning</p>
RQ 7	Display	<p>Alphanumeric large character LCD with selectable decimal, Displaying all units, messages, alarms etc. shall be in English</p> <p>Units of Display of parameters like</p> <p>a) Corrected flow rate: Sm<sup>3</sup>/hr.</p> <p>b) Corrected Totalised volume : Sm<sup>3</sup></p> <p>c) Pressure : Bar (Absolute)</p> <p>d) Temperature : Deg C</p> <p>e) Non resettable total (SCM)</p> <p>f) Days Total (SCMD)</p> <p>g) CO<sub>2</sub>/N<sub>2</sub>/Sp. gravity etc.</p> <p>h) Uncorrected flow rate m<sup>3</sup>/hr.</p> <p>i) Uncorrected total volume m<sup>3</sup></p>
RQ 8	Power Supply	<p>Lithium/Alkaline Battery with working life of 5 years. (Warranty/Claim for the same shall be provided by vender) for EVC and Modem. Ass well as Vendor have to supply the power adopter with compatible with EVC for power supply.</p>
RQ 9	Configuration Setup	<p>To be done in factory for all EVC's, fully considering the process conditions, sensor &amp; flow meter's characteristics and calibrations for direct on-site operations.</p>
RQ 10	Operating Pressure range	<p>a) For Medium Pressure EVC - 0 to 25 Barg</p> <p>b) For High Pressure EVC - 0 to 49 Barg Refer SOR (Schedule of Rates)</p>
RQ 11	Calculations Standard	<p>a) Volume Flow calculations: AGA7 (Latest)</p> <p>b) Compressibility: AGA 8 (Latest)</p>

RQ 12	Features	<p>a) Built in diagnostics to detect proper functioning.</p> <p>b) Data security through password AND key-lock.</p> <p>c) Parameters and programmed constants shall be stored in EEPROM / non-volatile memory.</p> <p>d) Facility for entry and accessing live and stored data through remote/external Laptop /PC.</p> <p>e) Must have facility to store at least 180 days (Six Months) data (on hourly basis) and 365 days (Six Months) data (on daily basis) for pressure, temperature and corrected and uncorrected flows with date and time stamping.</p> <p>f) The above stored data shall be retrievable by using Modem/Laptops. Suitable serial port shall be available on the EVC for GSM and GPRS Modem/Laptops. Software required shall be supplied in 03 (Three) sets.</p> <p>g) Register address and protocol shall be provided.</p> <p>h) Facility to edit/change the setup data values such as Base pressure, Base Temperature, GC values etc.</p> <p>i) Pulse output for SCADA/ Data Logger/AMR (At least 02 numbers).</p> <p>j) There shall be space on EVC door for affixing paper seal (Size).</p> <p>k) There shall be a separate archive for registering change in critical data such metrological changes, volume index changes, device identification changes, date/time changes etc. The EVC will record such event with date time, description of change, old value and new value. Under no condition such records can be deleted. Also, there shall be sufficient memory to preserve oldest record</p>
RQ 13	Hazardous Area	EVCs and related accessories must be certified for use in area at least with hazardous area Classification for natural gas as per IEC79 Zone 1 Group IIA/IIB, T3/T4.
RQ 14	Certification	EVC must be approved by NMI/PTB/Mesurement Canada/Legal metrology authority of country of origin of items/ Directorate of legal Metrology Govt. of India for use in custody transfer applications of natural gas.
RQ 15	Site Conditions performance	Temperature -05 degree to 55° C (Design), Hot Humid
RQ 16	Enclosure	Weatherproof to IP 65/66/Higher and Compatible for mounting in Hazardous area as mentioned above.
RQ 17	Inclusive Accessories	<p>(a) )1 Nos of optical/USB connector cable for data logging to PC/Laptop from EVC is to be provided by vendor.</p> <p>(b) Software for configuration of EVC in Four set.</p>

RQ 18	Database	<p>Minimum six logs are required:</p> <ul style="list-style-type: none"> <li>a) an hourly log</li> <li>b) a daily log</li> <li>c) a monthly log</li> <li>d) an interval log</li> <li>e) an events log</li> <li>f) a parameters log</li> </ul>
RQ 19	Events Log	<p>All main events (alarms, reset, switches position (ON/OFF) change, programming).</p> <p>For each event, the following data are to be required:</p> <ul style="list-style-type: none"> <li>a) Date and time of the event</li> <li>b) Nature of the event</li> <li>c) Specific value (previous and new) for some events only.</li> <li>d) Status</li> </ul> <p>The events log has a minimum capacity of and cannot be reset. It will be circular: when it is full, every new event replaces the oldest one.</p>

**Note:**

- Installation guide by installing Of EVC at site should be done by vendor after procurement and minimum three day training shall be conducted by vendor free of extra cost.
- The bidder must confirm the technical specifications of offered EVC on the checklist format as above.



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## **PIPING MATERIAL SPECIFICATION (PMS)**



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**ANNEXURE A- PMS 150# CLASS**

**ANNEXURE B- PMS 300# CLASS**

## 1.0 SCOPE

This document covers minimum requirements for various piping materials necessary for the design of the piping/ pipeline and metering skid facilities coming under the project. This specification shall be read in conjunction with various Codes and Standards of latest edition, as applicable.

## 2.0 CODES AND STANDARDS

2.1 Pipeline and pipeline terminal facilities envisaged as part of this project shall be designed and engineered primarily in accordance with the provisions of the latest edition of the following codes:

- (i) ASME B31.8 – Gas transmissions and Distribution Piping System
- (ii) ASME B31.3 – Chemical Plant and Petroleum Refinery Piping
- (iii) OISD Standard 141 – Design and Construction Requirements for Cross Country Hydrocarbon Pipelines.

2.2 All codes, standards and specifications referred herein shall be the latest edition of such documents.

2.3 For sake of brevity the initials of the society to which the codes are referred may be omitted in the specifications, for example, B16.5 is a code referring to ASME; A106 is a code referring to ASTM.

2.4 In addition, BGL specifications and standards for various piping and pipeline materials shall also be applicable.

## 3.0 MATERIAL SPECIFICATIONS

Individual piping class has been generally designed to cover a set of service operating within pressure-temperature consideration as per ASME B16.5/ B16.34 or part of it. Deviations of material from class specifications may occur due to specific design conditions and/ or availability. These deviations are permissible if they equal or better the individual class requirements and shall be subjected to approval on case-to-case basis. All materials shall conform to detailed specifications / data sheets for items as applicable.

## 4.0 PIPELINE

4.1 Line pipe material grade and wall thickness details are indicated in Annexure-I.

## 5.0 PIPES

5.1 Carbon steel pipe shall be made by open hearth, electric furnace or basic oxygen process only. The steel used shall be fully killed and made with fine grain structure. The grade and wall thickness of various sizes of pipes shall be as per piping material specification for the applicable class.

**5.2** Pipe dimensions shall be in accordance with ASME B 36.10 for carbon steel ASTM standard pipes; & API 5L for carbon steel API 5L grade pipes.

**5.3** All pipe threads shall conform to American Standard taper as per ASME B1.20.1 NPT, unless otherwise specified.

**5.4** For butt weld end, bevel shall be in accordance with API specification 5L or ASME B 16.25 as applicable.

## **6.0 FITTINGS**

**6.1** Fully killed carbon steel shall be used in the manufacture of fittings. The fitting shall have carbon equivalent not exceeding 0.45, based on check analysis.

**6.2** Threaded joints, if used, shall conform to American Standard taper as per ASME B1.20.1 NPT.

**6.3** Dimensions of socket welded/ screwed fittings shall conform to ASME B 16.11. Swage shall be as per BS 3799.

**6.4** Dimensions of steel butt welded fittings shall be as per ASME B 16.9.

**6.5** Bore of socket welded fittings shall suit outside diameter (OD) of pipe and its thickness.

**6.6** Butt welding ends shall conform to API specification 5L or ASME B 16.25 as applicable. In case of difference in thickness of matching ends, requirements of ASME B 31.8 shall apply.

**6.7** Integrally reinforced forged branch fittings such as Sockolet, Weldolet etc. shall be as per MSS-SP-97. Fittings not covered in ASME B16.9 and MSS-SP-97 shall conform to manufacturer's standard.

**6.8** Fittings thickness tolerances shall match pipe thickness tolerance.

## **7.0 BENDS**

**7.1** Unless otherwise specified for process piping, elbow of radius  $R = 1.5 D$  shall only be used. Minimum Bend Radius  $D = \text{Specified Outside Diameter}$

**7.2** In order to accommodate changes in vertical and horizontal alignment in piggable section of pipeline, Elastic bends/ Cold field bends/ Hot formed long radius bends shall be used. Long Radius Bend shall be used only when indicated in the drawing.

**7.3** Miters shall not be used.

## **8.0 FLANGES**

**8.1** Pressure Temperature rating of flanges shall conform to B16.5/ MSS-SP44/ B16.47 Series A, as

applicable.

- 8.2** Dimensions of flanges shall be in accordance with B16.5/ MSS-5P44/ B16.47 Series A, as applicable.
- 8.3** Neck of weld neck (WN) flanges shall suit pipe bore and thickness.
- 8.4** Bore of socket welded (SW) flanges shall suit pipe O.D. and its thickness.
- 8.5** Threads for screwed flanges, if used, shall conform to American Standard taper as per ASME B1.20.1 NPT.
- 8.6** Sizes for blind flanges shall be indicated by nominal pipe size.
- 8.7** Unless specified otherwise in Piping Material Specification the flange face finish shall be as per ASME B16.5.
- 8.8** Butt welding ends of WN flanges shall conform to ASME B 16.25.
- 8.9** Spectacle blind/ spacer & blinds shall be in accordance with ASME B16.48/ manufacturer's standard.
- 8.10** Two jack screws, 180° apart shall be provided in spectacle blind or spacer & blind assemblies as per BGL standards.

## **9.0 GASKETS**

- 9.1** Spiral wound metallic gasket with compressed asbestos filler shall conform to ASME B16.20/ API 601. All spiral wound gaskets shall be provided with stainless steel centering ring.
- 9.2** Spiral wound gasket shall be self-aligning type.

## **10.0 BOLTING & THREADS**

- 10.1** Nuts for stud bolts shall be American Standard Hexagon Heavy Series and double chamfered.
- 10.2** Dimension and tolerances for stud bolts and nuts shall be as per ASME B18.2.1 and 18.2.2 with full threading to ASME B 1.1 Class 2A thread for bolts and Class 2B for nuts. Diameter and length of stud bolts shall be as per ASME B 16.5/ ASME B16.47 with full threading.
- 10.3** Threads for nuts shall be as per ASME B 1.1

Nuts for stud bolts dia ¼" to 1"	:	UNC-2B
Nuts for stud bolts dia 1 ⅛" to ¾"	:	8UN-2B

- 10.4** Threads for stud bolts shall be as per ASME B 1.1, as follows:

Stud bolts dia ¼" to 1"	:	UNC-2A
Stud bolts dia 1 ⅛" to ¾"	:	8UN-2A

**10.5** Threads for threaded pipe, fitting, flanges and valve shall be in accordance with B1.2O.1 taper threads, unless specified otherwise.

**10.6** Heads of jack screws shall be heavy hexagonal type. Jack screw end shall be rounded. Stud bolts shall be fully threaded with two hexagonal nuts.

### **11.0 THREAD SEALANT**

**11.1** Threaded joints shall be made with 1” wide PTFE jointing tape.

### **12.0 VALVES**

**12.1** Valve ends shall be as per valve data sheets (enclosed in Annexure-II) for various piping class.

**12.2** Sectionalizing valves, Block valves and other isolation valves installed on the main pipeline shall be ball valves with butt welding ends. All inline isolation valves on the mainline (pipeline) shall be full bore valves to allow smooth passage of cleaning as well as intelligent pigs.

**12.3** All buried valves shall be provided with stem extension, sealant, vent/drain and shall have butt welded ends as per relevant specification/ data sheet

**12.4** Flange dimensions and face finish of flanged end valves shall conform to clause 9.0 of this specification.

**12.5** Butt welding ends of Butt Welded valves shall conform to ASME B 16.25.

**12.6** Face to face and end to end dimensions shall conform to applicable standards.

**12.7** Valves shall conform to following standards unless specified otherwise in piping material specification for various piping class.

#### **Flanged/ Socket Welded end valves (1½”and below) Design STD. for Process lines**

Gate Valves	:	API 602
Globe Valves	:	BS 5352
Ball Valves	:	BS 5351
Plug Valves	:	B55353

#### **Flanged/ Butt Welded end valves (2”and above) Design STD. for Process Lines**

Gate Valves	:	API 6D
Globe Valves	:	BS
1873 Check Valves	:	API 6D
Ball Valves	:	API 6D
Plug		

Valves : API 6D

**12.8** All manual operated valves shall be provided with wrench / hand wheel or gear operator as specified here in below.

**12.8.1 Gate Valves**

For ANSI class 150 and 300 : Hand wheel operated for size  $\leq 12$ " NB.  
Gear operated for size  $\geq 14$ " NB.

For ANSI class 600 : Hand wheel operated for size  $\leq 10$ " NB.  
Gear operated for size  $\geq 12$ " NB

**12.8.2 Globe Valves**

For ANSI class 150, 300, 600 and 900 – Hand Wheel operated for all size

**13.0 QUICK OPENING END CLOSURE**

Quick opening end closure to be installed on scraper traps shall be designed in accordance with Section VIII of ASME Boiler and Pressure Vessel Code and equipped with safety locking devices in compliance with Section VIII, division 1. UG-35.2 of ASME Boiler and Pressure Vessel Code.

**14.0 HYDROTESTING VENTS AND DRAINS**

In terminal piping, high point vents and low point drains required for the purpose of hydrotesting shall be of size 0.75". These vents & drains shall consist of gate valves with blind flange assembly.

**15.0 PIPELINE SPECIALTY ITEMS**

Pipeline specialty items viz, scraper traps, flow tees, insulating joints, LR bends etc. shall be as per specifications attached elsewhere.



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**PIPING MATERIAL SPECIFICATION  
(CLASS 300#)**

<b>PIPING CLASS</b>	:	<b>300 #</b>
<b>BASE MATERIAL</b>	:	<b>CARBON STEEL</b>
<b>CORROSION ALLOWANCE</b>	:	<b>1.5 MM</b>
<b>SPECIAL REQUIREMENT</b>	:	<b>NON IBR</b>
<b>TEMP. (°C)</b>	:	<b>-29 TO 65</b>
<b>OPERATING PRESS. (kg/cm<sup>2</sup>)</b>	:	<b>0 TO 49 Bar</b>

#### **SERVICE**

NON-CORROSIVE PROCESS – FLAMMABLE / NON FLAMMABLE, NON LETHAL– HYDROCARBONS, AMMONIA, STEAM & GAS CONDENSATE (NON– IBR), UTILITIES (WATER, INST, AIR, NITROGEN, CARBON DIOXIDE) AND LUBE OIL BEFORE THE FILTER.

#### **NOTE:**

- ALL VENTS AND DRAINS SHALL BE PROVIDED WITH GATE VALVE WITH BLIND FLANGE ASSEMBLY UNLESS OTHERWISE INDICATED IN P&ID.
- NDT OF WELDS SHALL BE AS FOLLOWS:

RADIOGRAPHY	:	ALL BUTT WELDS	–	100%
MPI	:	SOCKET WELDS	–	100%
- PIPING DESIGN AS PER ASME B 31.8 & OISD 141.
- FLANGES OF SIZE 22” SHALL BE AS PER MSS–SP–44.
- CHARPY V–NOTCH TEST & HARDNESS TEST SHALL BE CONDUCTED FOR PIPE, FITTINGS AND FLANGES.
- ALL BRANCH CONNECTIONS INCLUDING VENT, DRAIN, PRESSURE AND TEMPERATURE CONNECTION SHALL BE AS PER BRANCH CONNECTION TABLE GIVEN ON NEXT PAGE. THE BRANCH DETAILS INDICATED IN APPLICABLE STANDARD SHALL BE IGNORED.







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PIPE	22.000	22.000	10.3	API 5L	API 5L GR.X-52 PSL2	BE, SAW
PIPE	24.000	24.000	11.1	API 5L	API 5L GR.X-52 PSL2	BE, SAW
PIPE	26.000	26.000	11.1	API 5L	API 5L GR.X-52 PSL2	BE, SAW
NIPPLE	00.500	00.750	M	B 36.10	ASTM A 106 GR.B	PBE, SEAMLESS
NIPPLE	01.000	01.500	M	B 36.10	ASTM A 106 GR.B	PBE, SEAMLESS
<b>Flange Group</b>						
FLNG.SW	00.500	01.500	M	B-16.5	ASTM A 105	300, RF/125AARH
FLNG.WN	02.000	16.000	M	B-16.5	ASTM A 105 (CHARPY)	300, RF/125AARH
FLNG.WN	18.000	24.000	M	B-16.5	ASTM A 694 GR. F-52 (CHARPY)	300, RF/125AARH
FLNG.WN	26.000	26.000	M	B-16.5	ASTM A 694 GR. F-52 (CHARPY)	300, RF/125AARH
FLNG.BLIND	00.500	01.500		B-16.5	ASTM A 105	300, RF/125AARH
PLNG.BLIND	02.000	24.000		B-16.5	ASTM A105 (CHARPY)	300, RF/125AARH
PLNG.BLIND	26.000	26.000		B-16.47 A	ASTM A105 (CHARPY)	300, RF/125AARH
FLNG.FIG8	00.500	01.500		B-16.48	ASTM A 105	300, RF/125AARH
FLNG.FIG8	02.000	08.000		B-16.48	ASTM A105 (CHARPY)	300, RF/125AARH
SPCR &BLIND	10.000	24.000		B-16.48	ASTM A105 (CHARPY)	300, RF/125AARH
SPCR &BLIND	26.000	26.000		B-16.48	ASTM A105 (CHARPY)	300, RF/125AARH
<b>Fitting Group</b>						
ELBOW.90	00.500	0.750		B-16.11	ASTM A 105	SW, 6000
ELBOW.90	01.000	1.500		B-16.11	ASTM A 105	SW, 3000
ELBOW.90	02.000	16.000	M	B-16.9	ASTM A 234,GR. WPB CHARPY)	BW, 1.5D
ELBOW.90	18.000	26.000	M	MSS- SP75	MSS-SP75 GR.WPHY-52	BW, 1.5D
ELBOW.45	00.500	00.750		B-16.11	ASTM A 105	SW, 6000
ELBOW.45	01.000	01.500		B-16.11	ASTM A 105	SW, 3000



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ELBOW.45	02.000	16.000	M	B-16.9	ASTM A234, GR. WPB CHARPY)	BW, 1.5D
ELBOW.45	18.000	26.000	M	MSS- SP75	MSS-SP75 GR.WPHY-52	BW, 1.5D
T.EQUAL	00.500	00.750		B 16.11	ASTM A 105	SW, 6000
T.EQUAL	01.000	01.500		B 16.11	ASTM A 105	SW, 3000
T.EQUAL	02.000	16.000	M	B-16.9	ASTM A234,GR.WPB (CHARPY)	BW
T.EQUAL	18.000	26.000	M	MSS- SP75	MSS-SP75 GR.WPHY-52	BW
T.RED	00.500	00.750		B-16.11	ASTM A 105	SW, 6000
T.RED	01.000	01.500		B-16.11	ASTM A 105	SW, 3000
T.RED	02.000	16.000	M, M	B-16.9	ASTM A234,GR. WPB(CHARPY)	BW
T.RED	18.000	26.000	M, M	MSS- SP75	MSS-SP75 GR.WPHY-52	BW
REDUC.CONC	02.000	16.000	M,M	B-16.9	ASTM A234,GR. WPB(CHARPY)	BW
REDUC.CONC	18.000	26.000	M,M	MSS- SP75	MSS-SP75 GR.WPHY-52	BW
REDUC.ECC	02.000	16.000	M,M	B-16.9	ASTM A234,GR. WPB(CHARPY)	BW
REDUC.ECC	18.000	26.000	M,M	MSS- SP75	MSS-SP75 GR.WPHY-52	BW
SWAGE.CONC	00.500	03.000	M,M	BS- 3799	ASTM A 105 (CHARPY)	PBE
SWAGE.ECC	00.500	03.000	M,M	BS- 3799	ASTM A 105 (CHARPY)	PBE
CAP	00.500	00.750		B- 16.11	ASTM A 105	SCRF, 6000
CAP	01.000	01.500		B- 16.11	ASTM A 105	SCRF, 3000
CAP	02.000	16.000	M	B- 16.9	ASTM A234,GR. WPB (CHARPY)	BW
CAP	18.000	26.000	M	MSS- SP75	MSS-SP75 GR.WPHY-52	BW
PLUG	00.500	00.750		B 16.11	ASTM A 105	SCRM, 6000



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PLUG	01.000	01.500		B 16.11	ASTM A 105	SCRM, 3000
CPLNG.FULL	00.500	00.750		B- 16.11	ASTM A 105	SW, 6000
CPLNG.FULL	01.000	01.500		B- 16.11	ASTM A 105	SW, 3000
CPLNG-HALF	00.500	00.750		B- 16.11	ASTM A 105	SW, 6000
CPLNG.HALF	01.000	01.500		B- 16.11	ASTM A 105	SW, 3000
CPLNG.LH	00.500	00.750		B- 16.11	ASTM A 105	SW, 6000
CPLNG.LH	01.000	01.500		B- 16.11	ASTM A 105	SW,3000
CPLNG.RED	00.500	00.750		B- 16.11	ASTM A 105	SW, 6000
CPLNG.RED	01.000	01.500		B- 16.11	ASTM A 105	SW, 3000
<b>O' let group</b>						
SOCKOLET	00.500	0.750		MSS- SP97	ASTM A 105	SW, 6000
SOCKOLET	01.000	01.500		MSS- SP97	ASTM A 105	SW, 3000
WELDOLET	02.000	10.000	M, XXS	MSS- SP97	ASTMA 105 (CHARPY)	BW
<b>Valves Group</b>						
VLV.GATE	00.500	01.500		API-602	BODY-ASTM A 105, TRIM- STELLITED, STEM13%CR. STEEL	SW,800, 3000,B-16.11
VLV.GATE	02.000	12.000		API-6D	BODY-ASTM A 216 GR. WCB TRIM-STELLITED, STEM 13% CR. STEEL	FLGD, 300, B- 16.5, RF/ 125 AARH
VLV.GLOBE	00.500	01.500		BS-5352	BODY-ASTM A 105,TRIM- STELLITED, STEM13%CR STEEL	SW,800, 3000,B-16.11
VLV.GLOBE	02.000	12.000		BS-1873	BODY-ASTM A 216 GR. WCB TRIM-STELLITED, STEM 13% CR. STEEL	FLGD, 300, B- 16.5, RF/ 125 AARH



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VLV.CHECK	00.500	01.500		BS-5352	BODY-ASTMA 105,TRIM- STELLITED	SW,800, 3000, B- 16.11
VLV.CHECK	2.000	12.000		API -6D	BODY-ASTM A 216 GR. WCB TRIM-STELLITED, STEM 13% CR. STEEL	FLGD, 300, B- 16.5, RF/ 125 AARH
VLV.BALL	00.500	01.500		BS-5351	BODY-ASTM A 105,TRIM- SEAT RPTFE	FLGD, 300, B- 16.5, RF/ 125 AARH
VLV.BALL	02.000	12.000		API-6D	BODY-ASTM A 216 GR. WCC/ A234 GR WPC, TRIM- SEAT AISI 4140+0.003" ENP/ AISI 410	FLGD, 300, B- 16.5, RF/ 125 AARH
VLV.BALL	02.000	02.000		API-6D	BODY-ASTM A 216 GR. WCC/ A234 GR WPC, TRIM- SEAT AISI 4140+0.003" ENP/ AISI 410	BW, 300, B-16.25, RF/ 125 AARH
VLV.PLUG	00.500	01.500		BS-5353	BODY-ASTM A 105, PLUG-A 105 +0.003" ENP	SW,800 3000, B- 16.11
VLV.PLUG	02.000	12.000		API-6D	BODY-ASTM A 216 GR. WCB PLUG-A 216 GR. WCB+0.003" ENP	FLGD, 300, B- 16.5, RF/ 125 AARH
<b>Bolt Group</b>						
BOLT.STUD	00.500	26.000		B18.2	BOLT: 193 GR.B7,NUT: A194 GR. 2H	
<b>Gasket Group</b>						
GASKET	00.500	24.000		B16.20- ANSI B 16.5	SP,WND, SS316+CAF	SPIRAL, 300
GASKET	26.000	26.000		B16.20- ANSIB 16.47A	SP,WND, SS316+CAF	SPIRAL, 300



Bhagyanagar Gas Ltd.

BHAGYANAGAR  
GAS LIMITED

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to automize Odorization Unit at Vijayawada GA  
Bid Document No. BGL/713/2025-26**

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## **STANDARD & SPECIFICATION FOR CARBON STEEL PIPES**



Bhagyanagar Gas Ltd.  
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5.0	INSPECTION & TESTING
6.0	MARKING AND DESPATCH
7.0	GUARANTEE
8.0	HYDROSTATIC TEST

## 1.0 SCOPE OF WORK

- 1.1. This specification forms a part of the tender documents and shall be read in conjunction with the said document.
- 1.2. The scope of work of the Bidder / vendor includes manufacture, inspection & testing, marking, packaging & supply of pipes in accordance with the tentative quantities outlined in the Schedule of Rates.
- 1.3. Bidder / vendor shall quote in strict accordance with the Schedule of Rates their technical requirements and all other enclosures to the tender specifications.
- 1.4. All codes and standards for manufacture, testing, inspection etc. shall be of latest editions.
- 1.5. Bidder / vendor shall quote the unit rate for all the pipes as per the Schedule of Rates. Purchaser reserves the right to increase or decrease the Quantities to be ordered to the successful Bidder / vendor.
- 1.6. Purchaser also reserves the right to order additional quantities during execution of the order based on unit rates and other terms & conditions in the original order.

## 2.0 TECHNICAL REQUIREMENTS FOR PURCHASE OF PIPES

- 2.1. All pipe and their dimensions, tolerance, chemical composition, physical properties, heat treatment, hydrotest and other testing and marking shall conform to the codes and standards specified in the requisition deviation(s), if any, shall be clearly highlighted in the offer.
- 2.2. Test reports shall be supplied for all mandatory tests as per the applicable standards/ these specifications. Test reports shall also be furnished for any supplementary tests as required.
- 2.3. Material test certificates (physical property, chemical composition & heat treatment report) shall also be furnished for the pipes supplied.
- 2.4. Steel made by acid Bessemer process shall not be acceptable. Steel pipe shall be made by open hearth, electric furnace or basic oxygen process.
- 2.5. All longitudinally welded pipes other than IS:3589 should employ only automatic welding. Vendor must confirm the same. However manual welding may be accepted in case the quantity is less. Acceptance shall be decided on quantity only. Vendor shall indicate specifically the technique of welding employed.
- 2.6. Pipe shall be supplied in single or double random length of 4 to 7 and 7 to 14 meters respectively.
- 2.7. Seamless and E.R.W. Pipes shall not have any circumferential seam joint in a random length. However, in case of E.F.S.W pipe, in one random length one welded circumferential seam of same quality as longitudinal weld is permitted which shall be at least 2.5 M. from either

end. The longitudinal seams of the two portions shall be staggered by 90 deg. Single random length in such cases shall be 5 to 7M.

- 2.8. Pipe with screwed ends shall have NPT external taper pipe threads conforming to ANSI B1.20.1 (up to 1.5 in NB) & IS:554 (from 2 in to 6 in NB) Pipe with bevel led ends shall be in accordance with ANSI B-16.25.
- 2.10. Galvanized pipes shall be coated with zinc by hot dip process conforming to IS:4736 / ASTM A 153 or by electro-galvanising.
- 2.11. All austenitic stainless steel pipes shall be supplied in solution annealed condition.
- 2.12. Inter granular corrosion test for stainless steel
- 2.12.1 For all austenitic stainless steel pipes intergranular corrosion test shall have to be conducted as per following :

ASTM A 262 practice "B" with acceptance criteria of "60 mils/year (max.)"

OR

ASTM A 262 practice "E" with acceptance criteria of "NO CRACKS AS OBSERVED FROM 20X MAGNIFICATION" & microscopic structure to be observed from 250X magnification".

- 2.12.2 When specifically asked for in Schedule of Quantities for high temperature application of some grades of austenitic stainless steel (e.g. SS 309, 310, 316, 316H etc.) ASTM A 262 practice "C" with acceptance criteria of "15 mils / year (max.)" shall have to be conducted.
- 2.12.3 For the IGC test as described in 2.12.1 & 2.12.2 , two sets of samples shall be drawn from each solution annealing lot, one set corresponding to highest carbon content and other set corresponding to the highest pipe thickness when testing is conducted as per practice "E" photograph of microscopic structure shall be submitted for record.
- 2.13. All welded pipes indicated as 'CRYO' & 'LT' in schedule of Quantities shall be impact tested as per requirement and acceptance criteria of ASME B 31.3. The impact test temp shall be  $-196^{\circ}\text{C}$ ,  $-80^{\circ}\text{C}$  &  $-45^{\circ}\text{C}$  for stainless steel, 3½" Ni steel and carbon steel respectively unless specifically mentioned otherwise in specifications / schedule of Quantities.
- 2.14. Specified heat treatment for carbon steel and alloy steel & solution annealing for stainless steel pipes shall be carried out after weld repairs, number of weld repairs at same spot shall be restricted to maximum two by approved repair procedure.
- 2.15. **IBR PIPES**
- 2.15.1 Pipes under purview of IBR shall be accompanied with IBR certificates in form IIIA, duly approved and countersigned by IBR authority / local authority empowered by Central Boiler Board of India.

2.15.2 For carbon steel pipes under IBR the chemical composition shall conform to the following: (i)

- |                        |   |                                  |
|------------------------|---|----------------------------------|
| Carbon(Max)            | : | 0.25 %                           |
| (ii) Others (S, P, Mn) | : | As prescribed in IBR regulation. |

The chemical composition as indicated in this clause is not applicable for pipes other than IBR services.

### **3.0 INFORMATION TO BE SUBMITTED WITH THE OFFER**

3.1 Bidder / vendor shall submit with the offer the following:

2.9. Manufacturer's complete descriptive and illustrative catalogue / literature, covering all pipes to be supplied by the CONTRACTOR as per Schedule of Rates.

### **4.0 INFORMATION TO BE SUBMITTED BY SUCCESSFUL BIDDER / VENDOR.**

4.1 Test reports shall be supplied for all mandatory tests as per the applicable code. Test reports shall also be furnished for any supplementary tests as specified in clauses 2.12.1, 2.12.2, 2.12.3 & 2.13.

4.2 Material test certificates (physical property, chemical composition & heat treatment report) of the pipes shall be furnished for the pipes supplied.

4.3 Statutory test certificates, if applicable, shall be submitted.

### **5.0 INSPECTION & TESTING**

Inspection and testing shall be carried out at manufacturer's works as per relevant codes / these specifications, by Purchaser / Consultant.

### **6.0 MARKING AND DISPATCH**

6.1 All pipes shall be marked in accordance with the applicable codes, standards and specifications. In addition the purchase order No. & special conditions like "IBR", "CRYO", "NACE" etc. shall also be marked.

6.2 Pipes under "IBR", "CRYO" & "NACE" shall be painted in red strips, light purple brown strips & canary yellow strips respectively longitudinally throughout the length for easy identification.

6.3 Paint or ink for marking shall not contain any harmful metal or metallic salts such as zinc, lead or copper which causes corrosive attack on heating.

6.4 Pipes shall be dry, clean and free from moisture, dirt and loose foreign materials of any kind.

6.5 Pipes shall be protected from rust, corrosion and mechanical damage during transportation, shipment and storage.

- 6.6 Rust preventive used on machined surfaces to be welded shall be easily removable with a petroleum solvent or shall not be harmful to welding.
- 6.7 Both ends of the pipe shall be protected with the following material: (i)
- |                    |   |                               |
|--------------------|---|-------------------------------|
| Plain end          | : | Plastic Cap                   |
| (ii) Bevel end     | : | Wood, metal or plastic cover  |
| (iii) Threaded end | : | Metal or plastic threaded cap |
- 6.8 End protectors to be used on bevelled ends shall be securely and tightly attached with belt or wire.
- 6.9 Steel end protectors to be used on galvanized pipes shall be galvanized.

## 7.0 GUARANTEE

The CONTRACTOR shall be liable to replace the pipes for any defect/deficiency in design, material manufacture, packing, transport, shipment and performance for 12 months from date of commissioning.

## 8.0 HYDROSTATIC TEST

All pipes shall be hydrostatically tested. The mill test pressure shall be as follows:

### **GROUP 1 (SEAMLESS, ERW & SPIRALWELDED)**

#### **A CARBON STEEL**

S No.	MATERIAL STD	:	TEST PRESSURE
(i)	ASTM A106 GR.B	:	ASTM A 530
(ii)	API 5L GR.B,SEAMLESS	:	API 5L
(iii)	API 5L,E.R.W	:	API 5L
(iv)	API 5L, SPIRAL	:	API 5L
(v)	ASTM A333 GR.3 & 6,SEAMLESS	:	ASTM A530
(vi)	ASTM A333 GR.3 & 6,E.R.W	:	ASTM A530

#### **B SEAMLESS ALLOY STEEL**

S No.	MATERIAL STD	:	TEST PRESSURE
(i)	ASTM A335 GR.P1,P12,P11,P22,P5,P9	:	ASTM A530
(ii)	ASTM A268 TP 405,TP410	:	ASTM A530

#### **C SEAMLESS STAINLESSSTEEL**

S No.	MATERIAL STD	:	TEST PRESSURE
(i)	ASTM A312 GR. TP304 ,304L ,304H, 316, 321, 347	:	ASTM A530 316L, 316H,

#### **D SEAMLESS NICKEL ALLOY**

S No.	MATERIAL STD	:	TEST PRESSURE
(i)	ASTM B161 UNS NO.2200	:	ASTM B161

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(ii)	ASTM B165 UNS NO.4400	:	ASTM B165
(iii)	ASTM A167 UNS NO.6600	:	ASTM B167
(iv)	ASTM A407 UNS NO.8800	:	ASTM B407

**E WELDED NICKEL ALLOY**

S No.	MATERIAL STD	:	TEST PRESSURE
(i)	ASTM B725 UNS NO.2200,4400	:	ASTM B725
(ii)	ASTM B517 UNS NO.6600	:	ASTM B517
(iii)	ASTM B514 UNS NO.8800	:	ASTM B514

**GROUP II (ELECTRIC FUSION WELDED)**

**A CARBON STEEL & ALLOY STEEL (16" & ABOVE) E.F.S.W**

S No.	MATERIAL STD	:	TEST PRESSURE
(i)	API 5L GR.B	:	P=2ST/D ASTM A671
	G.R.CC65,70 (CL32)	:	S=90% OF SMYS ASTM A672
	GR.C60,65,70 (CL 12,22)	:	EXCEPT API 5L GR.B ASTM A671
	GR.CF60,65,70,66 (CL32)	:	=85% OF SMYS FOR ASTM A691
	GR.1/2Cr,1Cr,1-1/4Cr,	:	API 5L GR.B
(iv)	2-1/4Cr,5Cr,9Cr (CL 42)	:	T=NOM.WALL THK. D=O.D OF PIPE

**B STAINLESS STEEL (2" TO 6")**

S No.	MATERIAL STD	:	TEST PRESSURE
(i)	ASTM A312, TP304, 304L, 304H, 316, 316L,	:	TABLE-1 316H, 321, 347

**C STAINLESS STEEL (8" & ABOVE) E.F.S.W**

S No.	MATERIAL STD	:	TEST PRESSURE
(i)	ASTM A358 TP304, 304L, 304H, 316, 347 (CL 1,3,4)	:	P=2ST/D 316L, 316H, 321, S=85% OF SMYS T=NOM.WALL THK. D=O.D OF PIPE
(ii)	-Do- (CL 2 & 5)	:	SAME AS ABOVE EXCEPT S = 72% OF SMYS

**GROUP III (CARBON STEEL PIPES TO IS STD.)**

S No.	MATERIAL STD	:	TEST PRESSURE
(i)	IS 1239	:	IS 1239
(ii)	IS 3589	:	IS 3589



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**Table-1**

**HYDROSTATIC TEST PR. IN Kg/cm<sup>2</sup>**

MAT1 : MATERIAL IS ASTM A312 TP304/316/321/304H WELDED.  
MAT2 : MATERIAL IS ASTM A312 TP304L/316L WELDED.

	10S		40S		80S	
	MAT1	MAT2	MAT1	MAT2	MAT1	MAT2
2"	100	80	155	130	230	190
3"	80	60	155	130	230	190
4"	80	50	155	130	230	190
6"	65	35	90	75	155	130



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**STANDARD SPECIFICATION  
FOR  
FABRICATION AND ERECTION OF  
PIPING**



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**Abbreviations:**

PMI	:	Positive Material Identification
NDT	:	Non-Destructive Testing
P&ID	:	Process and Instrumentation Diagram
A.S.	:	Alloy Steel
C.S.	:	Carbon Steel
C.I.	:	Cast Iron
S.S.	:	Stainless Steel
LTCS	:	Low Temperature Carbon Steel
NACE	:	National Association of Corrosion Engineers



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## 1.0 SCOPE

This specification covers general requirements of fabrication and erection of above ground and trench piping systems at site. The specification covers the scope of work of contractor, basis of work to be carried out by contractor and standards, specifications and normal practice to be followed during fabrication and erection by the contractor.

## 2.0 SCOPE OF WORK OF CONTRACTOR

Generally, the scope of work of contractor shall include the following:

**2.1** Transportation of required piping materials (as described in Cl.2.1.1), pipe support (material as described in Cl. 2.3) and all other necessary piping materials from Owner's storage point or contractor's storage point (in case of contractor's scope of supply) to work site/ shop including raising store requisitions for issue of materials in the prescribed format & maintaining an account of the materials received from Owner's stores.

**2.1.1** Piping materials include the following but not limited to the same.

- a. Pipes (All sizes and schedule)
- b. Flanges (All sizes, types & Pressure ratings).
- c. Fittings (All sizes, types and schedule)
- d. Valves (All sizes, types and Ratings)
- e. Gaskets (All sizes, types & Ratings)
- f. Bolts, Nuts or M/C Bolts (All types)
- g. Expansion Joint/Bellows (All types)
- h. Specialty items like online filters, ejectors, sample coolers, steam traps, strainers, air traps etc.
- i. Online instruments like control valve, orifice flange, rotameter, safety valves etc.

**2.2** Shop & field fabrication and erection of piping in accordance with documents listed under Cl.3.0 i.e. 'BASIS OF WORK' including erection of all piping materials enumerated above.

**2.3** Fabrication and erection of pipe supports like shoe, saddle, guide, stops, anchors, clips, cradles, hangers, turn buckles, supporting fixtures, bracket cantilevers, struts, teeposts including erection of spring supports and sway braces.

- 2.3.1 Fabrication of piping specials like special radius bends, reducers, mitres etc.
- 2.3.2 Fabrication of plain and threaded nipples from pipes as required during erection.
- 2.3.3 Fabrication of swage nipples as and when required.
- 2.3.4 Fabrication of odd angle elbow like 60°, 30° or any other angle from 90/45° elbows as and when required.
- 2.3.5 Fabrication of flange, reducing flange, blind flange, spectacle blinds as and when required.
- 2.3.6 Fabrication of stub-in connection with or without reinforcement.
- 2.3.7 Grinding of edges of pipes, fittings, flanges etc. to match mating edges of uneven/ different thickness wherever required.
- 2.4 Modifications like providing additional cleats, extension of stem of valve, locking arrangement of valves etc. as and when required.
- 2.5 Preparation of Isometrics, bill of materials, supporting details of all NON-IBR lines upto 2- ½” within the unit battery limit and get subsequent approval from Engineer-in-Charge as and when called for.
- 2.6 Obtaining approval for drawings prepared by contractor from statutory authority, if required.
- 2.7 Spun concrete lining of the inside of pipes 3” NB & above including fittings and flanges as required in accordance with specification.
- 2.8 Rubber lining inside pipes, fittings, flanges as and when required, in accordance with specification.
- 2.9 Radiography, stress relieving, dye penetration, magnetic particle test etc. as required in specification.
- 2.10 Performing PMI using alloy analysers as per ‘Standard Specification for Positive Material Identification at Construction Sites.
- 2.11 Casting of concrete pedestals and fabrication & erection of small structures for pipe supports including supply of necessary materials.
- 2.12 Providing insert plates from concrete structures and repair of platform gratings around pipe openings.
- 2.13 Making material reconciliation statement and return of Owner’s supply left over materials to Owner’s storage.

- 2.14 Flushing and testing of all piping systems as per standard specification for inspection, flushing and testing of piping systems.
- 2.15 Pickling (as and when applicable) as per standard specification for chemical cleaning of C.S. suction piping of compressors.
- 2.16 Submission of job execution procedure as per standard specification for review and approval of Engineer-in-charge covering all above activities.

### **3.0 BASIS FOR WORK**

- 3.1 The complete piping work shall be carried out in accordance with the following
  - 3.1.1 “Approved for Construction” drawings and sketches issued by BGL to the Contractor - Plans and/ or Isometrics.
  - 3.1.2 “Approved for Construction” drawings and sketches issued by Turn-key bidders to the Contractor - Plans and/or Isometrics.
  - 3.1.3 Approved Process licensors standards and specifications.
  - 3.1.4 Drawings, sketches and documents prepared by contractor duly approved by Engineer-in-Charge (such as isometrics of small bore piping and offsite piping etc.)
  - 3.1.5 Approved construction job procedures prepared by Contractor as stipulated in 2.16
  - 3.1.6 BGL specifications/ documents as below:
    - a. Process and Instrument Diagram.
    - b. Piping Materials Specification
    - c. Piping support standards.
    - d. Line list
    - e. Piping support indices (only in offsite), if supports are not shown in plan.
    - f. Standard specification of Non-destructive Requirement of Piping
    - g. Welding specification charts for piping classes
    - h. Standard Specification for Pressure Testing of Erected Piping System
    - i. Welding specification for fabrication of piping

- j. Any other BGL or OTHER specifications attached with Piping Material Specification or special condition of contract (such as standard for cement lining of pipe, standard of jacketed piping, standard for steam tracing, Dimensional Tolerances etc.)
- k. Procedure for storage, preservation and positive identification of materials at Contractors works / stores.

### 3.1.7 Following codes, standards and regulations

- a. ASME B 31.3 : Process Piping
- b. ASME Sec. VIII : Code for unfired pressure vessel.
- c. IBR Regulations :
- d. IS: 823 : Code for procedure for Manual Metal Arc welding of Mild Steel (for structural steel).
- e. NACE Std. : Code for Sour Services material requirements  
MR-0 1-75

Note: All codes referred shall be latest edition, at the time of award of contract.

## 3.2 Deviations

Where a deviation from the “Basis of Work and approved job procedure described above is required or where the basis of work does not cover a particular situation, the matter shall be brought to the notice of Engineer - in - Charge and the work carried out only after obtaining

## 4.0 FABRICATION

### 4.1 Piping Material

Pipe, pipe fittings, flanges, valves, gaskets, studs bolts etc. used in a given piping system shall be strictly as per the “Piping Material Specification” for the “Pipe Class” specified for that system. To ensure the above requirement, all piping material supplied by the Owner / Contractor shall have proper identification marks as per relevant standards / BGL specifications/ Licensors specification. Contractor shall provide identification marks on left over pipe lengths wherever marked up pipe lengths have been fabricated I erected. Material traceability is to be maintained for AS., SS., NACE, LTCS, material for Hydrogen service and other exotic materials by way of transferring heat number, etc. (hard punching) as per approved procedure. This shall be in addition to color coding for all piping materials to avoid mix-up.

For the purpose of common understanding the construction job procedure, to be submitted by the contractor, shall include proposal for

- Maximizing prefabrication, inspection and testing at fabrication shop with minimum field joints.
- Positive material identification, handling, storage & preservation.

## 4.2 Dimensional Tolerances

Dimensional tolerances for piping fabrication shall be as per EIL Standard. The Contractor shall be responsible for working to the dimensions shown on the drawings. However, the Contractor shall bear in mind that there may be variations between the dimensions shown in the drawing and those actually existing at site due to minor variations in the location of equipments, inserts, structures etc. To take care of these variations “Field Welds” shall be provided during piping fabrication. An extra pipe length of 100 mm over and above the dimensions indicated in the drawing may be left on one side of the pipe at each of the field welds. During erection, the pipe end with extra length at each field weld shall be cut to obtain the actual dimension occurring at site. Isometrics, if supplied may have the field welds marked on them. However, it is the responsibility of the Contractor to provide adequate number of field welds. In any case no extra claims will be entertained from the Contractor on this account. Wherever errors or omissions occur in drawings and Bills of Materials it shall be the Contractor’s responsibility to notify the Engineer-in-Charge prior to fabrication or erection.

## 4.3 IBR Piping

**4.3.1** Contractor shall be supplied generally with all drawings for steam piping falling under the purview of Indian Boiler Regulations duly approved by Boiler Inspectorate. The Contractor shall carry out the fabrications, erection and testing of this piping as per requirements of Indian Boiler Regulations and to the entire satisfaction of the local Boiler Inspector. The Contractor shall also get the approval of IBR inspector for all fabrication and testing done by him at his own cost. All certificates of approval shall be in proper JBR forms.

**4.3.2** Approval of boiler inspector on the drawings prepared by the contractor shall be obtained by the contractor at his own cost.

## 4.4 Pipe Joints

The piping class of each line specifies the type of pipe joints to be adopted. In general, joining of lines 2” and above in process and utility piping shall be accomplished by butt-welds. Joining of lines 1-1/2” and below shall be by socket welding/butt welding/threaded joints as specified in “Piping Material Specifications”. However, in piping 1-1/2” and below where socket welding/ threaded joints are specified butt - welds may be used with the approval of Engineer-in-Charge for pipe to pipe joining in long runs of piping. This is only applicable for non-galvanized piping without lining.

Flange joints shall be used at connections to Vessels, Equipment’s, Valves and where required for ease of erection and maintenance as indicated in drawings.

## 4.5 Butt Welded and Socket Welded Piping

End preparation, alignment and fit-up of pipe pieces to be welded, welding, pre-heating, post-heating and heat treatment shall be as described in the welding specification and NDT specification.

#### **4.6 Screwed Piping**

In general, Galvanized piping shall have threads as per IS:554 or ANSI B2.1 NPT as required to match threads on fittings, valves etc. All other piping shall have threads as per ANSI B2.1, tapered unless specified otherwise.

Threads shall be clean cut, without any burrs or stripping and the ends shall be reamed. Threading of pipes shall be done preferably after bending, forging or heat treating operations. If this is not possible, threads shall be gauge checked and chased after welding heat treatment etc.

During assembly of threaded joints, all threads of pipes and fittings shall be thoroughly cleaned of cuttings, dirt, oil or any other foreign matter. The male threads shall be coated with thread sealant and the joint tightened sufficiently for the threads to seize and give a leakproof joint.

Threaded joints to be seal-welded shall be cleaned of all foreign matter, including sealant and made up to full thread engagement before seal welding.

#### **4.7 Flange Connections**

All flange facings shall be true and perpendicular to the axis of pipe to which they are attached. Flanged bolt holes shall straddle the normal centerlines unless different orientation is shown in the drawing.

Wherever a spectacle blind is to be provided, drilling and tapping for the jack screws in the flange, shall be done before welding it to the pipe.

#### **4.8 Branch Connections**

Branch connections shall be as indicated in the piping material specifications. For end preparation, alignment, spacing, fit-up and welding of branch connections refer welding specifications. Templates shall be used wherever required to ensure accurate cutting and proper fit-up.

For all branch connections accomplished either by pipe to pipe connections or by using forged tees the rates quoted for piping shall be inclusive of this work.

Reinforcement pads shall be provided wherever indicated in drawings/ specifications etc.

#### **4.9 Bending**

Bending shall be as per ASME B31.3 except that corrugated or creased bends shall not be used.

Cold bends for lines 1-1/2" and below, with a bend radius of 5 times the nominal diameter shall be used as required in place of elbows wherever allowed by piping specifications. Bending of pipes 2" and above may be required in some cases like that for headers around heaters, reactors etc.

The completed bend shall have a smooth surface, free from cracks, buckles, wrinkles, bulges, flat spots and other serious defects. They shall be true to dimensions. The flattening of a bend, as measured by the difference between the maximum and minimum diameters at any cross-section, shall not exceed 8% and 3% of the nominal outside diameter, for internal and external pressure respectively.

#### **4.10 Forging and forming**

Forging and forming of small bore fittings, like reducing nipples for piping 1-1/2" and below, shall be as per ASME B 31.3.

#### **4.11 Mitre Bends and Fabricated Reducers**

The specific application of welded mitre bends and fabricated reducers shall be governed by the Piping Material Specifications. Generally all 90 deg. mitres shall be 4-piece 3-weld type and 45 deg. mitres shall be 3-piece 2-weld type as per BGL Standard unless otherwise specified. Reducers shall be fabricated as per directions of Engineer-in-Charge. The radiographic requirements shall be as per Material Specifications for process and utility systems and NDT Specification for steam piping under IBR, radiographic requirements of IBR shall be complied with.

#### **4.12 Cutting and Trimming of Standard Fittings & Pipes**

Components like pipes, elbows, couplings, half-couplings etc. shall be cut / trimmed / edge prepared wherever required to meet fabrication and erection requirements, as per drawings and instructions of Engineer-in-Charge. Nipples as required shall be prepared from straight length piping.

#### **4.13 Galvanised Piping**

Galvanised carbon steel piping shall be completely cold worked, so as not to damage galvanised surfaces. This piping involves only threaded joints and additional external threading on pipes may be required to be done as per requirement.

#### **4.14 Jacketed Piping**

The Jacketing shall be done in accordance with BGL Specification or Licensors specification as suggested in material specification or special condition of contract.

Pre-assembly of jacketed elements to the maximum extent possible shall be accomplished at shop by Contractor. Position of jump over and nozzles on the jacket pipes, fittings etc. shall be marked according to pipe disposition and those shall be prefabricated to avoid damaging of inner pipe and obstruction of jacket space. However, valves, flow glasses, in line instruments or even fittings shall be supplied as jacketed.

#### **4.15 Shop Fabrication / Prefabrication**

The purpose of shop fabrication or pre-fabrication is to minimise work during erection to the extent possible. Piping spool, after fabrication, shall be stacked with proper identification marks, so as facilitate their withdrawal at any time during erection. During this period all flange (gasket contact faces) and threads shall be adequately fabricated by coating with a removable rust preventive. Care shall also be taken to avoid any physical damage to flange faces and threads.

#### **4.16 Miscellaneous**

**4.16.1** Contractor shall fabricate miscellaneous elements like flash pot, seal pot, sample cooler, supporting elements like turn buckles, extension of spindles and interlocking arrangement of valves, operating platforms as required by Engineer-in-Charge.

#### **4.16.2 Spun Concrete Lining**

The work of inside spun concrete lining of pipes and specials of diameter 3 and above shall be done as per material specifications and special condition contract.

#### **4.16.3 Fabrication of pipes from plate**

Pipes shall be fabricated at site as and when required as per the specifications attached and the actual Piping Material Specification.

### **5.0 ERECTION**

#### **5.1 Cleaning of Piping before Erection**

Before erection all pre-fabricated spool pieces, pipes, fittings etc. shall be cleaned inside and outside by suitable means. The cleaning process shall include removal of all foreign matter such as scale, sand, weld spatter chips etc. by wire brushes, cleaning tools etc. and blowing with compressed air/or flushing out with water. Special cleaning requirements for some services, if any shall be as specified in the piping material specification or isometric or line list. SS jacketed piping requiring pickling shall be pickled to remove oxidation and discolouring due to welding.

#### **5.2 Piping Routing**

No deviations from the piping route indicated in drawings shall be permitted without the consent of Engineer-in-Charge.

Pipe to pipe, pipe to structure / equipments distances / clearances as shown in the drawings shall be strictly followed as these clearances may be required for the free expansion of piping / equipment. No deviations from these clearances shall be permissible without the approval of Engineer-in-Charge.

In case of fouling of a line with other piping, structure, equipment etc. the matter shall be brought to the notice of Engineer-in-Charge and corrective action shall be taken as per his instructions.

### **5.3 Cold Pull**

Wherever cold pull is specified, the Contractor shall maintain the necessary gap, as indicated in the drawing. Confirmation in writing shall be obtained by the Contractor from the Engineer-in-Charge, certifying that the gap between the pipes is as indicated in the drawing, before drawing the cold pull. Stress relieving shall be performed before removing the gadgets for cold pulling.

### **5.4 Slopes**

Slopes specified for various lines in the drawings / P&ID shall be maintained by the Contractor. Corrective action shall be taken by the Contractor in consultation with Engineer-in-Charge wherever the Contractor is not able to maintain the specified slope.

### **5.5 Expansion Joints/ Bellows**

Installation of Expansion Joints/Bellows shall be as follows:

- 5.5.1** All Expansion joints / Bellows shall be installed in accordance with the specification and Installation drawings, supplied to the Contractor.
- 5.5.2**
- a. Upon receipt, the Contractor shall remove the Expansion Joints/ Bellows from the Case (s) and check for any damage occurred during transit.
  - b. The Contractor shall bring to the notice of the Engineer-in-Charge any damage done to the bellows / corrugations, hinges, tie-rods, flanges / weld ends etc.
  - c. Each Expansion Joint / Bellow shall be blown free of dust! foreign matter with compressed air or cleaned with a piece of cloth.
- 5.5.3**
- a. For handling and installation of Expansion Joints, great care shall be taken while aligning. An Expansion Joints shall never be slinged from bellows corrugations / external shrouds, tie / rods, angles.
  - b. An Expansion Joints / Bellow shall preferably be slinged from the end pipes/ flanges or on the middle pipe.
- 5.5.4**
- a. All Expansion Joints shall be delivered to the Contractor at "Installation length", maintained by means of shipping rods, angles welded to the flanges or weld ends or by wooden or metallic stops.

- b. Expansion Joints stop blocks shall be carefully removed after hydrostatic testing. Angles welded to the flanges or weld ends shall be trimmed by saw as per manufacturer's instructions and the flanges or weld ends shall be ground smooth.

**5.5.5 a.** The pipe ends in which the Expansion Joint is to be installed shall be perfectly aligned or shall have specified lateral deflection as noted on the relevant drawings.

- b. The pipe ends! flanges shall be spaced at a distance specified in the drawings.

**5.5.6** The Expansion Joint shall be placed between the mating pipe ends / flanges and shall be tack welded/bolted The mating pipes shall again be checked for correct alignment.

**5.5.7** Butt-welding shall be carried out at each end of the expansion joint. For flanged Expansion Joint, the mating flanges shall be bolted.

**5.5.8** After the Expansion Joint is installed the Contractor shall ensure that the mating pipes and Expansion Joints are in correct alignment and that the pipes are well supported and guided.

**5.5.9** The Expansion Joint shall not have any lateral deflection. The Contractor shall maintain parallelism of restraining rings or bellows convolutions.

### **5.5.10 Precautions**

- a. For carrying out welding, earthing lead shall not be attached with the Expansion Joint.
- b. The Expansion bellow shall be protected from arc weld spot and welding spatter.
- c. Hydrostatic Testing of the system having Expansion Joint shall be performed with shipping lugs in position. These lugs shall be removed after testing and certification is over.

## **5.6 Flange Connections**

While fitting up mating flanges, care shall be exercised to properly align the pipes and to check the flanges for trueness, so that faces of the flanges can be pulled together, without inducing any stresses in the pipes and the equipment nozzles. Extra care shall be taken for flange connections to pumps, turbines, compressors, cold boxes, air coolers etc. The flange connections to these equipments shall be checked for misalignment, excessive gap etc. after the final alignment of the equipment is over. The joint shall be made up after obtaining approval of Engineer-in-Charge.

Temporary protective covers shall be retained on all flange connections of pumps, turbines, compressors and other similar equipments, until the piping is finally connected, so as to avoid any foreign material from entering these equipments.

The assembly of a flange joint shall be done in such a way that the gasket between these flange faces is uniformly compressed. To achieve this, the bolts shall be tightened in a proper sequence. All bolts shall extend completely through their nuts but not more than 1/4".

Steel to C.I. flange joints shall be made up with extreme care, tightening the bolts uniformly after bringing

flange flush with gaskets with accurate pattern and lateral alignment.

## **5.7 Vents and Drains**

High point vents and low point drains shall be provided as per the instructions of Engineer- in-Charge, even if these are not shown in the drawings. The details of vents and drains shall be as per piping material specifications / job standards.

## **5.8 Valves**

Valves shall be installed with spindle / actuator orientation / position as shown in the layout drawings. In case of any difficulty in doing this or if the spindle orientation / position is not shown in the drawings, the Engineer-in-Charge shall be consulted and work done as per his instructions. Care shall be exercised to ensure that globe valves, check valves, and other uni- directional valves are installed with the “Flow direction arrow “on the valve body pointing in the correct direction. If the direction of the arrow is not marked on such valves, this shall be done in the presence of Engineer-in-Charge before installation.

Fabrication of stem extensions, locking arrangements and interlocking arrangements of valves (if called for), shall be carried out as per drawings/ instructions of Engineer-in- Charge.

## **5.9 Instruments**

Installation of in-line instruments such as restriction orifices, control valves, safety valves, relief valves, rotameters, orifice flange assembly, venturimeters, flowmeters etc. shall form a part of piping erection work.

Fabrication and erection of piping upto first block valve / nozzle / flange for installation of offline Instruments for measurement of level, pressure, temperature, flow etc. shall also form part of piping construction work. The limits of piping and instrumentation work will be shown in drawings / standards / specifications. Orientations / locations of take-offs for temperature, pressure, flow, level connections etc. shown in drawings shall be maintained.

Flushing and testing of piping systems which include instruments mentioned above and the precautions to be taken are covered in flushing, testing and inspection of piping (BGL Stds). Care shall be exercised and adequate precautions taken to avoid damage and entry foreign matter into instruments during transportation, installation, testing etc.

## **5.10 Line Mounted Equipment's / Items**

Installation of line mounted items like filters, strainers,, steam traps, air traps, desuperheaters, ejectors, samples coolers, mixers, flame arrestors, sight glasses etc. including their supporting arrangements shall form part of piping erection work.

## **5.11 Bolts and Nuts**

The Contractor shall apply molycoat grease mixed with graphite powder (unless otherwise specified in piping classes) all bolts and nuts during storage, after erection and wherever flange connections are broken and made-up for any purpose whatsoever. The grease and graphite powder shall be supplied by the Contractor within the rates for piping work.

## 5.12 Pipe Supports

Pipe supports are designed and located to effectively sustain the weight and thermal effects of the piping system and to prevent its vibrations. Location and design of pipe supports will be shown in drawings for lines 3" NB & above for line below 3" NB Contractor shall locate and design pipe supports in line with BGL Stds. and obtain approval of Engineer - in - Charge on drawings prepared by Contractor, before erection. However, any extra supports desired by Engineer-in-Charge shall also be installed.

No pipe shoe or cradle shall be offset unless specifically shown in the drawings.

Hanger rods shall be installed inclined in a direction opposite to the direction in which the pipe moves during expansion.

Preset pins of all spring supports shall be removed only after hydrostatic testing and insulation is over. Springs shall be checked for the range of movement and adjusted if necessary to obtain the correct positioning in cold condition. These shall be subsequently adjusted to hot setting in operating condition. The following points shall be checked after installation, with the Engineer-in-Charge and necessary confirmation in writing obtained certifying that:

- All restraints have been installed correctly.
- Clearances have been maintained as per support drawings.
- Insulation does not restrict thermal expansion.
- All temporary tack welds provided during erection have been fully removed.
- All welded supports have been fully welded.



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## **STANDARD SPECIFICATION FOR SEAMLESS FITTINGS & FLANGES**

**(SIZE UP TO DN 400 mm (16"))**



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## 1.0 SCOPE

This specification covers the minimum requirements for the design, manufacture and supply of following carbon steel flanges and fittings of size upto DN 400 mm (16") to be installed in pipeline systems handling hydrocarbons in liquid or gaseous phase including Liquefied Petroleum Gas (LPG):

- Flanges such as welding neck flanges, blind flanges, spectacle blinds, spacers and blinds etc.
- Seamless fittings such as tees, elbows, reducers, caps, outlets etc.

This specification does not cover the above-mentioned items, which are to be installed in pipeline systems handling sour hydrocarbons (liquid/gas) service as defined in NACE Standard MR-01-75

## 2.0 REFERENCE DOCUMENTS

2.1 Reference has been made in this specification to the latest edition of the following Codes: ASME

B31.4 - Pipeline Transportation System for Liquid Hydrocarbons and Other Liquids ASME

B31.8 - Gas Transmission and Distribution Piping Systems

ASME B16.5 - Pipe Flanges and Flanged Fittings

ASME B16.9 - Factory Made Wrought Steel Butt Welding Fittings ASME B16.11 - Forged Steel Fittings,

Socket Welding and Threaded ASME B16.48 - Steel Line Blanks

ASME Sec VIII/IX - Boiler and Pressure Vessel Code

ASTM A370 - Standard Test Methods and Definitions for Mechanical Testing of Steel Products MSS-SP-

25 - Standard Marking System for Valves, Fittings, Flanges and Unions

MSS-SP-44 - Steel Pipeline Flanges.

MSS-SP-75 - Specification for High Test Wrought Welded Fittings.

MSS-SP-97 - Forged Carbon Steel Branch Outlet Fittings-Socket Welding, Threaded and Butt welding Ends.

2.2 In case of conflict between the requirements of this specification and the requirements of above referred Codes and Standards, the requirements of this specification shall govern.

### 3.0 MANUFACTURER'S QUALIFICATION

Manufacturer who intends bidding for fittings must possess the records of a successful proof test, in accordance with the provisions of ASME B 16.9.

### 4.0 MATERIAL

4.1 The Carbon Steel used in the manufacture of flanges and fittings shall be fully killed. Material for flanges and fittings shall comply the material standard indicated in the Purchase Requisition. In addition, the material shall also meet the requirements specified hereinafter.

4.2 Each heat of steel used for the manufacture of flanges and fittings shall have Carbon Equivalent (CE) not greater than 0.45 calculated from check analysis in accordance with the following formula:

$$CE = C + \frac{Mn}{6} + \frac{Cr + Mo + V}{5} + \frac{Ni + Cu}{15}$$

4.3 For flanges and fittings specified to be used for Gas service or High Vapour Pressure (HVP) liquid service, Charpy V-notch test shall be conducted on each heat of steel. Unless specified otherwise, the Charpy V-notch test shall be conducted at 00 C in accordance with the impact test provisions of ASTM A- 370 for flanges and fittings.

The minimum average absorbed impact energy values of three full-sized specimens shall be 27 joules. The minimum impact energy value of any one specimen of the three specimens analyzed as above shall not be less than 80% of the above mentioned average value.

For flanges and fittings specified to be used for other hydrocarbon service, the Charpy V-notch test requirements as stated above are not applicable, unless required by the specified material standard as a mandatory requirement.

When Low Temperature Carbon Steel (LTCS) materials are specified in Purchase Requisition for flanges and fittings, the Charpy V-notch test requirements of applicable material standard shall be complied with.

4.4 For flanges and fittings, specified to be used for Gas service or High Vapour Pressure (HVP) liquid service, hardness test shall be carried out in accordance with ASTM A 370. Hardness testing shall cover at least 10% per item, per size, per heat, per manufacturing method. A full thickness cross section shall be taken for this purpose and the maximum hardness shall not exceed 248 HV10. For flanges and fittings, specified to be used for other hydrocarbon services, the hardness requirements stated above are not applicable.

4.5 In case of RTJ flanges, the groove hardness shall be minimum 140 BHN.

### 5.0 DESIGN AND MANUFACTURE

- 5.1 Flanges such as weld neck flanges and blind flanges shall conform to the requirements of ASME B16.5.
- 5.2 Spectacle blind and spacer & blind shall conform to the requirements of ASME B16.48.
- 5.3 Fittings such as tees, elbows, reducers, etc. shall be seamless type and shall conform to ASME B16.9 for sizes DN 50 mm (2") and above and ASME B16.11 for sizes below DN 50 mm (2").
- 5.4 Fittings such as weldolets, sockolets, nippolets, etc. shall be manufactured in accordance with MSS-SP-97.
- 5.5 Type, face and face finish of flanges shall be as specified in Purchase Requisition.
- 5.6 Flanges and fittings manufactured from bar stock are not acceptable.
- 5.7 All butt weld ends shall be bevelled as per ASME B16.5/ ASME B16.9/MSS-SP-97 as applicable.
- 5.8 Repair by welding on flanges and fittings is not permitted.

## 6.0 INSPECTION AND TESTS

- 6.1 The Manufacturer shall perform all inspections and tests as per the requirement of this specification and the relevant codes, prior to shipment at his works. Such inspections and tests shall be, not but limited to the following:
  - 6.1.1 All flanges and fittings shall be visually inspected. The internal and external surfaces of the fittings shall be free from any strikes, gauges and other detrimental defects.
  - 6.1.2 Dimensional checks shall be carried out on finished products as per ASME B16.5 for flanges, ASME B16.48 for spacers and blinds and ASME B16.9/ MSS-SP-97 as applicable for fittings and as per this specification.
  - 6.1.3 Chemical composition and mechanical properties shall be checked as per relevant material standards and this specification, for each heat of steel used.
  - 6.1.4 All finished wrought weld ends subject to welding in field, shall be 100% tested for lamination type defects by ultrasonic test. Any lamination larger then 6.35 mm shall not be acceptable.
- 6.2 Purchaser's Inspector reserves the right to perform stage wise inspection and witness tests, as indicated in clause 6.1 of this specification at Manufacturer's Works prior to shipment. Manufacturer shall give reasonable notice of time and shall provide, without charge, reasonable access and facilities required for inspection, to the Purchaser's Inspector.

Inspection and tests performed/ witnessed by Purchaser s Inspector shall in no way relieve the Manufacturer's obligation to perform the required inspection and tests.

## 7.0 TEST CERTIFICATES

Manufacturer shall furnish the following certificates:

- a) Test certificates relevant to the chemical analysis and mechanical properties of the materials used for manufacture of flanges and fittings as per relevant standards and this specification.
- b) Test Reports on non destructive testing.
- c) Certificates for each fitting stating that it is capable of withstanding without leakage a test pressure, which results in a hoop stress equivalent to 100 % of the specified minimum yield strength for the pipe with which the fitting is to be attached without impairment of serviceability.



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## **8.0 PAINTING, MARKING AND SHIPMENT**

- 8.1** After all inspection and tests required have been carried out; all external surfaces shall be thoroughly cleaned to remove grease, dust and rust and shall be applied with standard mill coating for protection against corrosion during transit and storage. The coating shall be easily removable in the field.
- 8.2** Ends of all fittings and weld neck flanges shall be suitably protected to avoid any damage during transit. Metallic or high impact plastic bevel protectors shall be provided for fittings and flanges. Flange face shall be suitably protected to avoid any damage during transit.
- 8.3** All flanges and fittings shall be marked as per applicable dimension/manufacturing standard.

## **9.0 DOCUMENTATION**

- 9.1** Prior to shipment, the Manufacturer shall submit six copies of the test certificates as listed in clause 7.0 of this specification.
- 9.2** All documents shall be in English Language only.



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## **TECHNICAL NOTES FOR BUTT WELDED, SOCKET WELDED AND SCREWED FITTINGS**

## TECHNICAL NOTES FOR BUTT WELDED, SOCKET WELDED AND SCREWED FITTINGS

### 1.0 GENERAL

- 1.1** Chemical composition, physical properties, tests, dimensions and tolerances, heat treatment and marking shall conform to the applicable latest codes / standards / specifications as specified in the material requisition (MR). Any deviation shall be highlighted on a separate sheet by the vendor in the quotation itself.
- 1.2** Test reports shall be supplied for all mandatory tests as per the material specifications. Test reports shall also be furnished for any supplementary tests as specified in the MR, Clauses 1.7.8, 1.9, 1.10 & 1.11. Material test certificates (physical properties, chemical composition & heat treatment report) shall also be furnished for fittings supplied.
- 1.3** All fittings shall be seamless in construction unless otherwise specified. If fittings are specified as welded, the same shall conform to Clause 1.7. Seamless fittings can be supplied in place of welded fitting but with maximum negative tolerance of 0.3mm (max.) on wall thickness. Welded fittings shall not be acceptable in place of seamless fittings.
- 1.4** Outside diameters and wall thickness (unless otherwise mentioned) of butt welded fittings shall be in accordance with ASME B36.10 and ASME B36.19 as applicable.
- 1.5** For reducing butt weld fittings having different wall thicknesses at each end, the greater wall thickness of the fitting shall be employed and inside bore at each end shall be matched with the specified inside diameter.
- 1.6** Bevelled ends for all fittings shall conform to ASME B16.25. Contour of bevel shall be as follows:

Material	Wall Thickness	Wall Contour
Carbon Steel (Except Carbon Low Temp. Steel)	Upto 22 mm	Figure 2 Type A
	> 22 mm	Figure 3 Type A
Alloy Steel, Stainless Steel & Low Temp. Carbon Steel	Upto 10 mm	Figure 4
	> 10 mm & Upto 25 mm	Figure 5 Type A
	>25 mm	Figure 6 Type A

### 1.7 Welded Fittings:

- 1.7.1** All welded fittings shall be double welded. Inside weld projection shall not exceed 1.6 mm. Welds shall be ground smooth at least 25 mm from the ends.

- 1.7.2 For fittings made out of welded pipe, the welded pipe shall be double welded type & shall be manufactured with the addition of filler metal.
- 1.7.3 Welded tees shall not be of fabricated (stub-in) type.
- 1.7.4 All welded fittings shall be normalised & 100% radiographed by X-ray on all welds made by fitting manufacturers & also on the parent materials.
- 1.7.5 Welded pipes employed for manufacture of fittings shall be made by automatic welding only.
- 1.7.6 All welded carbon steel, alloy steel & stainless steel fittings shall have maximum negative tolerance of 0.3 mm.
- 1.7.7 Specified heat treatment for carbon steel & alloy steel fittings shall be carried out again after weld repairs.
- 1.7.8 Irrespective of the material code requirement, all welded fittings indicated in the MR as “Cryo”& “LT” shall meet impact test requirements of ASME B31.3. The impact test temperature shall be -196 °C & -45 °C for stainless steel & carbon steel respectively unless specifically mentioned otherwise in the MR.

## **1.8 Stainless Steel Fittings:**

- 1.8.1 All stainless steel fittings shall be supplied in solution heat treated condition.
- 1.8.2 Solution annealing for stainless steel fittings shall be carried out again after weld repairs.
- 1.8.3 For all stainless steel fittings Inter Granular Corrosion (IGC) test shall have to be conducted as per the following:

ASTM A 262 Practice “B” with acceptance criteria of “60 mils/year (max.)”.

Or

ASTM A 262 Practice “E” with acceptance criteria of “no cracks as observed from 20X magnification” & “microscopic structure to be observed from 250X - magnification

- 1.8.4 When specifically asked for in MR for high temperature application of some grades of austenitic stainless steel (e.g. SS309, 310, 316, 316H etc.) ASTM A 262 Practice “C” with acceptance criteria of “15 mils/year” shall have to be conducted.
- 1.8.5 For the IGC test as described in Clauses 1.8.3 & 1.8.4, two sets of samples shall be drawn from each solution treatment lot, one set corresponding to the highest carbon content and other set to the highest fitting thickness. When testing is conducted as per ASTM A 262 Practice “E”, photograph of microscopic structure shall be submitted for record.

- 1.9** Fittings under “NACE” category shall meet the requirements of MR-01-75.
- 1.10** Thickness / schedule lower or higher than specified shall not be accepted.
- 1.11** The gasket contact surfaces of stub ends shall be flat with face finish specified in the requisition. Interpretation on the specified face finish is as follows:
- Serrated Finish : Serrations with 250 to 500  $\mu$  in AARH Smooth Finish/125 AARH
- : Serrations with 125 to 250  $\mu$  in AARH
- 1.12** Seamless stub ends shall not have any welds on the body.
- 1.13** Galvanised fittings shall be coated with zinc by hot dip process conforming to IS 4736 / ASTM A153.
- 1.14** Threaded ends shall have NPT taper threads in accordance with ASME/ANSI B1.20.1 upto 1.5” NB & IS 554 from 2” to 6” NB.
- 1.15** Unless and otherwise specified in the MR, all socket welded and screwed fittings shall be in accordance with ASME B16.11 to the extent covered in the specification except for unions which shall be in accordance with MSS-SP-83.
- 1.16** Special fittings like weld-o-let, sock-o-let, sweep-o-let etc. which are not covered in ASME, MSS-SP & EIL Standards shall be as per manufacturer’s std. Contours of these fittings shall meet the requirements of ASME B31.3. Manufacturer shall submit drawings / catalogues of these items along with the offer.
- 1.17** Length of all long half couplings shall be 100 mm unless otherwise specified in the MR.
- 1.18** All seamless pipes employed for manufacturing of fittings shall be required to have undergone hydrotest to ASTM A 530. Welded pipes employed for manufacture of fittings shall be tested as given below:

Welded Pipe Employed For Manufacture Of Welded Fittings.	Test Criteria
ASTM A671 Gr. C65,70 (Cl.32) ASTM A672 Gr. C60,65,70 (Cl. 12, 22) ASTM A671 Gr. CF60,65,70,66 (Cl.32) ASTM A691 Gr. ½Cr, 1Cr, 1%Cr, 2’ACr, 5Cr, 9Cr (Cl.42)	P = 2ST/ D S = 90% of SMYS. T Nom. Wall Thickness D = O.D. of Pipe.
API5L ASTM A358 TP 304, 304L, 304H, 318, 318L, 318H, 321, 347 (Cl. 1, 3, 4)	P= 2ST/D S = 85% of SMYS. T = Nom. Wall Thickness D = O.D. of Pipe.



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ASTM B725	ASTM B725
ASTM B517	ASTM B517
ASTM B514	ASTM B514

**1.19** The bevel ends of all butt weld fittings shall undergo 100% MP/ DP test.

**1.20** Swage nipples (concentric/eccentric) if specified as pipe materials are acceptable in forging materials (upto 1½”) and wrought fitting materials (above 1½”) also in the corresponding material grades.

**1.21** Abbreviations for ends of swages and nipples shall be as follows:

PBE	:	Plain Both Ends
TBE	:	Threaded Both Ends
TOE	:	Threaded One End
TSE	:	Threaded Small End
TLE	:	Threaded Large End

## **2.0 IBR REQUIREMENTS**

### **2.1 IBR Documentation Required:**

**2.1.1** Fittings under the purview of “IBR” (Indian Boiler Regulations) shall be accompanied with original IBR certificate in Form III-C duly approved and countersigned by IBR authority / local authority empowered by Central Boiler Board of India. Photocopy of the original certificate duly attested by the local boiler inspector where the supplier is located is the minimum requirement for acceptance.

**2.1.2** For materials 1¼Cr - ½Mo (ASTM A234 Gr.WP11 & ASTM A234 Gr.WP11W) & 2¼Cr - 1Mo (ASTM A234 Gr.WP22 & ASTM A234 Gr.WP22W), where fittings are manufactured from pipe, Form III-C approved by IBR shall include the tabulation of E<sub>t</sub>, S<sub>c</sub>, & S<sub>r</sub> values for the entire temperature range given below. E<sub>t</sub>, S<sub>c</sub>, & S<sub>r</sub> values shall be such that throughout the temperature range

$$\begin{array}{l} E_t / 1.5 \geq \\ S_r / 1.5 \geq \\ S_c \geq \end{array} \left| \begin{array}{l} \\ \\ S_A \end{array} \right.$$

S<sub>A</sub>: Allowable stress at the working metal temperature.

E<sub>t</sub>: Yield point (0.2% proof stress at the working metal temperature)

S<sub>c</sub>: The average stress to produce elongation of 1 % (creep) in 100000 hrs at the working metal temperature.

S<sub>r</sub> : The average stress to produce rupture in 100000 hrs at the working metal temperature and in no case more than 1.33 times the lowest stress to produce rupture at this temperature.

S <sub>A</sub> (psi)												
Temp(°F)	500	600	650	700	750	800	850	900	950	1000	1050	1100
A 234 Gr.WP11 / A234 Gr.WP11W	21700	20900	20500	20100	19700	19200	18700	13700	9300	6300	4200	2800
A 234 Gr.WP22 / A234 Gr.WP22W	17900	17900	17900	17900	17900	17800	14500	12800	10800	7800	5100	3200

Note: S<sub>A</sub> values given above are from ASME B31.3-1996. Values shall be as per the latest edition prevailing.

- 2.2** For carbon steel fittings described “IBR” chemical composition shall conform to the following: Carbon (max)
- : 0.25 %
- Others (S, P, Mn) : As prescribed in IBR regulations The above composition is not valid for non-IBR fittings.

### **3.0 MARKING AND DESPATCH**

- 3.1** Each fitting shall be legibly and conspicuously stamped in accordance with the requirements of applicable standards along with special condition like “IBR”, “Cryo”, “NACE” etc.
- 3.2** Steel die marking with round bottom punch may be permitted on body of butt weld CS & lower alloy steel fittings, but for SS & higher alloy steel fittings, the same should be marked by electro-etching only.
- 3.3** Paint or ink for marking shall not contain any harmful metals or metal salts such as Zinc, Lead or Copper which causes corrosive attack on heating.
- 3.4** Fittings shall be dry, clean and free of moisture, dirt and loose foreign materials of any kind.
- 3.5** Fittings shall be protected from rust, corrosion and mechanical damage during transportation, shipment and storage.
- 3.6** Rust preventive used on machined surfaces to be welded shall be easily removable with a petroleum solvent and the same shall not be harmful to welding.



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- 3.7 Fittings under “IBR”, “Cryo”, “NACE” shall be painted in red, light purple and canary yellow stripes respectively for easy identification. Width of the stripe shall be 25 mm.
- 3.8 Each end of fitting shall be protected with a wood, metal or plastic cover.
- 3.9 Each size of fitting shall be supplied in separate packagings marked with the purchase order number, item code number, material specification, size and schedule / thickness/ rating.



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## 1.0 SCOPE

- 1.1 This specification covers the minimum requirements for the design, manufacture and supply of the following fittings in size NB 400mm and smaller to be installed in natural gas or liquid hydrocarbon pipelines and piping system.
- 1.1.1 Fittings such as tees, elbows, caps etc. shall conform to the requirement of MSS-SP-75, latest edition. Dimension standard for screwed/ SW fittings shall be as per ANSI B16.11.
- 1.2 All requirements contained in the above standards shall be fully valid unless cancelled, replaced or amended by more requirements as stated in this specification.

This specification does not cover the above-mentioned items, which are to be installed in pipeline handling sour hydrocarbon (liquid/ gas) service as defined in NACE standard MR-0175-98.

## 2.0 REFERENCE DOCUMENTS

Reference has also been made in this specification to the latest edition of the following codes, standards and specifications :

(i)	ASME B 31.8	:	Gas Transmission and Distribution Piping System
ii)	ASME B 31.4	:	Liquid transportation system for hydrocarbon liquid petroleum gas, anhydrous ammonia and alcohols
iii )	ANSI B 16.25	:	Butt - Welding Ends
iv )	ASME B 16.9	:	Factory made wrought steel butt welding fittings
v)	ASME B 16.11	:	Forged Steel Fittings, Socket Welding and Threaded.
vi )	ASTM A 370	:	Mechanical Testing of Steel Products
vii )	ASTM Part-1	:	Steel Piping, Tubing, Fittings
vii i )	MSS-SP-25	:	Standard Marking System for Valves, Fittings, Flanges and Unions
ix )	MSS-SP-75	:	Specification for High Test Wrought Welding Fittings
x)	MSS-SP-97	:	Forged carbon steel branch outlet fittings - socket welding, threaded and butt welding ends.

- 2.2 In case of conflict between the requirement of MSS-SP-75, above reference documents and this specification, the requirements of this specification shall govern.

### 3.0 MANUFACTURER'S QUALIFICATION

Manufacturer who intends bidding for fittings must possess the records of a successful proof test in accordance with the provisions of MSS-SP-75 and/ or ANSI B16.9/ ANSI B16.11 as applicable. These records shall be submitted at the time of bidding.

### 4.0 MATERIAL

- 4.1 The basic material for fittings shall be as indicated in the Purchase Requisition Additionally, the material shall also meet the requirements specified hereinafter.

Steel used shall be fully killed.

- 4.3 Each heat of steel used for the manufacture of fittings shall have carbon equivalent (CE) not greater than 0.45 calculated from check analysis in accordance with the following formula :

$$CE = C + Mn \frac{\quad}{6} + \frac{Cr + Mo + V}{5} + \frac{Ni + Cu}{15}$$

Carbon contents on check analysis shall not exceed 0.22%.

- 4.4 Unless specified otherwise, Charpy V-notch test shall be conducted for each heat of steel, in accordance with the impact test provisions of ASTM A370 at temperature of 0°C. The average absorbed impact energy values of three full-sized specimens shall be 27 joules.

The minimum impact energy value of any one specimen of the three specimens analyzed as above, shall not be less than 80% of the above-mentioned average value.

- 4.5 Hardness testing shall be carried out by Manufacturer in accordance with applicable ASTM.

### 5.0 DESIGN AND MANUFACTURE

- 5.1 Fittings such as tees, elbows and reducers shall be seamless type and shall conform to ASME B16.9 for sizes 50mm (2") NB and above and ASME B16.11 for sizes below 50mm (2") NB.

- 5.2 Fittings such as weldolet, sockolet, etc shall be manufactured in accordance with MSS-SP-97.

- 5.3 Stub-in or pipe to pipe connection shall not be used in the manufacture of tees. Tees shall be manufactured by forging or extrusion methods. The longitudinal weld seam shall be kept at 90° from the extrusion. Fittings shall not have any circumferential joints.

5.4 All butt weld ends shall be bevelled as per ASME B16.25.

5.5 Repair by welding on parent metal of the fittings is not allowed.

## **6.0 INSPECTION AND TESTS**

6.1 The manufacturer shall perform all inspections and tests as per the requirement of this specification and the relevant codes, prior to shipment at his works. Such inspections and tests shall be, not but limited to the following :

6.1.1 Visual inspection.

6.1.2 Dimensional checks as per MSS-SP-75 for fittings/ applicable standards.

6.1.3 Chemical composition, mechanical properties and hardness examination.

6.1.4 All finished wrought weld ends shall be 100% ultrasonically tested for lamination type defects. Any lamination larger than 6.35mm shall not be acceptable.

6.1.5 All other tests not specifically listed but are required as per applicable standard/ specification.

6.2 Purchaser's Inspector may also perform stage-wise inspection and witness tests as indicated in clause 6.1 at Manufacturer's work prior to shipment. Manufacturer shall give reasonable notice of time and shall provide without charge reasonable access and facilities required for inspection to the Purchaser's Inspector.

Inspection and tests performed/ witnessed by the Purchaser's Inspector shall in no way relieve the Manufacturer's obligation to perform the required inspection and tests.

## **7.0 TEST CERTIFICATES**

Manufacturer shall produce the certificates (in original) for all, including, but not limited to, the following tests.

- (a) Certificates of chemical analysis and mechanical properties of the material used for construction as per this specification and relevant standards.
- (b) Certificates of required non-destructive tests inspections.
- (c) Certificates of all other tests as required in this specification.
- (d) In case any of the said certificates is not available during the final test, the supply shall be considered incomplete.

## **8.0 PAINTING, MARKING AND SHIPMENT**

- 8.1 All fittings shall be marked as per MSS–SP–25.
- 8.2 All loose material and foreign material i.e. rust, grease, etc. shall be removed from the inside and outside of the fittings.
- 8.3 Ends of all fittings shall be suitably protected to avoid any damage during transit. Metallic bevel protectors shall be used for fittings of size 18" and larger. Each item shall be marked with indelible paint with the following data:–
- (a) Manufacturer marking
  - (b) Material Specification
  - (c) Size & Sch.
  - (d) Heat No
- 8.4 Package shall be marked legibly with suitable marking ink to indicate the following : (a)
- Order Number
  - (b) Package Number
  - (c) Manufacturer's Name
  - (d) Type of Fitting
  - (e) Size (inches) and Wall Thickness (mm)

## **9.0 WARRANTY**

Purchaser will be reimbursed by Manufacturer for any fitting furnished on this order that fails under field hydrostatic test if such failure is caused by a defect in the fitting which is outside the acceptance limits of this specification. The reimbursement cost shall include fitting, labour and equipment rental for finding, excavation, cutting out and installation of replaced fitting in position. The field hydrostatic test pressure will not exceed that value which will cause a calculated hoop stress equivalent to 100% of specified minimum yield strength for the pipe with which the fitting is to be attached without impairing its serviceability.

## **10.0 DOCUMENTATION**

- 10.1 All documents shall be in English Language.
- 10.2 At the time of bidding bidder shall submit the following documents :–
- (a) Reference list of previous supplies of similar fittings of similar specification.

- (b) Clause wise list of deviation from this specification, if any.
  - (c) Brief description of the manufacturing and quality control facilities of the Manufacturer's work.
  - (d) Manufacturer's qualification requirement as per section 3.0 of this specification.
  - (e) Quality Assurance Plan (QAP).
- 10.3 Within three weeks of placement of order, the manufacturer shall submit four copies of method of manufacture and quality control procedure for raw material and finished product.
- Once the approval has been given by Purchaser, any change in material, method of manufacture and quality control procedure shall be notified to Purchaser whose approval in writing of all changes shall be obtained before the fittings are manufactured.
- 10.4 Within four weeks from the approval date, Manufacturer shall submit six copies of the approved documents as stated in Para 10.3 of this specification.  
Prior to shipment, Manufacturer shall submit six copies of test certificates as listed in Para 7.0 of this specification.



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10.0	GUARANTEE

## 1.0 SCOPE

This specification covers the requirements for the design, manufacture and supply of carbon steel flanges, to be installed in pipeline system handling natural gas and hydrocarbon liquid. This specification does not cover flanges which are to be installed in pipeline system handling sour hydrocarbon (liquid/gas) service as defined in NACE standard MR-0175-98.

## 2.0 REFERENCE DOCUMENTS

Reference has been made in this specification to the latest edition of the following codes, standards and specification :

(i)	ASME B	:	Gas Transmission and Distribution Piping System
)	31.8		
(i	ASME B	:	Liquid transportation system for hydrocarbon liquid petroleum gas, anhydrous ammonia and alcohols
)	31.4		
(i	ANSI B	:	Specification for Flanges
ii	16.5		
)			
(i	MSS-SP-44	:	Steel Pipeline Flanges
v			
)			
(	ASTM	:	Mechanical Testing of Steel Products
v	A370		
)			
(	ASTM	:	Specification for Forgings Carbon Steel
vi	A105		
)			
(	API 590	:	Steel line blanks
vi			
i)			
(	MSS-SP-	:	Standard marking system for valves, fittings, flanges and unions.
vi	25		
ii			
)			

In case of conflict between the requirement of this specification and that of above referred documents, the requirements of this specification shall govern.

## 3.0 MANUFACTURER'S QUALIFICATION

Manufacturer who intends bidding for flanges must possess the records of a successful proof test for flanges in accordance with the provisions of relevant ANSI/ MSS Standards. These records shall be submitted at the time of bidding.

## 4.0 MATERIAL

4.1 The basic material for fittings shall be as indicated in the Purchase Requisition Additionally, the material shall also meet the requirements specified hereinafter.

- 4.2 Steel used shall be fully killed.
- 4.3 Each heat of steel used for the manufacture of flanges shall have carbon equivalent (CE) not greater than 0.45 calculated from check analysis in accordance with the following formula :

$$CE = C + \frac{Mn}{6} + \frac{Cr + Mo + V}{5} + \frac{Ni + Cu}{15}$$

Carbon contents on check analysis shall not exceed 0.22%.

- 4.4 Unless specified otherwise, Charpy V-notch test shall be conducted for each heat of steel, in accordance with the impact test provisions of ASTM A370 at temperature of 0°C. The average absorbed impact energy values of three full-sized specimens shall be 27 joules.

The minimum impact energy value of any one specimen of the three specimens analysed as above, shall not be less than 80% of the above mentioned average value.

- 4.5 Hardness testing shall be carried out by Manufacturer in accordance with applicable ASTM.

## 5.0 DESIGN AND MANUFACTURE

- 5.1 Flanges such as welding neck flanges and blind flanges shall conform to the requirements of ASME B16.5. Spectacle blind, spacer and blind shall conform to API 590.
- 5.2 Type, face and face finish of flanges shall be as specified in Purchase Requisition.
- 5.3 All butt weld ends shall be bevelled as per ASME B16.25.
- 5.4 Repair by welding on flanges is not allowed.
- 5.5 Flanges shall be of forged construction and designed and manufactured in accordance with relevant ANSI / MSS Standards.

## 6.0 INSPECTION AND TESTS

- 6.1 The Manufacturer shall perform all inspection and tests as per the requirements of this specification and the relevant codes at his works. Such inspection and tests shall be, but not limited to the following :
- 6.1.1 All flanges shall be visually inspected.
- 6.1.2 Dimensional check
- 6.1.3 Chemical composition and mechanical properties shall be checked as per relevant material specification.
- 6.1.4 All other test not specifically listed but are required as per applicable standard/ specification.
- 6.1.5 All flanges 12" NB, 300 Class and above should be ultrasonically tested.
- 6.2 Purchaser's Representative shall also perform stage-wise inspection and witness tests as indicated in para 6.1 at manufacturer's works. Manufacturer shall give reasonable notice and shall provide without charges reasonable access and facilities required for inspection, to the Purchaser's Representative.

- 6.3 Inspection and tests performed/ witnessed by Purchaser's Representative shall in not any way relieve the Manufacturer's obligation to supply flanges as per this specification.

## **7.0 TEST CERTIFICATES**

Manufacturer shall submit following certificates to purchaser's representative :

- (a) Test certificates relevant to chemical analysis and mechanical properties of the material used for construction as per this specification and relevant standards.
- (b) Test report on ultrasonic inspection.

## **8.0 PAINTING, MARKING AND SHIPMENT**

- 8.1 Flanges surface shall be thoroughly cleaned, freed from rust and grease after all the required tests have been performed and accepted by Purchaser's representative.

Flanges shall be marked with the following data :-

- (i) Manufacturer's Name
  - (ii) Nominal diameter in inches
  - (iii) Rating of the flanges
  - (iv) Material
  - (v) Tag numbers
- 8.3 Flanges shall be suitably protected to avoid any damage during transit and storage.

## **9.0 DOCUMENTATION**

- 9.1 All documents shall be in English Language.

- 9.2 At the time of bidding bidder shall submit the following documents :-

- (a) Reference list of previous supplies of similar specification.
- (b) Clause-wise list of deviation from this specification, if any.
- (c) Manufacturer's qualification requirement as per section 3.0 of this specification.

- 9.3 Within two weeks of placement of order, the manufacturer shall submit four copies of, but not limited to, the following drawings, documents and specifications for approval :-

- (a) Quality Assurance Plan.
- (b) Dimensions of the flanges including tolerances.
- (c) Prior to shipment, the manufacturer shall submit six copies of the test certificates as listed in clause 7.0 of this specification.

## **10.0 GUARANTEE**

Manufacturer shall guarantee that the materials, manufacturing and testing of flanges confirm to the requirement of this specification. Manufacturer shall replace or repair all flanges, which should result



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defective, or fail during testing or do not perform satisfactorily due to sub-standard material and poor workmanship.



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## **TECHNICAL NOTES FOR STUDS, NUTS AND GASKETS (PIPING)**

## **A TECHNICAL NOTES FOR BOLTS AND NUTS**

1. The process of manufacture, heat treatment, chemical and mechanical requirements and marking for all stud bolts, m/c bolts, jack screws and nuts shall be in accordance with the codes/standards and specifications given in the requisition. Deviation (s), if any, shall be clearly highlighted in the quotation. The applicable identification symbol in accordance with the material specification shall be stamped on each bolt and nut.
2.
  - a. Test reports shall be supplied for all mandatory tests as per the relevant material specifications.
  - b. Material test certificate shall also be furnished. (Heat Analysis, Product Analysis and Mechanical Requirement)
3. All bolting shall be as per ANSI B 18.2.1 for studs, M/c bolts and jack screws and ANSI B 18.2.2 for nuts.
4. Threads shall be unified (UNC for 1" dia and 8UN for > 1" dia) as per ANSI B. 1.12 with class 2A fit for studs, M/c bolts and jack screws and class 2B fit for nuts.
5. Stud bolts shall be threaded full length with two heavy hexagonal nuts. Length tolerance shall be in accordance with the requirement of table F2 of Annexure-F of ANSI B 16.5.
6. The nuts shall be double chamfered, semi-finished, heavy hexagonal type and shall be made by the hot forged process and stamped as per respective material specification.
7. Heads of jack screws and m/c bolts shall be heavy hexagonal type. Jack screw end shall be rounded.
8. Each size of studs & m/c bolts with nuts and jack screws shall be supplied in separate containers marked with size and material specifications. 'CRYO' shall be marked additionally in case 'CRYO' is specified in the requisition.
9. All items shall be inspected and approved (stagewise) by BGL inspector or any other agency authorised by BGL.
10. The heat treatment for stud bolts & nuts shall be as per code unless mentioned otherwise.
11. All austenitic stainless steel bolts, nuts, screws shall be supplied in solution annealed condition unless specified otherwise in the material specification.
12. Any additional requirements specified in the requisition shall be fully complied with Stud bolts, m/c bolts, nuts & jack screws shall be impact tested wherever specified in the material specification and also where the material specification is indicated as "CRYO". For S.S. nuts and bolts minimum impact energy absorption shall be 27 Joules and test temperature shall be -196 deg.C unless mentioned otherwise in code. For other materials impact energy and test shall be as per respective code.
13. Bolts/nuts of material of construction B7M/2HM shall be 100% Hardness tested as per supplementary requirement S3 of ASTM A193.
14. When specified as galvanised, the studs, m/c bolts and nuts shall be hot dip zinc coated in accordance with requirements of class C of ASTM A153.

## **B GASKETS : TECHNICAL NOTES**

- B.1 Materials for gaskets shall conform to the codes/ standards and specifications given in the Piping Material Specification.
- B.2 Asbestos filler for spiral wound gaskets shall not have any colour or dye.

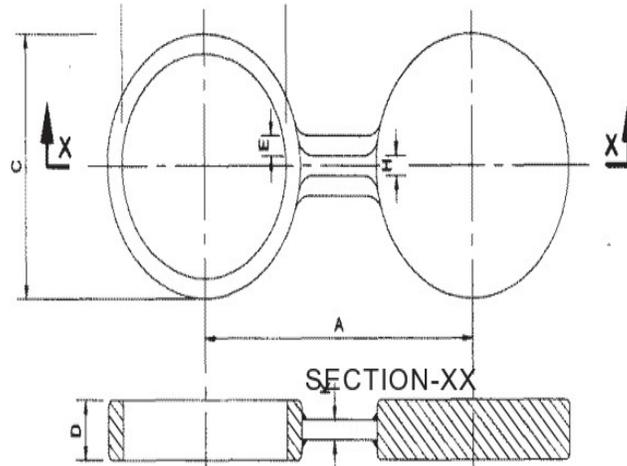


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- B.3 Each size of gaskets shall be supplied in bundles labelled with size, rating and material specifications.
- B.4 All gaskets shall be inspected as follows: -
- (a) Visual Inspection
  - (b) Dimensional Check
- B.5 Material test certificates for all mandatory tests as per the relevant material specifications and other inspection reports shall be furnished before despatch of material.
- B.6 All items shall be inspected and approved (Stage-wise) by Purchaser's Representative.



PIPE SIZE INCH.	150 # FF							300 # FF							600 # FF							PIPE SIZE INCH.
	A	B	C	D	E	H	K	A	B	C	D	E	H	K	A	B	C	D	E	H	K	
1"	106	29	82	5	10	16	4	117	29	70	5	10	19	4	117	29	70	5	10	19	4	1"
1/2"	175	43	82	5	10	16	4	144	43	92	5	10	22	4	144	43	92	7	10	22	4	1/2"
2"	152	56	102	7	10	19	4	162	55	106	7	10	19	4	162	55	106	10	10	19	4	2"
2 1/2"	165	64	121	7	15	19	4	180	64	127	10	15	22	6	180	64	127	15	15	22	6	2 1/2"
3"	187	80	134	7	15	19	4	203	80	148	10	15	22	6	203	80	148	15	15	22	6	3"
4"	225	106	170	8	15	19	6	227	106	170	13	15	22	6	257	106	190	18	15	26	6	4"
6"	279	157	218	11	15	22	6	312	157	248	16	15	22	6	340	157	263	24	15	28	6	6"
8"	338	207	275	15	15	22	6	373	207	305	21	15	28	8	399	207	314	30	15	32	10	8"
10"	410	260	325	18	20	26	8	440	260	350	26	20	29	10	491	260	397	37	20	35	10	10"
12"	483	312	405	19	20	26	8	508	312	410	30	20	32	10	543	312	454	43	20	35	15	12"
14"	575	342	443	22	20	29	10	571	342	480	34	20	32	15	586	342	488	48	20	38	15	14"
16"	582	393	501	28	20	29	10	630	393	536	38	20	35	15	662	393	560	54	20	42	20	16"
18"	629	443	545	28	20	32	10	691	443	582	43	20	35	20	714	443	608	62	20	45	20	18"
20"	689	496	600	30	25	32	15	751	496	650	48	25	35	20	794	496	678	67	25	45	20	20"
24"	802	597	710	37	25	35	15	881	597	772	57	25	42	20	902	597	785	81	25	54	25	24"
26"	804	648	770	38	50	22	30	876	648	830	63	50	22	30	916	648	862	86.5	50	22	50	26"
28"	964	696	830	41	50	22	30	940	696	895	67	50	22	30	963	696	910	93	50	22	50	28"
30"	914	750	882	45	60	22	30	996	750	950	72	50	22	40	1022	750	960	99.5	50	22	50	30"

**NOTES:**

1. THICKNESS 0.15 BASED ON PLATE MATERIAL A 205 GR.C AND WITH 1.5 MM CORROSION ALLOWANCE ON EACH FACE.
2. PROVIDE CONCENTRIC SERRATED FINISH ON BOTH SIDES WITH GROOVES 0.8 MM APART AND DEPTH APPROX 0.4 MM.
3. DIMENSIONS ARE FOR FLANGES TO ANSI B 16.5 FOR SIZES UP TO 24.0, MSS.SP-44 FOR SIZES ABOVE 24 FOR FLANGES 18 TO API 605 CALCULATE DIMENSIONS.
4. THE DIAMETER RATING AND MATERIAL SPEC SHALL BE MARKED AT THE BLIND DISC CENTER.
5. MATERIAL AS PER LINE C SS.
6. JACK SCREW TO BE PROVIDED FOR SPCL. BLINDS 6" AND ABOVE.



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4.4	TESTING PROCEDURE
4.5	COMPLETION OF TESTING
4.6	TEST RECORDS



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**Tender for Procurement of Turbine Flow Meter (Custody Meter) and EVC at Mother Station to get 4-20 mA flow signal to automatize Odorization Unit at Vijayawada GA**  
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## 1.0 SCOPE

This specification covers the general requirements for Inspection, flushing and testing of piping systems. However testing of steam lines falling under IBR shall also be governed by Indian Boiler Regulations.

Flushing and testing of all piping system shall be witnessed by the Engineer-in- Charge.

## 2.0 INSPECTION

During various stage and after completion of fabrication and erection, the piping system shall be inspected by the Engineer- in - Charge to ensure that:

- (i) Proper piping material has been used.
- (ii) Piping has been erected as per drawings and the instruction of the engineer- in charge.
- (iii) All supports have been installed correctly.
- (iv) Test preparations mentioned in this specification have been carried out.

## 3.0 FLUSHING

Flushing of all lines shall be done before pressure testing. Flushing shall be done by fresh potable water or dry compressed air, wherever water flushing is not desirable, to clean the pipe of all dirt, debris or loose foreign materials.

Required pressure of water, flushing shall meet the fire hydrant pressure or utility water pressure. For air flushing the line, system will be pressurised by compressed air at the required pressure, which shall be 50 PSI maximum. The pressure shall then be released by quick opening of a valve, already in the line for this purpose. This procedure shall be repeated as many times as required till the inside of the pipe is fully cleaned.

In line instruments like control valves, orifice plates, rotameters, safety valves and other instruments like thermowells which may interfere with flushing shall not be included in the flushing circuit.

From all permanent strainers the screens/meshes shall be removed before flushing. Screens / meshes shall be re- installed after flushing but before testing.

In case equipment such as column, vessel, exchanger etc. forms part of a piping circuit during flushing, this shall be done with the approval of Engineer- in - Charge. However equipment thus included in the circuit, shall be completely cleaned and dried with compressed air, after flushing is completed.

During flushing discharged water / air shall be drained at the place directed the Engineer- in - Charge. If necessary, proper temporary drainage shall be provided by the contractor.

Care shall be taken during flushing so as not to damage / spoil work of other agencies. Precautions



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shall also be taken to prevent entry of water/foreign matter into equipment, electric motors, instruments, electrical installations etc. in the vicinity of lines being flushed.

The contractor shall carry out all the activities required before, during and after the flushing operation, arising because of flushing requirements, such as but not limited to the following.

Dropping of valves, specials, distance pieces, online instruments and any other piping part before flushing. The flanges to disengage for this purpose shall be envisaged by the contractor and approved by the Engineer-in-Charge. These flanges shall be provided with temporary gaskets at the time of flushing.

After flushing is completed and approved, the valve, distance pieces, piping specials etc. shall be re-installed by the contractor with permanent gaskets. However, flanges of equipment nozzles and other places where isolation is required during testing, only temporary gaskets shall be provided.

Records in triplicate shall be prepared and submitted by the Contractor for each piping system for the flushing done.

#### **4.0 TESTING**

##### **4.1 Extent of testing**

With the exclusion of instrumentation, piping system fabricated or assembled in the field shall be tested irrespective of whether or not they have been pressure tested prior to site welding of fabrication.

To facilitate the testing of piping systems, vessels and other equipments may be included in the system with the prior approval of Engineer-in-charge, if the test pressure specified is equal to or less than that for the vessels and other equipments.

Pumps, compressors and other votary equipments shall not be subjected to field test pressures.

Lines which are directly open to atmosphere such as vents, drains, safety valves, discharge need not be tested, but all joints shall be visually inspected wherever necessary such lines shall be tested by continuous flow of fluid to eliminate the possibility of blockage. However, such lines if provided with block valve shall be pressure tested up to the first block valve.

Seats of all vales shall not be subjected to a pressure in excess of the maximum cold welding pressure of the valve. Test pressure applied to vales shall not be greater than the manufacturer's recommendation nor less than that required by the applicable code. Where desirable set pressure is less than test pressure, test shall be made through an open valve.

Instruments in the system to be tested, shall be excluded from the test by isolation or removal, unless approved otherwise by the Engineer-in-charge. Restrictions, which interfere with filling, venting and drawing such as orifice plates etc., shall not be installed unless testing is complete.

Control valves shall not be included in the test system. Where by-passes are provided test shall be performed through the by-pass end / or necessary spool shall be used in place of the control valve.



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Pressure gauges, which are part of the finished system, but cannot withstand test pressure, shall not be installed until the system has been tested. Where piping systems to be tested are directly connected at the battery limits to piping for which the responsibility tests with other agencies, the piping to be tested shall be isolated from such piping by physical disconnection such as valves or blinds.

#### **4.2 General Requirement / Test preparation for Testing**

Test shall be carried out with permanent gaskets installed unless specified otherwise or instructed by the Engineer-in-charge.

No pressure test shall be carried out against close valve unless approved by the Engineer-in-charge.

The Engineer-in-charge shall be notified in advance by the contractor, of the testing sequence and programme, to enable him to be present for witnessing the test. The contractor shall be fully responsible for making arrangements with the local boiler inspector to witness the tests for steam lines falling under IBR. IBR certificates for these tests shall be obtained in the relevant IBR forms and furnished to the Engineer-in-charge. Before testing, all piping shall be cleaned by flushing to make it free from dust loose scale, debris and other loose foreign materials.

All piping systems to be hydrostatically tested shall be vented at the high points and the systems purged of air before the test pressure is applied.

Wherever in the line any void exists due to any reasons, for absence of control valve, safety valve, check valves etc. it shall be filled with temporary spools.

All joints welded, screwed or flanged shall be left exposed for examination during the test. Before pressuring the lines, each weld joint shall be cleaned by wire brush to free it from rust and any other foreign matter.

Where a system is to be isolated of a pair of companion flanges, a blank shall be inserted between the companion flanges. Minimum thickness of the blank shall be designed in accordance with applicable design code.

Open ends of piping system where blanks cannot be used, such as pumps, compressors, turbines or wherever equipment or pipe spool have been received or disconnected prior to hydrostatic testing, shall be blinded – off by using standard blind flanges of same rating as the piping system being tested.

Pressure gauges used in testing shall be installed as close as possible to the lowest point in the piping system to be tested, to avoid overstressing of any of the lower portion of the system. For longer lines and vertical lines, two or more pressure gauges shall be installed at locations selected by the Engineer-in-charge. For lines containing check valves any of the following alternatives shall be adopted for pressure testing. Wherever possible pressurize up-stream side of valve.

Replace the valve by a temporary spool and re-install the valve after testing.



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Provide blind on valve flanges and test the upstream and downstream of the line separately and remove the blind after testing. All these flanges, temporary gaskets shall be provided during testing and shall be replaced by permanent gaskets subsequently. For check valves in lines 1½” and below, flapper or seat shall be removed during testing (if possible). After completion of testing the flapper/ seat shall be refitted.

Gas lines when hydrostatically tested shall be provided with additional temporary supports during testing as directed by Engineer-in-charge.

Piping which is spring or counter – weight supported shall be temporarily supported, where the weight of the fluid would overload the support. Retaining pins for spring supports shall be removed only after testing is completed and test fluid is completely drained.

When testing any piping system, air or steam of approximately 2 kg/cm<sup>2</sup> (g) may be used as preliminary test to detect missing gaskets etc. as this avoids the necessity of purging the gas to make repairs. However, this method may not be used for this purpose, if the steam temperature is more than the design temp. of the line.

For jacketed pipes, testing of core pipes shall be done on individual pieces where the pipe is continuously packed, before it is jacketed. The outer jacket shall be tested separately as a system for piping with discontinuous jacketing; the core pipe and the jacket shall be tested as separate system.

### **4.3 Testing Modes, Test pressure and Test Pressure Gauges**

#### **4.4.1 Testing Modes**

In general all pressure test shall be hydrostatic using iron free water, which is clean and free of silt. Maximum chlorine content in water for hydrostatic testing for M.S. piping shall be 15-20 ppm. Air shall be used for testing only if water would cause corrosion of the system or overloading of supports etc. in special cases as directed by Engineer-in-charge.

Where air / water tests are undesirable substitute fluid such as gas, oil, methanol etc. shall be used as the testing medium, with due consideration to the hazards involved. These test fluids shall be specified in the line list given to the contractor.

#### **4.4.2 Test Pressure**

The hydrostatic/pneumatic test pressure shall be as indicated in the line list or as per the instruction of Engineer-in-charge.

The selection of the piping system for one individual test shall be based on the following :-Test pressure required as per line list.

Maximum allowable pressure for the material of construction of piping depending upon the above requirements and based on construction progress, maximum length of piping shall be included in each test.



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#### **4.4.3 Test Pressure Gauge**

All gauge used for field testing shall have suitable range so that the test pressure of the various system falls in 40% to 60% of gauge scale range. Gauge shall be of a good quality and in first class working condition.

Prior to the start of any test or periodically during the field test programmes, all test gauges shall be calibrated using a standard dead weight gauge tester or other suitable approved testing apparatus. Any gauge having an incorrect zero reading or error of more than  $\pm 2\%$  of full scale range shall be discarded. The Engineer-in-charge shall check the accuracy of master pressure gauge used for calibration.

#### **4.4 Testing Pressure**

##### **4.4.1 Hydrostatic Test**

All vents and other connections used as vents shall be kept open while filling the line with test fluid for complete removal of air. For pressurising and depressurising the system, temporary isolating valves shall be provided if valves, vents, drains do not exist in the system.

Pressure shall be applied only after the system/line is ready and approved by the Engineer-in-charge.

Pressure shall be applied by means of a suitable test pump or other pressure source which shall be isolated from the system as the desired test pressure is reached and stabilised in the system. A pressure gauge shall be provided at the pump discharge for guiding the system to the required pressure.

The pump shall be attended constantly during the test by an authorised person. The pump shall be isolated from the system wherever the pump is to be left unattended.

Test pressure shall be maintained for a sufficient length of time to permit through inspection of all joints for leakage or signs of failure. Any joint found leaking during a pressure test, shall be re-tested to the specified pressure after repair. Test period shall be maintained for a minimum of three hours.

The pump and the piping system to be tested are to be provided with separate pressure indicating test gauges. These gauges are to be checked by the standard test gauge before each pressure test.

Care shall be taken to avoid increase in the pressure due to atmospheric variation during the test.

##### **4.4.2 Air Test**

When testing with air, pressure shall be supplied by means of a compressor. The compressor shall be portable type with a receiver after cooler & oil separator.

Piping to be tested by air shall have joints covered with a soap and water solution so that the joints can be examined for leaks.



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All other activities shall be same as per hydro-testing procedure (specified above).

#### **4.5 Completion of Testing**

After the hydrostatic test has been completed, pressure shall be released in a manner and at a rate so as not to endanger personnel or damage equipments.

All vents and drains shall be opened before the system is to be drained and shall remain open till all draining is complete, so as to prevent formation of vacuum in the system. After draining lines / systems shall be dried by air.

After testing is completed the test blinds shall be removed and equipment/piping isolated during testing shall be connected using the specified gaskets, bolts and nuts. These connections shall be checked for tightness in subsequent pneumatic tests to be carried out by the contractor for complete loop/circuit including equipments (except rotary equipments).

Pressure tests shall be considered complete only after approved by the Engineer-in-charge. Defects, if any, noticed during testing shall be rectified immediately and retesting of the system / line shall be done by the contractor at his cost. Test Records

Records in triplicate shall be prepared and submitted by the contractor for each piping system, for the pressure test done in the approved proforma.



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**SPECIFICATION FOR STRUCTURAL STEEL FABRICATION**

HSE	Health Safety and Environment
IS	Indian Standards
ISO	International Organization for Standardization
LSBD	Limit State Based Design
MSL	Mean Sea Level
MSS	Manufacturers Standardization Society
NB	Nominal Bore
NDT	Non Destructive Testing
NFPA	National Fire Prevention Association
OD	Outside Diameter
PQR	Procedure Qualification Record
QC	Quality Control
QRA	Quantitative Risk Assessment
ROW	Right of Way
SI	International System of Units
SR	Supplementary requirements
UBC	Uniform Building Code
UT	Ultrasonic Testing (inspection)
WP	Work Practice
WPS	Welding Procedure Specification
WT	Wall Thickness

**4.0 CODES AND STANDARDS**

The following codes, specifications and standards, to the extent specified herein, form a part of this specification. When an edition date is not indicated for a code, specification or standard, the latest edition in force at the time of BGL's contract award shall apply.

Alternate standards, specifications and codes meeting the requirements of the referenced standards, specifications and codes may be used with the approval of BGL.

**American Institute of Steel Construction Publications (AISC)**

The AISC	Specification for Structural Steel Buildings
The AISC	Code of Standard Practice for Steel Buildings and Bridges
The AISC	Specification for Structural Joints Using ASTM A325M or A490M Bolts

The AISC Manual of Steel Construction, ASD, (9th Edition) The AISC M020

LRFD Manuals

**American Society for Testing And Materials (ASTM)**

ASTM A 6M Specification for General Requirements for Rolled Structural Steel Bars, Plates, Shapes and Sheet Piling.

ASTM A 36M Specification for Carbon Structural Steel



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ASTM A 53	Specification for Pipe, Steel, Black and Hot-Dipped Zinc-Coated Welded and Seamless
ASTM A 307	Specification for Carbon Steel Bolts and Studs, 60,000 psi Tensile Strength.
ASTM A 325M	Specification for High-Strength Bolts for Structural Steel Joints. [Metric]
ASTM A 123	Standard Specification for Zinc (Hot –Dip Galvanized) Coating on Iron and Steel Products.
ASTM A 153	Standard Specification for Zinc Coating (Hot Dip) on Iron and Steel Hardware.
ASTM A500	Specification for Cold-Formed and Seamless Carbon Steel Structural Tubing in Rounds and Shapes.
ASTM A 563M	Specification for Carbon and Alloy Steel Nuts (Metric).
ASTM A 569 M	Specification for Steel Carbon (0.15 Maximum Percent), Hot Rolled Sheet and Strip Commercial Quality.
ASTM B 695	Specification for Coating Zinc Mechanically Deposited on Iron and Steel.
ASTM A 490M	Specification for High-Strength Steel Bolts, Classes 10.9 and 10.9.3, for Structural Steel Joints
ASTM A 786M	Specification for Rolled Steel Floor Plates
ASTM F 436M	Specification for Hardened Steel Washers [Metric]
ASTM F 959M	Specification for Compressible - Washer - Type Direct Tension Indicators for use with Structural Fasteners. [Metric]

**American Society For Non Destructive Testing (ASNT)**

ASNT-TC-1A Recommended Practice

**American Welding Society Publications (AWS) AWS D1.1**

**Structural Welding Code - Steel British Standards**

BS 5950	Structural use of steelwork in buildings.
BS 1002	Hot rolled products of non alloy structural steels and their technical delivery conditions.
BS EN 1040	Hot finished structural hollow sections of non-alloy and fine grain structural Steels.
BS 4190	Specification for ISO metric black bolts, screws and nuts.
BS 3692	Specification for ISO metric precession hexagon bolts, screws and nuts.

**Indian Standards**

IS : 277	Indian Standard Specification for galvanized steel sheet (plain and corrugated).
IS : 412	Indian Standard Specification for expanded metal sheets for general purposes.



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IS : 800	Indian Standard Code of Practice for general construction in steel.
IS : 801	Indian Standard Code of Practice for use of cold formed light gauge steel structural members in general building construction.
IS : 806	Indian Standard Code of Practice for use of steel tubes in general building construction.
IS : 807	Indian Standard Code of Practice for design, manufacture, erection and testing (structural portion) of cranes and hoists.
IS : 808	Indian Standard Specification on for dimensions for hot rolled steel beam, column, channel and angle sections.
IS : 811	Indian Standard Specification for cold formed light gauge structural steel sections.
IS : 813	Indian Standard Specification for scheme of symbols for welding.
IS : 818	Indian Standard Code of Practice for safety and health requirements in electric and gas welding and cutting operations.
IS : 961	Indian Standard Specification for structural steel (high tensile).
IS : 1148	Indian Standard Specification on for hot-rolled rivet bars (upto 40 mm dia.) for structural purposes.
IS : 1161	Indian Standard Specification for steel tubes for structural purposes.
IS : 1239 Part 1 – mild steel tubes.	Indian Standard Specification on for mild steel tubes, tubulars and wrought steel fittings ;
IS : 1363	Indian Standard Specification for hexagonal head bolts, screws and nuts of product Grade C ; Part 1 to Part 3.
IS : 1364	Indian Standard Specification for hexagonal head bolts, screws and nuts of product Grades A and B ; Part 1 to Part 5.
IS : 1608	Indian Standard Specification for method for tensile testing of steel products.
IS : 1730	Indian Standard Specification for dimensions for steel plates, sheets strips and flats for general engineering purposes.
IS : 1732	Indian Standard Specification for dimensions for round and square steel bars for structural and general engineering purposes.
IS : 1757	Indian Standard Specification for method for charpy impact test.
IS : 1821	Indian Standard Specification for dimensions for clearance holes for bolts and screws.
IS : 1852	Indian Standard Specification for rolling and cutting tolerances for hot rolled steel products.
IS : 1862	Indian Standard Specification for studs.
IS : 1977	Indian Standard Specification for structural steel (ordinary quality).
IS : 2016	Indian Standard Specification for plain washers.



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IS : 2062	Indian Standard Specification for weldable structural steel.
IS : 2266	Indian Standard Specification for steel wire ropes for general engineering purposes.
IS : 2315	Indian Standard Specification for thimbles for wire ropes.
IS : 2485	Indian Standard Specification for drop forged sockets for wire ropes for general engineering purposes.
IS : 3063	Indian Standard Specification for single coil rectangular section spring washers for bolts, nuts and screws.
IS : 3443	Indian Standard Specification for crane rail sections.
IS : 3502	Indian Standard Specification for steel chequered plates. IS : 3640 Indian Standard Specification for hexagon fit bolts.
IS : 3696	Indian Standard safety code of scaffolds and ladders ; part 1 and part 2.
IS : 3757	Indian Standard Specification for high strength structural bolts. IS : 3964 Indian Standard Specification for light rails.
IS : 4082	Indian Standard Specification recommendation on stacking and storage of construction materials at site.
IS : 4923	Indian Standard Specification for hollow steel sections for structural use.
IS : 5369	Indian Standard Specification for general requirements for plain washers and lock washers.
IS : 5370	Indian Standard Specification for plain washers with outside diameter 3 x inside diameter.
IS : 5372	Indian Standard Specification for tapered washers for channels (ISMIC).
IS : 5374	Indian Standard Specification for tapered washers for I-beams (ISMB).
IS : 5624	Indian Standard Specification for foundation bolts.
IS : 6610	Indian Standard Specification for heavy washers for steel structures.
IS : 6623	Indian Standard Specification for high strength structural nuts.
IS : 6639	Indian Standard Specification for hexagonal bolts for steel structures.
IS : 6649	Indian Standard Specification for hardened and tempered washers for high strength structural bolts and nuts.
IS : 6735	Indian Standard Specification for spring washers for screws with cylindrical head.
IS : 6755	Indian Standard Specification for double coil helical spring washers.
IS : 7205	Indian Standard safety code for erection of structural steel work.
IS : 7215	Indian Standard Specification for tolerances for fabrication of steel structures.
IS : 8500	Indian Standard Specification for weldable structural steel (medium and high



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strength qualities).

IS : 9595

Indian Standard recommendation for metal arc welding of carbon and carbon manganese steels.

All work under this specification, unless otherwise specified, shall conform to the requirements of the latest editions and supplements or any other relevant Indian Standard specifications and codes of practice and in specific cases where the work is not covered by an Indian Standard, any other practice as may be specified by the Engineer shall be followed.

## 5.0 REFERENCE DOCUMENTS

The following reference documents, to the extent specified herein, form a part of this specification. When an edition date is not indicated for a document, the latest edition in force at the time of BGL'S contract award shall apply.

### Project specifications:

Specification for Painting

Any standard required later, shall be provided along with construction drawings.

## 6.0 DOCUMENT PRECEDENCE

It shall be the VENDOR / CONTRACTOR'S responsibility to be, or to become, knowledgeable of the requirements of the referenced Codes, Specifications and Standards.

The VENDOR / CONTRACTOR shall notify BGL of any apparent conflict between this specification, design drawings, the Codes and Standards and any other specifications noted herein. This specification shall govern when there is any conflict with referenced specifications. Resolution and/or interpretation of precedence shall be obtained from BGL in writing before proceeding with the design.

In case of conflict, the order of precedence shall be:

- a) Purchase Order or Contract
- b) Design Drawings
- c) Project Specifications and Standards
- d) Industry Codes and Standards

## 7.0 SPECIFICATION DEVIATION/ CONCESSION CONTROL

Any technical deviations to the Purchase Order and its attachments including, but not limited to, the Data Sheets and Specifications shall be sought by the fabricator only through CONCESSION REQUEST format. CONCESSION REQUESTS require BGL's review/approval, prior to the proposed technical changes being implemented. Alternative equivalent standards to the list mentioned in 'Codes and Standards' in this specification are acceptable subject to approval from BGL. Technical changes implemented prior to BGL's approval are subject to rejection.

## 8.0 QUALITY ASSURANCE/QUALITY CONTROL

The VENDOR / CONTRACTOR shall have in effect at all times a QA/QC program, which clearly establishes the authority and responsibility of those in charge of the quality system. Persons performing quality functions shall have sufficient and well defined authority to enforce quality requirements that initiate, identify, recommend and provide solutions to quality problems and verify the effectiveness of the corrective action.

A copy of the CONTRACTOR'S QA/QC program shall be submitted to BGL with its quotation for BGL'S review and concurrence prior to award. A vendor/ CONTRACTOR'S QA/QC program and facility, where the work is to be performed, is ISO 9000 certified, then only a copy of the VENDOR / CONTRACTOR'S ISO 9000 certificate is required. In addition, if VENDOR / CONTRACTOR'S facility is ISO certified, BGL QA audit requirements will be waived in favour of ISO 9000 registrar audits, unless the VENDOR / CONTRACTOR's trend analysis program indicates areas of concern.



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The **VENDOR / CONTRACTOR** shall identify in purchase documents to its **VENDORS** all applicable QA/QC requirements imposed by BGL and shall ensure compliance thereto. On request, **VENDOR / CONTRACTOR** shall provide objective evidence of its QA/QC surveillance of its **VENDOR's** activities.

The **VENDOR / CONTRACTOR** shall submit certified reports of production tests as soon as the tests are completed satisfactorily.

BGL reserves the right to inspect materials and workmanship at all stages of manufacture and to witness any or all tests. The **VENDOR / CONTRACTOR**, shall provide BGL with a copy of its Manufacturing and Inspection Plan for review and inclusion of any mandatory BGL witness points 30 days after award but prior to the pre-inspection meeting.

**9.0 SITE CONDITIONS**

The following climatic conditions shall govern the design of the equipment:

Temperature:	a) Air	
	Maximum in the sun	: 65°C
	Minimum ambient	: 0°C
	b) Soil at 1m depth (dry and wet sand)	20-25 °C
Relative Humidity:		
	Maximum	: 94 percent
	Average	: 62 percent
	Design	: 100 Percent

Rainfall is infrequent but may occur with winds up to 40m/sec.

**10.0 DOCUMENTATION**

The **VENDOR / CONTRACTOR** shall submit the type and quantity of drawings and documentation for BGL authorisation or information as listed in the individual Material Requisitions and Purchase Orders. Mutual agreement on scheduled submittal of drawings and engineering data shall be an integral part of any formal Purchase Order.

Comments made by BGL on drawing submittal shall not relieve the **VENDOR / CONTRACTOR** of any responsibility in meeting the requirements of the Project Specifications. Such comments shall not be construed as permission to deviate from requirements of the Purchase Order unless specific and mutual agreement is reached and confirmed in writing. Each drawing shall be provided with a title block in the bottom right-hand corner incorporating the following information:

Official trade name of BGL.

- ③ **VENDOR / CONTRACTOR'S** drawing number.
- ③ Drawing title giving the description of contents whereby the drawing can be identified.
- ③ A symbol or letter indicating the latest issue or revision.

Revisions to drawings shall be identified with symbols adjacent to the alterations, a brief description in tabular form of each revision shall be given and if applicable, the authority and date of the revision shall be listed. The term "Latest Revision" shall not be used.

The **VENDOR / CONTRACTOR** shall submit an "Affidavit of Compliance" before beginning fabrication. The affidavit shall confirm that all material meets the requirements of this Specification.

**11.0 SUBVENDOR / CONTRACTORS/ VENDORS**

The **VENDOR / CONTRACTOR** shall assume unit responsibility and overall guarantee for the fabrication of structural



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steel.

It is the VENDOR / CONTRACTOR'S responsibility to enforce all Purchase Order and Project Specification requirements on its SUBVENDOR/CONTRACTORS/VENDORS.

The VENDOR / CONTRACTOR shall submit all relevant SUBVENDOR / CONTRACTOR/VENDOR drawings and engineering data to BGL.

The VENDOR / CONTRACTOR shall obtain and transmit all SUBVENDOR / CONTRACTOR/VENDOR warranties to BGL, in addition to the system warranty.

## **12.0 HANDLING**

### **12.1 Packaging and Shipping**

Preparation for shipment shall be in accordance with BGL'S instructions and as noted herein. The VENDOR / CONTRACTOR shall be solely responsible for the adequacy of the preparation for shipment provisions with respect to materials and application and to provide material at the destination in ex-works condition when handled by commercial carriers.

Adequate protection shall be provided to prevent damage and atmospheric corrosion in transit and at the job site. Preparation for shipment and packing will be subject to inspection and rejection by BGL representative. All costs occasioned by such rejection shall be to the account of the VENDOR / CONTRACTOR.

After inspection, material shall be prepared for shipment.

Material shall be packed, securely anchored and skid mounted when required. Bracing, supports and rigging connections shall be provided to prevent damage during transit, lifting or unloading. All temporary bracing/supports shall be marked "REMOVE BEFORE EQUIPMENT COMMISSIONING AND STARTUP".

Open ends of tubes and pipes shall be capped for protection. Separate loose spare parts, small items and all bolts, washers shall be completely boxed or bagged. A bill of material shall be enclosed in each package or container of parts.

Exposed finished and machined surfaces, including bolting, shall be given a coating of rust inhibiting compound. Internal metal surfaces shall be sprayed or coated with a suitable rust preventative prior to shipment. Items shall be suitably tagged to indicate the rust preventative applied.

Any galvanizing or painting which becomes damaged shall be repaired in accordance with the Specification for Painting, 2007-58-SP-506 and the Specification for Galvanizing, 2007-58-SP-205.

### **12.2 Preservation and Storage**

Materials shall be protected to withstand ocean transit and extended period of storage at the job site for a minimum period of 18 months. Material shall be protected to safeguard against all adverse environments, such as: humidity, moisture, rain, dust, dirt, sand, mud, salt air, salt spray and seawater.

## **13.0 DESIGN AND DETAILING**

### **13.1 General**

13.1.1 Unless otherwise specified, the design drawings will be provided by the VENDOR / CONTRACTOR, in accordance with the provisions of the AISC Manual of Steel Construction or BS 5950 or IS 800.

13.1.3 No deviation from design drawings shall be made without BGL'S approval in writing. The steel shapes to be galvanized clearly marked on the shop drawings.

13.1.4 VENDOR / CONTRACTOR shall be solely responsible for detailing and fabrication so that erection will be



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convenient and free from all interferences, drilling or cutting on site.

13.1.5 VENDOR / CONTRACTOR shall be responsible for dimensions and strength of details not shown in design drawings.

13.1.6 All calculations and drawings shall be in S.I. units.

13.1.7 The VENDOR / CONTRACTOR shall provide erection and fabrication drawings. The VENDOR may use design drawings as erection drawings; however, the title block shall be changed to VENDOR / CONTRACTOR'S title block.

13.1.8 Shop drawings shall take into account agreed practical transportation measures concerning the size of shop assembled or individual pieces of steelwork.

13.1.9 All VENDOR / CONTRACTOR'S documents shall refer to the relevant BGL design drawing numbers and revisions. This information shall be clearly shown near the title drawing block.

13.1.10 Proper clearance shall be provided for field erection.

13.1.11 When fabrication and delivery can be expedited by the substitution of shapes for members shown on the design drawings, such substitutions shall be made only with full knowledge and written consent of BGL prior to fabrication.

13.1.12 Minimum design loads for VENDOR / CONTRACTOR designed connections will be indicated on the design drawings provided by BGL or as per the structural calculation note.

13.1.13 Gussets and stiffener plates shall have a minimum thickness of 10mm.

13.1.14 The edge distance for bolts in bracing members, in the direction of the force, shall comply with AISC Specification for Structural Steel Buildings, ASD, 9<sup>th</sup> Edition section J 3.9 or IS.1821.

13.1.15 Bracing shall be connected with a minimum 2-M20 bolts.

13.1.16 Double angle bracing elements shall not be used, except as otherwise noted on BGL'S drawings.

13.1.17 Column splices shall be detailed and designed by VENDOR / CONTRACTOR to develop full strength to the column (considered as short column).

13.1.18.1 Beams/Segments of beams shall be spliced only at locations specified by the VENDOR / CONTRACTOR/BGL. Splices shall be full penetration welds in accordance with AWS D1.1 or IS 9595. Main connection design and details for splices will be provided by the VENDOR / CONTRACTOR / VENDOR/BGL.

13.1.19 All shop drawings; erection drawings and calculations for connections shall be submitted to BGL for review and approval. Only checked, signed and approved drawings will be accepted. BGL'S review will be for general methods, arrangements and design verification only and shall not imply verification of dimensions or quantities.

13.1.20 Unless otherwise specified, prior to steel shipment, furnish the field with four complete full size sets of approved erection and shop drawings for each shipment, erection segment or shop order.

### **13.2 Welded Connections**

13.2.1 All welded connections shall be designed in accordance with AISC Specification or BS 5950 or IS 800. Welded shop connections are preferred.

13.2.2 Connections requiring field welding shall not be used unless so noted on BGL'S drawings.



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13.2.3 The minimum size fillet welds shall comply with section J2.2b of the AISC Specification for Structural Steel Buildings, but not less than 5mm.

13.2.4 Butt welds, unless shown on the design drawings, are not allowed without prior written BGL'S authorization.

13.2.5 All welded connections shall be continuously welded against corrosion.

13.2.6 VENDOR / CONTRACTOR/VENDOR shall design web thickening plates, if notching of beam flanges will reduce the remaining effective web cross section below the area required for the beam connection design shear force.

13.2.7 All column base plates shall be continuous fillet welded to the columns; the minimum weld size around the flange shall be 0.35 x the flange thickness and along the web 0.35 x the web thickness, unless noted otherwise on BGL'S drawings.

13.2.8 Welded structural load bearing connections where the through thickness of material is subjected to tensile stress, shall be prohibited unless shown on the BGL'S drawings.

13.2.9 Procedures that must be qualified as required by AWS D1.1 Section 5 shall be submitted to BGL for authorization. Welding shall not start until these documents are returned from BGL approved. A certificate of qualification shall be submitted for each welder, welding operator and tacker employed on the work and all weld procedures.

### **13.3 Bolted Connections**

13.3.1 Bolted connections shall be designed as bearing type per AISC or BS 5950 or IS 800.

Bolts and nuts other than high strength shall be ASTM A 307 or grade 4.6 black bolts to BS 4190. Supplied in the equivalent metric sizes.

13.3.2 All bolt holes shall be drilled to their final diameter. Diameter of holes shall be as indicated in Table J 3.1 of the AISC Specification for Structural Steel Buildings or IS 800.

13.3.3 "Pinned" beam connections shall preferably have end plates with a minimum of 4-M20 bolts, except for stability bracing or floor supporting heavy equipment. The minimum end plate thickness shall be 10mm.

13.3.4 Clip angle (cleated) connections shall be shop bolted and field tightened. Shop bolts shall be manually tightened to allow for field adjustment prior to pretensioning.

13.3.5 Minimum thickness of gusset plates and base plates shall be 10mm.

13.3.6 Bolted connections for handrail and toelate, checkered plate, ladders and cages and stair treads shall be made using ASTM A 307 bolts or grade 4.6 black bolts and ASTM A 563 Grade A nuts. Diameter of bolt shall be as required by the approved fabrication drawings.

## **14.0 MATERIALS**

### **14.1 Certification**

14.1.1 VENDOR / CONTRACTOR is responsible to supply materials conforming to the following specifications, including all material certificate/ testing. Mill covering chemical and physical properties for each type of steel shall be included.



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14.2.1 Structural steel shapes shall be in accordance with ASTM A 36M or S275 or IS 808. Steel pipe shall be in accordance with ASTM A 53, Type E or S, Grade B or IS 1161

#### **14.3 Bolts, Nuts And Washers**

14.3.1 VENDOR / CONTRACTOR is responsible to supply bolts, nuts and washers and all material certificates/ testing.

14.3.2 Bolts and nuts other than high-strength shall be per ASTM A 307 Grade B bolt with ASTM A 563 Grade A heavy hex nut or grade 4.6 in accordance with BS 4190.

14.3.3 Load indicator washer shall be in accordance with ASTM F 959M.

14.3.4 All fastener products shall be furnished with mill test certificates showing full conformance with applicable ASTM standard.

14.3.5 In addition to the proper mill and test certificates furnished, a sample bolt from each mill heat and each manufacturing lot for each different VENDOR / CONTRACTOR'S fasteners shall be taken from job site for testing by an independent test lab in accordance with ASTM A 325M test procedures. At least three load indicator washers shall also be taken for each size and shall be tested in accordance with ASTM F 959M. Lot traceability to material and to manufacturing Certified Material Test Reports is required for all high strength bolts and nuts.

14.3.6 Quantities of both common and high strength bolt assemblies shall include 5 percent extra per size and length to cover requirements for fit-up and erection.

14.3.7 All bolts required for erection shall be included with the steel shipments in clearly marked containers.

14.3.8 Bolts, nuts and washers shall be either hot-dipped or mechanically galvanized in accordance with the Specification for Galvanizing, 2007-58-SP-205.

14.3.9 Hot-dipped galvanizing shall comply with ASTM A 153, Class C. Mechanical galvanizing shall be in accordance with ASTM B 695. Nuts shall be tapped oversize, according to ASTM A 563M, prior to galvanizing and then retapped again after galvanizing; mechanically galvanized nuts need not be retapped. Surface preparation shall be in accordance with the Specification for Galvanizing, 2007-58-SP-205.

14.3.10 Load indicator washers shall be mechanically galvanized in accordance with ASTM B 695, Class 50.

#### **14.4 Open Grid Flooring**

14.4.1 Open grid flooring shall be serrated rectangular grid type with bearing bars 30mmx6mm thick at 30mm cross centre with 6 x6 twisted cross bars at 100mm cross centre, hot dipped galvanized after fabrication and manufactured to ASTM A 569M. Galvanizing shall be in accordance with the Project Galvanizing Specification.

14.4.2 Open grid flooring shall be attached to the supporting steel work with clips. The fasteners will be supplied to 15% extra cover losses. The installation of clips shall be done by the erector. Holes or cut out in panels shall be made by flooring manufacturer and have perimeter stiffening strips welded in. This work to be completed before galvanizing. Joints in grating shall occur at points of support unless other appropriate details shall be provided by the ENGINEER/VENDOR / CONTRACTOR.

#### **14.5 Stair Treads**

14.5.1 Stair treads shall be serrated rectangular pattern open grid type, with 30mm x 5mm bearing bars at 41mm cross center, with 6 x 6mm twisted bars at 100mm cross center and non skid abrasive nosings, hot dipped galvanized after fabrication and shall be manufactured to ASTM A 569M. Galvanizing shall be done in accordance with the Specification for Galvanizing 2007-58-SP-205.

14.5.2 Stair treads shall be bolted to the stair stringer.



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#### **14.6 Floor Plates**

14.6.1 Floor plate shall be raised, four-way standard per ASTM A 786M or approved equal and shall be minimum 6mm thickness. Tear shaped pattern 8 x 30 x 2mm. They shall be attached to the supporting steelwork with 12mm diameter counter sunk bolts, unless otherwise noted on the drawing.

14.6.2 A 13mm diameter drainage hole shall be provided per square meter of floor plate. Plates shall be hot dipped galvanized. Galvanizing shall be done in accordance with the Specification for Galvanizing 2007-58-SP-205.

#### **14.7 Welding Electrodes**

14.7.1 All welding electrodes shall comply with IS 816 and shall meet filler metal requirements given in AWS D1.1.

#### **14.8 Ladders, Cages And Handrails**

14.8.1 Ladders, cages and handrails shall be in accordance with Section 12.2. Materials shall be hot dipped galvanized in accordance with the Specification for Galvanizing, 2007-58-SP-205 and applicable standards.

### **15.0 FABRICATION**

#### **15.1 General**

15.1.1 Fabrication and assembly shall comply with the requirements of the AISC specification or BS 5950 or IS 800 except as amended by this specification.

15.1.2 Dimensional tolerances shall follow AISC requirements of Section 6.4 and 10 of the Code of Standard Practice and Section 1.23.8.1 of the applicable AISC Specification or IS 7215.

15.1.3 Platforms, stairways and handrails shall be shop-assembled in the largest unit suitable for handling, shipping and erection. Platforms on columns shall be systematically shop-assembled to avoid unnecessary adjustments on site.

15.1.4 Shop-assembly by welding shall be the maximum compatible with type of transport from workshop to site.

15.1.5 Members shall not be spliced without prior written approval of BGL.

15.1.6 All cuts shall be neat, clean and free of warping, cracking and burrs. Edges and holes shall be deburred and rounded off.

15.1.7 Bolt holes shall be drilled to their final diameter.

15.1.8 Top rails of handrails, ladder rungs, rails and cages shall be smooth and free of burrs, sharp edges and weld spatter.

15.1.9 Panels for open grid flooring and floor plates shall be fabricated with span ends occurring over structural framing.

15.1.10 Panels for open grid flooring and floor plates which have shop-made cutouts shall be split on the centerline of the openings. All openings 200mm in diameter or 250mm in diagonal and larger shall be banded with a toe plate.

15.1.11 Handrails, ladders and cages shall be shop assembled to the greatest extent possible within shipping limitations. Handrail shall be shop attached to platforms whenever practical. Handrail that cannot be shop attached to platforms shall be shop assembled in sections for field bolting to platforms. Ladder cages shall be shop assembled on ladders. Safety gates shall be tagged, shipped loose and securely wired to corresponding handrail with # 9 wire.

15.1.12 Fabrication of handrails and fencing shall be performed to such a degree that when erected top rail will be straight and level to the eye.



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15.1.13 BGL reserves the right to reject any unsatisfactory materials and misfit members resulting from errors in shop detailing, fabrication, painting or galvanizing. Any such errors which prevent the proper assembly of the structure and which require correction or adjustment shall be reported to the **VENDOR / CONTRACTOR**, who is responsible to correct the error. The cost of all such corrections shall be borne by the **VENDOR / CONTRACTOR**. The **VENDOR / CONTRACTOR** shall submit the proposed correction technique and method statement for BGL remedial action. No detrimental effect on quality, cost or schedule shall result.

### **15.2 Bolting**

15.2.1 The length of the smooth cylindrical part of the bolt shall not be less than 0.85 the sum of the thickness of the members to be bolted.

15.2.2 The thread length of the bolts shall be adequate to ensure that the nuts are entirely engaged.

15.2.3 The required locking devices, if noted on the drawings, shall be provided.

### **15.3 Welding**

15.3.1 Welding, including details and drawings, procedures, qualification of personnel, consumables, workmanship, quality testing and inspection, shall comply in every respect with the requirements of AWS D1.1 Code.

15.3.2 All shop welding shall be performed in an area protected from adverse weather conditions (rain, wind) and air-borne dust and sand.

15.3.3 Parts to be welded shall be carefully prepared and be firmly held before welding to avoid, as far as possible, warping, buckling and residual stresses.

15.3.4 All welded seams shall be continuous.

15.3.5 Stitch welds shall be made in at least two passes such that filler metal is deposited over the whole thickness of the joint.

15.3.6 Weld profiles shall be controlled by gauges in accordance with the relevant standards.

15.3.7 Stitch welds not incorporated in the final weld shall be removed by grinding after completion of the work in order to produce a smooth regular finish.

15.3.8 Prior to the beginning of the work, the **VENDOR / CONTRACTOR** shall submit to BGL a welding procedure to include the following :

1. Method of preparing the parts to be welded (clearances, tolerances,...).
2. Location, type, size of welds and effective length of welds.
3. Details of non-standard welds.
4. Where seal welds are required with details.
5. Type and extent of inspection including any special inspection requirements.
6. Welding supervisor and welders shall be qualified in accordance with the relevant AWS codes / IS codes and they will have qualification certificates available for review.
7. Specification and grade of parent metal.
8. Classification of consumables.
9. Welding consumables certificates.
10. Electrodes certificates.
11. Quality of welds and inspection.



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All additional information to be shown on weld maps using AWS / IS symbols and terminology.

15.3.9 The quality of welds and inspection shall be in accordance with the requirements of AWS D1.1 Code.

15.3.10 Visual examination for all categories of weld shall reveal no cracks. Uncontinuous weld shall not be permitted. Welds shall be free of all weld-slag before any visual examination or Non-Destructive Examination (NDE)

15.3.11 Butt welds noted on the drawings shall be subjected to radiographic examination in the shop.

15.3.12 Butt weld performed by automatic or semi-automatic welding shall be subjected to the above-mentioned examination and to an ultrasonic examination.

15.3.13 The quantity and the type of control shall follow the requirements of AWS code, indicated on design drawing or specified by the BGL'S representative in workshop.

15.3.14 The following Non-Destructive Examinations (NDE) are required for structural welding

15.3.14.1 Five percent of the total number of full penetration welds shall be radiographed or ultrasonically examined 100 percent of the entire length of the weld(s) selected.

15.3.14.2 Five percent of the total number of fillet or partial penetration welds shall be magnetic particle examined 100 percent of the entire length of the weld(s) selected. If anywhere one weld line meets another weld line, that location shall be one of the selected.

15.3.14.3 When a selected weld is rejected, two additional welds shall be subject to NDE. This procedure of examining two welds for every weld rejected shall continue until all welds examined are accepted. The replaced welds shall also be examined.

15.3.14.4 Weld selected to satisfy this five percent requirements shall be selected by BGL'S representative and shall represent a sample of each welder's work for each type of weld.

15.3.15 VENDOR / CONTRACTOR shall visually inspect all completed welds. Procedures and acceptance criteria shall be in accordance with AWS D1.1. Undercutting beyond the limits of AWS D1.1.

#### **15.4 Finishing**

15.4.1 Upon completion of fabrication, all surfaces of structural steel not noted otherwise are to be blasted and primed by VENDOR / CONTRACTOR according to the Specification for Painting 2007-58-SP-506

15.4.2 Galvanized items are indicated in other Sections of the Specification.

15.4.3 Prior to galvanizing or shop priming, all sharp corners, burrs (including bolt hole burrs), weld spatter, slag, weld flux, loose mill scale and other foreign matter shall be removed.

15.4.4 Provisions shall be made for inaccessible surfaces after assembly - such surfaces shall be painted before assembly.

#### **16.0 MARKING AND EXPORT PACKING**

##### **16.1 Marking**

16.1.1 All steelwork pieces shall be marked in accordance with the following marking procedures or another approved procedure to be confirmed or adapted by BGL.





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- 16.2.1.2 Maximum sizes for fabricated pieces shall be limited to the size, which can be transported by truck.
- 16.2.1.3 Packing shall be separate for each unit and structure. Grouping of structures provided for several units is not allowed.
- 16.2.1.4 Steel shall be shipped in erectable lots, i.e. beams, columns, bracings, etc... for the same structure, at the same time.
- 16.2.1.5 A lot shall be deemed packed when all the material required for field erection has been packed. In particular, bolts and other fastening items shall be packed at the same time as the main material of the corresponding lot.
- 16.2.1.6 Necessary bolts shall be always sent with the structural steel components.
- 16.2.1.7 The specific identification of each package, including Purchase Order or Contract Number, shall be marked on the top and two opposite sides.
- 16.2.1.8 For each package, the following shall be marked: dimensions, net weight, gross weight to be confirmed by BGL.
- 16.2.1.9 The weight of a package shall not exceed 5 t (except for some pieces which can be arranged in pairs) to be confirmed by VENDOR / CONTRACTOR.
- 16.2.1.10 All members shall be carefully handled and cribbed to prevent damage to members and protective coatings.
- 16.2.2 Types of packages
- 16.2.2.1 Category 1 - Bundles
- Bundles shall be used for packing of standard straight shapes and built up welded shapes.
- This type of packing will be used for parts not likely to be subject to permanent distortion during handling operations.
- Packages shall be homogeneous and all parts shall be properly wedged against one another.
- Placing of accessories between steel shape flanges is prohibited.
- Material hooping shall be with steel shapes with cross section equal to or exceeding 100mm and 24mm diameter studs provided with lock nuts.
- 16.2.2.2 Category 2 - Crates
- Crates shall be used for steel structures or plates, walkways, railing components, cage components, etc., as a rule for all components likely to be subject to distortion during handling.
- The material shall be fixed inside by means of wooden shims suiting the material shape.
- 16.2.2.3 Category 3 - Cases
- Cases without internal liner:
- 16.2.3 They shall be used for packing of assembling components, not shop assembled in their final position on main parts, such as short angles, gussets, wedges, etc...
- These components shall previously be grouped in series per identical structure number and coated with the shop protection provided on main parts.
- Cases with internal liner (waterproof):
- They shall be used for bolting materials (bolts, nuts, washers) and welding electrodes.
- Bolt assemblies shall be properly oiled and placed in sacks prior to packing. Sacks shall be oiled prior to packing.
- Bagging shall be made per quality, length and diameter of bolts, including bolts, nuts and washers. A metal tag shall be affixed on each bag and another inside with the indication of the number, quality, diameter and length of bolts.
- 16.2.2.4 Packing lists reflecting what is actually shipped shall be furnished with each load in a waterproof package.



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## SPECIFICATION FOR PAINTING

### 1.0 SCOPE

#### 1.1 Introduction

This Specification covers the painting requirements for exterior surfaces of aboveground Pipeline, Piping, Equipment, Storage Tanks, Valves, Tees, Fitting, Flanges and Structural Steel made out of carbon steel and low alloys, stainless steels.

#### 1.2 Purpose

The materials and procedures specified herein are provided to protect plant equipment from corrosion and to provide an aesthetically pleasing environment for personnel to work in.

#### 1.3 Definitions

For the purpose of this specification, the following definitions apply:

**OWNER** means the BGL (India) Limited, and its legal successor in title.

The **VENDOR** is the party which manufactures or supplies equipment and services to perform the duties specified by the CONSULTANT.

**CONSULTANT** means BGL INDIA LTD.

The word **shall** indicates a requirement.

The word **should** indicates a recommendation

### 2.0 CODES AND STANDARDS

It shall be the VENDOR'S responsibility to be, or to become, knowledgeable of the requirements of the referenced codes and standards.

The following codes and standards, to the extent specified herein, form a part of this Specification. Where an edition date is not indicated for a code or standard, the latest edition in force at the time VENDOR'S proposal is submitted shall apply. VENDOR may use alternate standards that meet or exceed those listed, if approved by the BGL.

<b>American Society For Testing And Materials (ASTM) B117</b>	Salt Spray (Fog) Testing
D4060	Abrasion Resistance of Organic Coatings by the Taber Abraser
D4541	Pull-Off Strength of Coatings Using Portable Adhesion Testers
D5162	Discontinuity (Holiday) Testing of Non-Conductive Coating on Metallic Substrates.

#### German Colour Standard

RAL 840 HR      Standard Colours

#### International Organization For Standardization (ISO)

ISO 2409	Paints and Varnishes - Cross-cut test for adhesion
ISO 2504-2	Radiography of Welds and Viewing Conditions for films - Utilisation of recommended patterns of image quality indicators
ISO 2808	Paints and Varnishes - Determination of film thickness ISO 4624      Paints and Varnishes - Pull-off test for adhesion
ISO 4628-2	Paints and Varnishes - Evaluation of degradation of paint coatings - Impact



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	intensity, quantity and size of common types of defect - Part 2: Designation of degree of blistering
ISO 4628-3	Paints and Varnishes - Evaluation of degradation of paint coatings - Designation of intensity, quantity and size of common types of defect - Part 3: Designation of degree of rusting
ISO 4628-4	Paints and Varnishes - Evaluation of degradation of paint coatings - Designation of intensity, quantity and size of common types of defect - Part 4: Designation of degree of cracking
ISO 4628-5	Paints and Varnishes - Evaluation of degradation of paint coatings - Designation of intensity, quantity and size of common types of defect - Part 5: Designation of degree of flaking
ISO 4628-6	Paints and Varnishes - Evaluation of degradation of paint coatings - Designation of intensity, quantity and size of common types of defect - Part 6: Rating of degree of chalking by tape method
ISO 8501-1	Preparation of steel substrates before application of paints and related products — Visual assessment of surface cleanliness. Part 1: Rust grades and preparation grades of uncoated steel substrates and steel substrates after overall removal of previous coatings
ISO 8502-1	Preparation of steel substrates before application of paints and related products—Tests for the assessment of surface cleanliness—Part 1: Field test for soluble iron corrosion products
ISO 8502-2	Preparation of steel substrates before application of paints and related products — Tests for the assessment of surface cleanliness — Part 2, Laboratory determination of chloride on cleaned surfaces
ISO 8502-3	Preparation of steel substrates before application of paints and related products — Tests for the assessment of surface cleanliness — Part 3, Assessment of dust on steel surfaces prepared for painting (pressure-sensitive tape method)
ISO 8502-4	Preparation of steel substrates before application of paints and related products — Tests for the assessment of surface cleanliness — Part 4, Guidance on the estimation of the probability of condensation prior to paint application
ISO 8503-2	Preparation of steel substrates before application of paints and related products — Surface roughness characteristics of blast cleaned steel blast-cleaned steel. — Part 2, Comparator procedure
ISO 8504-2	Preparation of steel substrates before application of paints and related products — Surface preparation methods — Part 2, Abrasive blast-cleaning
ISO 8504-3	Preparation of steel substrates before application of paints and related products — Surface preparation methods — Part 3, Hand and power tool cleaning
ISO 9001	Quality Systems - Model for Quality Assurance in Design, Development, Production, Installation and Servicing
ISO 9003	Quality Systems - Model for Quality Assurance in Final Inspection and Test ISO 9004 Quality Management and Quality System Elements - Guidelines

**Steel Structures Painting Council (SSPC)**

SSPC PA-2	Measurement of Dry Coating Thickness with Magnetic Gauges SSPC VIS-1	Pictorial
	Surface Preparation Standards for Painting Steel Surfaces	

**3.0 REFERENCE DOCUMENTS**

The following reference documents, to the extent specified herein, form a part of this Specification. When an edition date is not indicated for a document, the latest edition in force at the time of VENDOR'S proposal is submitted shall apply.

**Manufacturer's data**



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MANUFACTURER's technical data sheets, recommendations and instructions.

**4.0 DOCUMENT PRECEDENCE**

The VENDOR shall notify the apparent conflict between this Specification, the APPLICATION DATA, the codes and standards and any other Specification noted herein. Resolution and/or interpretation precedence shall be obtained from the BGL in writing before proceeding with surface preparation or application of coatings.

In case of conflict, the order of precedence shall be:

- Project Specification.
- Product application Data Sheets.
- Industry codes and standards.

**5.0 SPECIFICATION DEVIATION / CONCESSION CONTROL**

Any technical deviations to the Specifications and its attachments including, but not limited to, the Data Sheets and Narrative Specifications shall be obtained by the VENDOR only through CONCESSION REQUEST format. CONCESSION REQUESTS require BGL's review/approval prior to implementation of the proposed changes. Technical changes implemented prior to BGL approval are subject to rejection.

**6.0 QUALITY ASSURANCE/ QUALITY CONTROL**

The VENDOR shall have in effect at all times a QA/QC program, which clearly establishes the authority and responsibility of those in charge of the quality system. Persons performing quality functions shall have sufficient and well defined authority to enforce quality requirements that initiate, identify, recommend and provide solutions to quality problems and verify the effectiveness of the corrective action.

A copy of the VENDOR's QA/QC program shall be submitted to BGL with its quotation for BGL'S review and concurrence prior to award. If VENDOR's QA/QC program and facility, where the work is to be performed, is ISO 9000 certified, then only a copy of the VENDOR's ISO 9000 certificate is required. In addition, if VENDOR's facility is ISO certified, BGL's QA audit requirements will be waived in favour of ISO 9000 registrar audits, unless the BGL's trend analysis program indicates areas of concern.

The VENDOR shall identify in purchase documents to its SUBVENDORS all applicable QA/QC requirements imposed by BGL and shall ensure compliance thereto. On request, VENDOR shall provide objective evidence of its QA/QC surveillance of its SUBVENDOR's activities.

The VENDOR shall submit certified reports of production tests as soon as the tests are completed satisfactorily.

The BGL reserves the right to inspect materials and workmanship at all stages of manufacture and to witness any or all tests. The VENDOR, shall provide BGL with a copy of its Manufacturing and Inspection Plan for review and inclusion of any mandatory BGL witness points 30 days after award but prior to the pre-inspection meeting.

**7.0 SITE CONDITIONS**

The following climatic conditions shall govern the design of the equipment:

<b>Temperature:</b>	a)	Air		
		Maximum in the sun	-	65°C
		Minimum ambient	-	0°C
	b)	Soil at 1m depth	-	20-25°C (dry & wet sand)
<b>Relative Humidity</b>				
		Maximum	-	94 percent
		Average	-	62 percent
		Design	-	100 percent.



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## 8.0 SUBVENDORS

The VENDOR shall transmit all relevant purchase order documents including specifications to his SUB-VENDORS. It is the VENDOR'S responsibility to enforce all Purchase Order and Specification requirements on his SUB-VENDOR.

The APPLICATOR shall obtain and transmit all relevant SUB-VENDOR drawings and engineering data to the VENDOR.

The VENDOR shall obtain and transmit all SUB-VENDOR warranties to BGL, in addition to the system warranty.

## 9.0 HANDLING OF COATED ITEMS

Preparation for shipment and packing will be subject to inspection and acceptance by the BGL'S inspectors. All costs related to any rejection by BGL shall be to the account of the VENDOR.

Facilities and methods of yard storage and protection of the pipe during transportation shall be subject to approval by the VENDOR. Preparation of coated items for shipment shall be in accordance with the VENDOR'S standards and as noted herein. VENDOR shall be solely responsible for the adequacy of the preparation for shipment provisions with respect to coated items and to provide equipment at the destination in ex-works condition when handled by commercial carriers.

Adequate protection shall be provided to prevent mechanical damage to the applied coating system and subsequent atmospheric corrosion in transit and at the jobsite.

Finished painted pipe and pipe spools shall be handled and/or stored in a manner to protect the coating from damage. They shall not be dropped, rolled or impacted with or against solid objects with a force capable of causing coating damage.

Finished painted pipe and pipe spools shall be shipped using sufficient padding to adequately protect the pipe coating.

Finished painted pipe and pipe spools shall be lifted, lowered, or suspended by the use of rubber or canvas belt with removable pin and clevis on one end to permit removal of belt without damage to the coating. The belt shall be of sufficient width to prevent any damage being sustained by the coating. Use of ropes of any kind, hooks, bands, chains or cables shall not be permitted.

Coated items shall be protected from damage during storage and handling at the job site prior to use. Coated items shall be stored off the ground on sufficiently padded skids, properly leveled and spaced, to support the coated item. Each coated item shall be separated from each adjacent item.

Un-applied coatings and related materials shall be protected to withstand ocean transit and an extended period of storage at the jobsite, but not in excess of the MANUFACTURER'S stated shelf life, for each coating material. All materials shall be protected to safeguard against all adverse environments, such as: heat, humidity, moisture, rain, dust, dirt, sand, mud, salt air, salt spray and sea water.

Gasket contact surfaces and machined surfaces shall be protected with Shell Ensis fluid or other VENDOR approved material to prevent rusting during transportation and storage.

## 10.0 EXECUTION

### 10.1 Shop Versus Field Painting Policy

Shop and field painting shall be based on the following policy. Shop application of the complete coating system is preferred. Where the complete paint system before transport to the site is not possible, primer application in the shop followed by intermediate coat and top coat at site after erection or primer and intermediate coat at shop followed by touch-up and top coat application at site after erection. In these cases the time limit in between coats recommended by manufacturer shall be strictly followed.

VENDOR shall submit a Work Plan/Method Statement delineating painting work execution between shop and field painting and obtain BGL'S approval.



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The VENDOR at their facility shall perform surface preparation, priming and application of at least one coat on top of the primer to the following items.

- Boilers
- Heaters
- Stacks
- Tanks (shop fabricated)
- Other miscellaneous items
- Exchangers
- Piping
- Structural steel
- Vessels

Non itemized (bulk) carbon steel valves shall receive at shop, after surface preparation to Sa 2 ½ and profile roughness 50 to 100µm , one coat to 75 µm of in organic Ethyl Zinc Silicate.

Non itemized (bulk) stainless steel valves shall receive at shop the complete Painting System No. 9 (see Table 2, Appendix 1).

The VENDOR shall perform surface preparation, priming and finish painting of the following items including all attachments thereto in accordance with the painting systems of this Specification or their standard paint specification provided the total paint system has a minimum corrosion resistance of 2000 hours when tested in accordance with ASTM B117.

- Compressors
- Electrical equipment
- Motors
- Shelf items
- Turbines
- Control equipment
- Fans
- Pumps
- Specialty equipment
- Itemized valves

Any painting procedures submitted by the VENDOR and approved by BGL shall be considered additional to the requirements of this Specification but shall not be considered in lieu of or substitution for the procedures and requirements stated in this Specification.

**11.0 MATERIALS**

The BGL reserves the right to instruct the VENDOR to use approved materials from paint manufacturers. Prequalification of manufacturer's products is subject to compliance with BGL'S procedures and requirements.

Unless otherwise approved by the VENDOR, products specified in this section and Table 3 (Appendix 1) shall be used.

**11.1 Abrasives**

For surface preparation, expandable abrasives or BGL approved abrasives shall be used.

**11.2 Compressed Air**

Compressed air shall be clean, dry, oil free and supplied at a temperature of less than 50°C. Moisture and oil traps shall be used in compressed air lines for blast cleaning, conventional, or airless spray equipment. Compressed air pressure shall not be less than 5.5 barg (80 psi). It shall be tested for oil and moisture by a blotting paper test regularly. Oil traps and moisture traps shall be cleaned when required.

**11.3 Paint Materials**

Coatings containing cadmium or lead or any toxic material to environment/personnel shall not be used without the prior approval from BGL. Paints for use over stainless steels or nickel alloys shall not contain free chlorides or other halides and zinc. Chlorides or other halides tied up within the cured resin's molecule may be acceptable, unless they are subject to release through aging within the temperature range specified.

All coatings and related materials shall be as identified in Table 3 (Appendix 1).

Primers, intercoats and finishes shall be factory tinted, sealed and labeled. Thinners and solvents shall be as identified in the coating manufacturer's data sheets.



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All paint materials shall be used in strict rotation on a first-in, first-out basis.

Polyurethane finishes used to this specification shall have excellent colour retention and high gloss.

Primer colours shall be MANUFACTURER'S standard colours. Finish colours, except for silicone aluminum, shall be as noted in the colour schedule of Table 4 (Appendix 2). For services above 100°C, if heat stable colours matching specified colours are not commercially available from the MANUFACTURER'S standard stock, heat stable colours shall be selected regardless of colour match subject to BGL'S choice of standard stock colour.

The VOC (Volatile Organic Compound) level of the coating materials shall not exceed 420 g/l or the limit set by local agencies whichever is lower.

VENDOR shall be completely responsible for determining the compatibility of coating materials being applied to the same item that are the products of different MANUFACTURERS.

## **12.0 GENERAL REQUIREMENTS**

### **12.1 Surfaces not to be Painted**

The following items do not require any shop or field surface preparation and coating unless otherwise specified:

- Aluminum fins air coolers.
- Insulation jacketing.
- Interior surfaces of equipment (except where indicated otherwise).
- Nonmetallic surfaces.
- Nonferrous surfaces, i.e., aluminum or monel.
- Operating parts of machinery and equipment, e.g. valve stems and shafts.
- Polished and machined surfaces, e.g. flange facings.
- Other miscellaneous items such as gauge glass, name plates, push buttons, code stampings, sacrificial anodes.
- For low temperature service, the VENDOR shall paint all surfaces which are exposed to atmosphere where condensation is likely to occur in service. These may be polished or machined surfaces without any tagging and include fasteners which are prone to rust.

### **12.2 Protection of Stainless Steel and Nickel Alloy Surfaces**

Normally it is not required to paint the Stainless steel and nickel alloy steel surfaces. If it is a requirement of contract, then it shall be coated prior to coating of carbon steel or galvanized surfaces. All stainless steel and nickel alloy surfaces shall be coated prior to coating of carbon steel or galvanized surfaces. However, stainless steel tubing made from AISI 904 L and instrumentation stainless steel parts which are subject to dismantling or opening during operation and maintenance do not need to be painted.

When zinc rich primers are used, care shall be taken to avoid overspraying onto duplex or austenitic stainless steel, nickel alloys or 9% nickel steel components. Inconel 625 does not need to be painted. However, Incoloy 825 shall be painted if the chloride content in atmosphere is high.

Zinc rich primers shall not be used on any surface that may develop Liquid Metal Embrittlement (LME) problems in service.

Zinc rich primers shall not be applied to any piping and equipment which is above any surface which may develop Liquid Metal Embrittlement in the event of a fire.

### **12.3 Surfaces Requiring Insulation**

All surfaces under any insulation system shall be coated completely before the application of any insulation material.

### **12.4 Safety Requirements**



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All necessary precautions shall be taken to ensure the safety of personnel and property. The VENDOR shall comply with applicable National, State or local codes and regulations and safety orders and practices of the BGL covering working conditions, scaffolding, clothing, fire and explosion hazards, safety equipment, solvents, lighting, venting and grounding of vessels.

Rags and other waste material soiled with paints, thinners or solvents shall be kept in tightly closed metal containers while on the job or not in use.

Extreme precautions shall be used when working with paint materials, cleaning fluids, etc. especially in close proximity to oxygen piping or oxygen equipment. Heavy concentrations of volatile or toxic fumes shall be avoided. When working in confined areas, blowers or exhaust fans shall be used.

13.0 SURFACE PREPARATION

13.1 Items to be Protected

Before abrasive blast cleaning, all equipment, which could be damaged by blast, dust or particulate matter shall be suitably protected by wrapping, taping, or other means to prevent damage. This equipment shall include, but not necessarily be limited to, the following:

- Bearings, Control valves, Couplings, Fire system sprinkler heads, Instrument dials, Machined surfaces, Screws, Spring hanger graduations, Valve stems and position indicators, Push buttons, Control panels, Conduit, Expansion joint bellows, Flange facings (pipe), Level gauge glasses, Nameplates/Code stampings, Shafts, Tags, Exposed moving parts, Valve and equipment grease nipples

Basic Cleaning

The following cleaning procedure is mandatory for all surfaces before blast cleaning. This cleaning procedure is also mandatory before applying field coatings over shop coated items and any surface which requires coating.

Dust, dirt and debris shall be removed from the substrate surfaces by compressed air or high pressure fresh water washing. Where necessary, stubborn deposits shall be removed by scrubbing with stiff plastic brushes.

Surface contaminants such as oil, grease, hydrocarbons, etc., shall be cleaned with a degreasing agent, recommended by the paint manufacturer.

For heavily contaminated surfaces, hydro blasting may be applied. This should employ the use of clean fresh potable water having a maximum chloride level of 30ppm. With the prior approval of BGL the water may be mixed with an approved detergent provided that the washed surfaces are finally washed with fresh potable water to remove all traces of the detergent wash.

The degreased surfaces shall be further washed with fresh water to remove all traces of the cleaner chemicals.

The surfaces shall be allowed to thoroughly dry before proceeding with any further coating work. All bolt holes shall be solvent-cleaned prior to blast cleaning.

13.3 Preblast Cleaning

Sharp edges, fillets, corners and weld seams shall be radiused or smoothed to a minimum of 3mm. The VENDOR shall give



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special attention to all weld areas for removal of burrs, weld spatter, weld flux, slivers indentations, protrusions and other foreign matter to be removed by grinding prior to abrasive blast cleaning. If grinding is to be carried out after blast cleaning, the ground surface shall be reblast cleaned to restore the specified profile.

Supports for items to be blast cleaned shall have a configuration such that the contact points are as small as possible to limit surface area covered.

#### **13.4 Cleaning of Carbon Steel Surfaces**

Carbon steel surfaces shall be prepared by blast cleaning as specified for the paint system. With the prior approval from BGL Power tool/Hand tool cleaning shall be used for the field welds and the areas, which are not possible to blast cleaning due to limited access, risks of damage to equipment, light gauge steel, the proximity of electrical components or instrumentation. Blast cleaning shall only be performed when appropriate conditions exist. See paragraph 14.1. Specific surface preparation method shall be in accordance with ISO 8501-1 and as specified for each individual coating. Abrasives for blast cleaning shall be clean, dry, free of any constituent part that could be detrimental to long term coating performance and shall be selected to provide the proper surface profile for the coating to be applied. Silica sand shall not be used. All blast media used shall be submitted to VENDOR for approval prior to initiation of any surface preparation work.

Surface profile (also called anchor pattern) shall be 30 microns or 50% of the prime coat dry film thickness which ever is higher but shall not exceed 150 microns.

Blast cleaned surfaces shall be primed as shortly as possible, but in no case may exceed intervals given below :

- Immediately if condensation is likely to take place due to weather change or if weather conditions are likely to worsen.
- 2 hours if shift is changing 4 hours if weather is stable.
- Before any visible change in surface appearance occurs

Blast cleaned surfaces shall meet the requirements of the surface preparation standard specified for the particular situation. After blast cleaning, any metal protrusions or other metal imperfections found shall be ground out and reblast cleaned.

Surfaces shall be clean, free of dust and abrasive particles before priming. Care shall be taken to keep cleaned surfaces free of contamination from dirt, dust, grease, weld slag and any other foreign material.

Surface preparation shall be subject to inspection before the prime coat is applied to ensure all traces of dust and foreign matter have been removed by brushing, blowing with clean compressed air, or vacuum cleaning.

The surface profile of a blast cleaned surface shall also be subject to inspection prior to application of the prime coat. The methods and equipment as noted in Section 16, Inspection and Testing, shall be used to determine and maintain the appropriate surface profile.

Abrasive blast-cleaning equipment shall be of an intrinsically safe construction and equipped with a remote shutoff valve triggered by the release of a dead man's handle at the blasting nozzle.

Where air-operated equipment is used, the operator's hood or headgear shall be ventilated by clean, cool air served through a regulator filter, to prevent blast cleaning residues from being inhaled.

#### **13.5 Cleaning of Galvanized and Inorganic Zinc Surfaces**

Hot-dip galvanized steel surfaces shall be prepared before application of any coating in accordance with the application data.

Galvanized or zinc primed surfaces shall be free of all zinc salts, oil and grease before application of any surface treatment or coating. Zinc salts, oil and grease shall be removed by fresh water washing and/or suitable solvent. Then, surfaces shall be lightly blast cleaned with appropriate abrasive to ensure proper adhesion of subsequently applied coating. Any other surface treatment shall require BGL'S approval.

#### **13.6 Cleaning of Stainless Steel and Nickel Alloy Surfaces**



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Surface preparation of stainless steel, or Incoloy shall be in accordance with ISO 8504-2, Sa 1 light blast cleaning to achieve a 25-40µm profile. Abrasive media shall be as per para 11.1 and shall contain no free metals or be contaminated with any free metals. At the jobsite, when blast cleaning is not practical, high pressure steam cleaning with an appropriate thorough solvent cleaning (chloride free) or alkaline detergent if the surface have foul deposit, may be used provided such a method is acceptable to the paint MANUFACTURER and upon prior approval from the VENDOR. The use of steam or solvent cleaning only, at a shop VENDOR'S facility, is not acceptable. Surface profile shall be checked by VENDOR.

**14.0 PAINTING APPLICATION**

**14.1 Scheduling**

Unless otherwise recommended by the manufacturer, coatings shall not be applied when:

- The ambient temperature is less than 4°C.
- The relative humidity is more than 85 percent, except for Inorganic Ethyl Zinc Silicate up to 95%.
- The surface temperature is less than 3°C above the dew point.
- The metal surface temperature is higher than that recommended by the MANUFACTURER for application.
- Surface preparation has not been completed or oil, grease and dust are present on the substrate to be painted.
- Poor weather conditions for painting exist or are expected within two hours of application such as blowing sand, fog or rain.
- Where there is a deposition of water in the form of rain, condensation, frost, etc. on the surface.
- Where the available light is less than 500 lux.
- When there has been any visible deterioration in the surface condition between preparation and the time of application

**14.2 Preparation for Painting**

Storing, thinning, mixing and handling of paint materials shall be in accordance with the application data. All containers shall remain closed in factory sealed containers until required for use. Each container must have full identification information including manufacturer's name, product identification, batch number, date of manufacture, shelf life, basic instructions and contact telephone number for technical service. All aspects of safety relating to the use of coatings and associated thinners shall be in complete accordance with the manufacturer's stated requirements.

The MANUFACTURER'S pot-life and (where applicable) induction time (necessary time between mixing and application of some of 2 pack paint materials) requirements shall be followed. Mixing of different brands or generic types of coating materials is not allowed. On-site mixing of approximate proportions is not permitted. All mixing shall be done using factory proportioned containers only.

The pneumatic testing sections of the piping shall not be painted before the testing.

**14.3 Masking**

Ends of pipe and related components, tank plate, structural steel and like areas of other items that will require subsequent welding at site, shall be masked off after blast cleaning and left uncoated for a distance of 50mm from all areas requiring welding. The masking material shall be removed as soon as possible after priming or painting. It shall be the VENDOR'S responsibility to see that all masking material is thoroughly removed from the equipment and any damage to the primed/painted surface is repaired prior to shipment.

**14.4 Painting Application**

Surfaces shall be painted with paint systems specified in Appendix 1 as painting schedules for external surfaces (table 1) and paint systems (table 2) using paint materials (table 3) in accordance with application data.

Paint shall be applied to dry, clean, prepared surfaces under favorable conditions and in accordance with the application data.

Pigmented and catalyzed materials shall be thoroughly mixed using power mixers before being applied. Sticks shall not be



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used.

Continuous agitation type spray pots shall be used when applying metal pigmented coatings such as zinc or aluminum loaded coatings.

A mist coat shall be applied over inorganic zinc primer on Paint System No. 2 (Table 2, Appendix 1) to avoid surface defects. The VENDOR shall exercise necessary care to ensure a smooth and uniform coating is applied over inorganic zinc primer.

Extra coats of paint shall be applied on areas where shape and/or plane of application results in thinly applied coating, e.g. at edges, welds, corners, etc. To compensate for these effects, a stripe coat of paint shall be brush applied before applying the finish coat.

All coatings shall be uniformly applied without runs, sags, solvent blisters, dry spray or other blemishes. All blemishes and other irregularities shall be repaired or completely removed and recoated. Special attention shall be paid to crevices, corners, edges, weld lines, bolt heads, nuts and small brackets, to apply the specified minimum dry film thickness by brush application if spray will not completely cover all surfaces.

Surfaces that will be inaccessible after assembly, including the surfaces of lap joint flanges, nozzle necks, lap joint stub ends, lap rings, bolt holes and some welded joints, shall receive the complete painting system before being assembled. Contact surfaces of bolted connections are to be primed only.

On structural steel areas which are assembled by high tension bolts, contact surfaces shall be only primed with Inorganic Ethyl Zinc Silicate. Intermediate and final coat shall not be applied.

All field welds shall be left bare until final acceptance. In such cases, an area of about 50mm on both sides of the weld shall be left bare. After acceptance, these areas shall be painted with the full required paint system for that area.

Intercoat contamination shall be minimized by maintaining proper cleanliness and by applying intermediate and finish coats within the time period recommended by the MANUFACTURER. If contaminants are present, they shall be removed before applying succeeding coats.

Adhesion qualification test plates shall be prepared at the same time and under the same conditions as the production coating work.

#### **14.4.1 Spray Application**

Hose and containers shall be thoroughly cleaned before addition of new materials. The spray gun shall be held no closer than 200mm or more than 600mm from the surface to be coated. During application the spray gun shall always be held at a right angle to the substrate. Each pass shall overlap the previous one by 50 percent. In order to achieve a uniform application, when large surface areas are being coated, spray application shall be made in two directions so that the passes are at right angles to each other. Pressures and spray fan shall be adjusted so that the optimum spray pattern is utilized for the surface being coated.

#### **14.4.2 Brush Application**

Application with brush is acceptable when the materials to be applied are suitable for brush application and under the following conditions:

- When areas cannot be properly coated by spray for any reason.
- When spray application is difficult due to location of work and wind conditions.
- For touch-up or repair of localized damaged paint or to areas of incorrectly applied paint.
- For painting of stripe coat When applying the initial coat of paint to corners, edges, crevices, holes, welds or other irregular surfaces prior to spray application.
- The number of coats shall be adjusted to the dry film thickness to match

Paint brushes used shall be of a style and quality that will permit appropriate application of the material being applied.

Material applied by brush shall be smooth, uniform in thickness, without any apparent surface defects such as brush marks, runs, sags, or curtains.



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#### 14.4.3 Roller Application

Roller application shall only be used with written approval from BGL. Sufficient coats shall be applied to build up the dry thickness of each coat(s) to the specified value for spray application.

Roller application may be used only when:

- Spraying is not an option.
- Primer coat is applied by brush.
- Paint application by roller method is acceptable to paint MANUFACTURER and is in accordance with the application data.

#### 15.0 REPAIRS

##### 15.1 General requirements

VENDOR shall submit a repair procedure for each coating system.

Before application of any further coat of material, all damage to previous coats shall be repaired.

Adhesion qualification tests shall be mandatory and shall be performed to determine the compatibility for each repair method.

Surface preparation shall wherever possible be carried out by dry blast cleaning. If dry blast cleaning is not specified or not feasible (e.g. due to limited access, risks of damage to equipment, light gauge steel, the proximity of electrical components or instrumentation), then manual cleaning shall be performed.

Manual cleaning shall be performed using hand wire brushes, or mechanically operated tools (grinders, chippers or wire brush) in accordance with ISO 8504-3. The surface shall be left roughly abraded, but a burnished surface is not acceptable.

If the surface being prepared lies adjacent to a sound coated surface which is not to be repaired, the surface preparation shall overlap the coated surface by at least 25mm. The remainder of existing coated surface shall be properly protected with shields or screens to prevent any possible damage to the coating.

Inorganic zinc primer shall not overlap adjacent intermediate and finish coats.

Areas with inadequate coating thickness shall be thoroughly cleaned and, if necessary, abraded and additional compatible coats applied until they meet this Specification. These additional coats shall blend in with the final coating on adjoining areas. Colour match shall be achieved.

##### 15.2 Coating Damage Not Exposing Substrate Surface

Surfaces to be overcoated, which become contaminated or damaged, shall be cleaned by solvent cleaning and/or lightly brush blasted, ensuring that the surface is free of all contaminations, prior to applying the following coats. After cleaning, any residual contaminants shall be removed by dry compressed air and wiped by hand with clean, dry rags. The coating around the damaged area shall be chamfered, using an approved method, to ensure continuity of the patch coating. The full coating system shall then be reapplied strictly in accordance with the Specification.

##### 15.3 Coating Damage Exposing Substrate Surface

The damaged area shall be recleaned as originally specified for that item and the full coating system reapplied in accordance with the APPLICATION DATA. The recleaning shall carry over onto tightly adhering surrounding coating for not less than 25mm all around and the edges shall be chamfered by a method approved by BGL.

##### 15.4 Repair of Zinc Silicate Primer

Damaged surfaces of zinc silicate primer shall be cleaned to remove all loose materials and blast cleaned with a portable vacuum blast cleaning unit. The surface shall be coated with one coat of the primer which is generically same as the damaged primer.

If blast cleaning is not practical, power tool cleaning may be used subject to BGL and VENDOR approval. In such cases, subject to operating temperature limitations, one pack recoatable zinc primer may be used in lieu of zinc silicate primer



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subject to BGL and VENDOR approval.

**15.5 Repair of Fully Cured Epoxy Coating**

In case of repairing damage to fully cured epoxy coatings and/or painting of a fully cured and aged epoxy coating, the coating work shall only be carried out after the surface of the fully cured epoxy to be coated has been suitably abraded to provide adequate adhesion for the coating to be applied.

**16.0 INSPECTION AND TESTING**

**16.1 GENERAL**

BGL and VENDOR shall have the right to inspect the paint work at all stages of preparation and to reject any tools, materials, equipment or work which do not conform to this Specification.

Before painting activities commence, the VENDOR shall submit an inspection procedure for approval by BGL. VENDOR shall employ a qualified Painting Inspector whose resume shall be approved by BGL.

All items coated by the APPLICATOR shall be inspected on arrival and damaged areas shall be repaired by VENDOR. In case there is damage of more than 5% of the surface areas or finish coat appearance is not acceptable, BGL shall in their sole discretion, instruct the VENDOR to apply an additional finish coat to improve appearance at no cost to BGL.

**16.2 Inspection Instruments**

The following instruments shall be calibrated and maintained by the VENDOR and available for use by BGL and VENDOR.

<b><u>INSPECTION ITEM</u></b>	<b><u>INSPECTION INSTRUMENT</u></b>
Surface Profile	Keane-Tator Surface Profile Comparator or Testex Press-O-Film*
Surface Cleanliness	SSPC-Vis-1 or ISO 8501-1
Wet Film Thickness	Nordson Wet Film Thickness Gauge
Dry Film Thickness	Mikrotest Dry Film Thickness Gauge* (with SSPC-PA-2 as a guide)
Temperature and Humidity	Gardner Certified Hygrometer and Temperature Indicator* Surface Temperature PTC E0092.00 (-20°C to 120°C)
Adhesion	Elcometer 106*
Salt Contamination	Salt Meter SCM 400

Equivalent inspection instrument can be used upon approval of BGL and VENDOR.

\* Test instruments shall be calibrated on a routine basis (depending on frequency of use) and maintained in good working condition at all times.

All coatings applied on the process side of equipment and piping and on buried structures, piping and equipment shall be holiday tested using a high voltage spark tester. The test voltage shall be 5 volts per micron of film thickness or as recommended by the paint manufacture should this be different. The equipment shall consist of a wire brush or for long lengths of round piping a rolling electrode may be used. All indications shall be abraded down to bare metal and the appropriate repair system applied to the satisfaction of the BGL.

Holiday testing shall be applied in accordance with the requirements of ASTM D 5162.

**16.3 Before Surface preparation**

Prior to initiation of blast cleaning, the VENDOR shall confirm that all environmental and safety requirements relating to blast cleaning have been met.

**16.4 Before and during paint application**



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Prior to painting, all surfaces shall be visually inspected to assure that the proper surface conditions necessary for painting exist. **VENDOR** shall:

- Verify and document that surface preparation cleanliness and surface profile are as specified. Surface profile testing shall be carried out by utilization of a **VENDOR** approved instrument and in accordance with ISO 8503-2.
- Verify that blast cleaned surfaces have been kept free of contamination. Tests to indicate the presence of chlorides and dust shall be carried out in accordance with ISO 8502-1, ISO 8502-2 and ISO 8502-3, respectively.
- Just prior to painting, inspect surface cleanliness and profile again to assure that no surface imperfections, moisture, or other contaminants are present.
- Verify that elapsed time from blasting has not exceeded specified time between blasting and painting.
- Verify that surfaces not to be coated are masked off or otherwise protected.
- Document the air temperature, humidity and substrate surface temperature.
- Verify that storage, mixing, thinning and application of primer, intermediate and finish coats are in accordance with the **APPLICATION DATA**.
- Verify by spot checking the wet film thickness (WFT) during the course of the paint application to ensure that the film thickness is being maintained. These checks shall be performed according to the procedure described in ISO 2808, Method No. 7B.
- Verify by spot checking the curing of all zinc silicate based coatings has been successfully accomplished prior to overcoating using a technique submitted to and approved by **VENDOR**.

**After Painting**

After application of coatings, the **APPLICATOR** shall verify and document dry film thickness of the primer, intermediate and finish coats. ISO 2808, Method No. 6 describes the test techniques suitable for measurement of the dry film thickness.

Each coat of a system and the complete system shall be visually inspected for adhesion and surface imperfections. If upon visual inspection, loss of adhesion is suspected or found, an adhesion test shall be made. In all cases, complete system involving silicone based paint shall be tested for adhesion by pull-off test method. The adhesion of the primer to the steel substrate and the intercoat adhesion of the subsequent coat(s) after curing shall be determined by the application of either a cross-cut test in accordance with ISO 2409 to maximum grade C2 or a pull-off test described in ISO 4624. Coatings, applied to blast cleaned carbon steel, exhibiting an adhesion of less than 15 kg/cm<sup>2</sup> shall be rejected and repaired.

Each painting system and repair method shall be tested on a test plate for an adhesion qualification test. The test plate shall be coated at the same time and under same conditions as the production work. Repairs made in the field shall be documented and re-inspected as outlined above.

**17.0 INSPECTION RECORDS AND REPORTS**

Prior to final acceptance of the paint work, an inspection shall be made. The **VENDOR** and **BGL** shall both be represented and they shall sign an inspection report agreed upon by all parties. The report shall consist, as a minimum, of the following:

- Names of the **VENDOR** and the responsible personnel.
- Dates when work was carried out.
- Equipment and techniques used.
- Materials receipt condition.
- Type and calibration of instruments used.
- Weather and ambient conditions.
- Painting periods.
- Condition of surface before preparation.
- Tools and methods used to prepare surface.
- Condition after preparation.
- Information on systems being applied.



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- Mixing and testing prior to application.
- Paint application techniques.

**APPENDIX 1**  
**TABLE 1 - PAINTING SCHEDULES FOR EXTERNAL SURFACES**

Items to be coated	Operating temp, °C		Paint System Number for	
	From	To	Uninsulated surfaces	Surfaces to be Insulated
<b>Carbon Steels and Low Alloys (<math>\leq 9\%</math> Cr) steels</b>				
Equipment, piping, storage tanks and structural steel with exception of items specifically listed below (note 6)	-45	Below ambient	32	9
	Ambient	100	2	1
	101	200	3	1
	201	400	4	1
	401	538	8	8
Structural steel to be fireproofed	Ambient	100	6 (Note 8)	-
External fasteners of piping and equipment	Ambient	200	Appendix 3	-
	201	538	8	-
Buried tanks and piping	Ambient	100	25	-
Storage tank plates				
Exterior surfaces of plates (non-process sides) requiring temporary protection	Ambient	100	Note 9	-
Process side of the tank plates (note 7)	-	-	-	-
Floor plate surfaces which will be in contact with soil (Note 2)	Ambient	100	10	-
Top of stack (Red bands)	Ambient	200	3	-
<b>Galvanised Surfaces (Note 1)</b>				
Items such as ladders, ladder cages, handrails, cable trays (not fireproofed) etc. to be painted	Ambient	100	13	-
<b>Stainless Steels (Note 5)</b>				
All items exposed to cryogenic conditions	-196	Below ambient	24	24 (Note 6)
All items exposed to atmosphere	Ambient	100	23	24
	101	100	26	26
<b>Copper and its Alloys</b>				
All items exposed to plant outside environment	Ambient	100	23	-
<b>Glass or Fibre Reinforced Plastic</b>				
Piping (See Note 4) Equipment	Ambient	100	31	-

Notes:

1. Open galvanised gratings unless otherwise specified shall not be painted.
2. Tank floor plate shall be masked off 100mm from the edge to prevent coating application. Surfaces coated on the soil side shall be holiday tested and repaired, if necessary, before installation.
3. Normally, Inconel and Incoloy surfaces shall not be painted. However, if there is a requirement as specified on the PROJECT drawings, these surfaces shall be painted in accordance with this TABLE.
4. For items supplied with galvanising, all galvanised surfaces exposed to atmosphere must be top coated with Paint System No. 13 (see Table 2, Appendix 1). For galvanising requirements, see Project Specification No. 2007-58-SP-205.
5. Vendor shall be required to certify coating acceptability for operating temperature below ambient and for surfaces to be cold insulated.
6. After tank erection, the entire tank shall be blast cleaned and paint shall be applied.



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7. System subject to approval by fire protection manufacturer.



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**APPENDIX 1**

**TABLE 2 - PAINT SYSTEMS**

CS - Carbon steel and low alloys ( $\leq 9\%$  chrome), Cu - Copper and its alloys, SS - Stainless steel and high Nickel carbon steel,  $\mu$  - Dry film thickness in microns.

Paint System	Applicable to Substrate Materials	Surface Preparation	PAINT SYSTEM		
			PRIMER COAT	INTERIM. COAT	FINISH COAT
1	CS	Sa2½	Alkyl zinc silicate primer (75 $\mu$ )	–	–
2	CS	Sa2½	Zinc rich epoxy primer (75 $\mu$ )	Polyamide epoxy (125 $\mu$ )	Polyurethane (75 $\mu$ )
3	CS	Sa2½	Alkyl zinc silicate primer (75 $\mu$ )	Silicone acrylic (30 $\mu$ )	Silicone acrylic (30 $\mu$ )
4	CS	Sa2½	Alkyl zinc silicate primer (75 $\mu$ )	Silicone aluminium (25 $\mu$ )	Silicone aluminium (25 $\mu$ )
6	CS	Sa2½	Zinc rich epoxy primer (50 $\mu$ )	Polyamide MIO epoxy (125 $\mu$ )	
7	CS	Sa2½	Alkyl zinc silicate primer (25 $\mu$ ) (Preconstruction primer)	–	–
8	CS	Sa2½	Silicone aluminium (25 $\mu$ )	–	Silicone aluminium (25 $\mu$ )
9	CS, SS	Sa2½ for CS. See Section 13.6 for SS	Polyamide epoxy primer (50 $\mu$ )	Polyamide MIO epoxy (100 $\mu$ )	Polyamide MIO epoxy (100 $\mu$ )
10	CS	Sa2½	Pure epoxy (200 $\mu$ )	–	Pure epoxy (200 $\mu$ )
11	CS	Sa2½	Flakeglass polyester (750 $\mu$ )		Flakeglass polyester (750 $\mu$ )
12	CS	Sa2½	Flakeglass polyester (1000 $\mu$ )	–	
13	GALV (HOLD)	See Section 13.5	Polyvinyl butyral wash (10 $\mu$ )	Polyamide MIO epoxy (40 $\mu$ )	Polyurethane (75 $\mu$ )
23	SS, Cu	See Section 13.6	Polyamide epoxy primer (50 $\mu$ ) (Must be zinc free)	Polyamide epoxy (125 $\mu$ )	Polyurethane (75 $\mu$ )
24	SS	See Section 13.6	Polyurethane primer (50 $\mu$ ) (Must be zinc free)	Polyamide epoxy (125 $\mu$ )	Polyamide epoxy (125 $\mu$ )
25	CS	Sa2½	Polyurethane - tar (750 $\mu$ )	-	Polyurethane -tar (750 $\mu$ )
26	SS	Sa2½	Flakeglass vinyl ester (600 $\mu$ )	-	-
32	CS, SS	Sa 2½ for CS see Section 13.6 for SS	Polyamide epoxy primer (50 $\mu$ )	Polyamide M10 epoxy (100 $\mu$ )	Polyurethane (75 $\mu$ )

Note:

1. Thickness of inorganic zinc primer shall be within the range 65-100 microns. In case, the DFT of the inorganic zinc is outside the range 65-100 microns, BGL/VENDOR at their sole discretion may instruct re-blasting/ re-application of primer. Alkyl zinc silicate shall be two-pack type. The requirements of the surface preparation shall be subject to approval by BGL/VENDOR.
2. Precautions shall be taken against over thickness application of silicone resin based coats. Adhesion tests are mandatory. High temperature finish coating must be capable of "cold curing" to handle ambient temperature.



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3. Paint System No. 7 is for temporary protection only. If further painting is required, this coating shall be removed by blast cleaning and surfaces shall be tested according to ISO 8502-1 to 4.
4. Polyamide epoxy can be replaced by polyamide MIO epoxy to provide longer coating interval.
5. Inorganic zinc primer from Paint System No. 2 & No. 6 shall be sealed before applying the intermediate coat with an appropriate sealer paint material as recommended by the paint manufacturer.
6. Where polyamide MIO epoxy is used as an intermediate coat, this is to be applied within 48 hours of the application of the primer.



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**LIST OF VENDORS FOR BOUGHT-OUT ITEMS**

**1) ELECTRONIC VOLUME CORRECTOR**

- 1) M/s Honeywell Elster
- 2) M/s Pietro Fiorentini
- 3) M/s ELCOR
- 4) M/s PLUM
- 5) M/s Dresser
- 6) M/s Intron
- 7) M/s Romet
- 8) M/s Vemm tec

**2) TURBINE METERS**

- 1) M/s Daniel (Emersion)
- 2) M/s RMG (Germany)
- 3) M/s Rockwin Flowmeter (India)
- 4) M/s ITRON
- 5) M/s Honeywell Elster
- 6) M/s Pietro Fiorentini
- 7) M/s Dresser
- 8) M/s Intron
- 9) M/s Vemmtec Messtechnik GmbH

**3) BALL VALVES, Pipe Line (API 6D)**

- 1) M/s Hopkinsons Limited (UK)
- 2) M/s O.M.S. Saleri (Italy)
- 3) M/s Pibi Vieste SPA (Italy)
- 4) M/s Nuovo Pignone (Italy)
- 5) M/s Perar SPA (Italy)
- 6) M/s Larsen & Toubro Ltd. (New Delhi)
- 8) M/s Pietro Fiorentini (Italy)
- 9) M/s Raimondi Valve S.p.A. (Italy)
- 10) M/s VIZA Valves (China)
- 11) M/s Cooper Cameron Valv Italy SRL-FRM, Italy
- 12) M/s Fraz Schuck GMBH, Germany (Formerly Borsig)
- 13) M/s ITAG, Germany
- 14) M/s Kitamura Valve manufacturing Co. Ltd
- 15) M/s MSA A.S.
- 16) M/s PCC Ball Valves SRL
- 17) M/s Petrol Valves SRL
- 18) M/s Tormene Gas Technology SPA (VALVITALIA)
- 19) M/s Virgo Engineers Ltd. India
- 20) M/s Weir Valves & Controls UK Ltd.
- 21) M/s Microfinish Valves Ltd, India
- 22) M/s Flowchem, India



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- 23) M/s Flow Control Technologies (France)
- 24) M/s Friedrich Krombach GMBH &CO.Kg
- 25) M/s Grove Valve And Regulators Co (USA)
- 26) M/s JCFabrica DE Valvulas S.A. (Sharjah)
- 27) M/s Guichon Valves (France)
- 28) M/s Hindle Cockburns Limited
- 29) M/s Cameron Italy SRL

**4) PLUG VALVES**

- 1) M/s Grove Dresser Italia S.p.A. (Italy)
- 2) M/s Nordstrom Valves Inc. (USA)
- 3) M/s Serck Audo Valves (England)
- 4) M/s Breda Energia Sesto industria SPA (Italy)
- 5) M/s Fisher Xomox Sanmar Ltd. (Chennai)
- 6) M/s L&T (Audco India) Ltd. (New Delhi)

**5) GLOBE VALVES**

- 1) M/s BDK Engineering Industries Limited, Hubli, (Karnataka)
- 2) M/s Datre Corporation Limited Kolkata
- 3) M/s KSB Pumps Ltd, NOIDA
- 4) M/s Larsen & Toubro Ltd.
- 5) M/s KF Industries Alberta, Canada
- 6) M/s Ornate Valves Pvt. Ltd., Mumbai
- 7) M/s Panchvati Valves & Flanges Pvt. Ltd., Mumbai
- 8) M/s Shayburg Valves Pvt. Limited, Navi Mumbai
- 9) M/s A.V. Valves Ltd. Agra
- 10) M/s Shalimar Valves Pvt. Ltd., Navi Mumbai
- 11) M/s JC Fabrica de Valvulas, S.A Barcelona Spain

**6) CHECK VALVES**

- 1) M/s Malbraque (France)
- 2) M/s Mannesmann Demag (Germany)
- 3) M/s Petrol Valve (Italy)
- 4) M/s True Flow Rona (Belgium)
- 5) M/s L&T (Audco) India Ltd. (Chennai)
- 6) M/s BHEL, OFE & OE Group (New Delhi)
- 7) M/s Advance valves Pvt Ltd.
- 8) M/s A V Valves Ltd.
- 9) M/s BDK Engineering Industries Ltd. India
- 10) M/s Foress Engg (I) Ltd. (Aurangabad)
- 11) M/s Valvitalia Italy
- 12) M/s KSB Pumps Ltd. Loimbattore), India
- 13) M/s Nandina Iron & Steels
- 14) M/s Nitcon valve Industries Pvt. Ltd. India
- 15) M/s Oswal Industries Ltd. India
- 16) M/s Panchvati Valves & Flanges Pvt. Ltd. India
- 17) M/s Petrochemical Engineering Enterprises, India
- 18) M/s Sakhi Engineers Pvt. Ltd.
- 19) M/s Shalimar Valves Pvt. Ltd.
- 20) M/s Steel Strong valves India Pvt. Ltd., India

**7) CONTROL PANEL & ACCESSORIES**

- ) M/s Keltron Controls Ltd., Kerala



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- 2) M/s ELECHMEC Corporation Ltd., Mumbai
- 3) M/s Industrial Controls & Appliances Pvt. Ltd.,
- 4) M/s Alstom System Ltd., Noida
- 5) M/s ABB Instruments Ltd., New Delhi
- 6) M/s Emerson Process Management (I) Pvt. Ltd.
- 7) M/s Larsen & Toubro Ltd.
- 8) M/s Control & Automation, New Delhi
- 9) M/s GE Fanuc Systems Pvt. Ltd., New Delhi
- 10) M/s Rockwell Automation (I) Ltd., Ghaziabad
- 11) M/s Honeywell Automation Ltd.
- 13) M/s RITTAL
- 14) M/s Pyrotech Elcronics Pvt Ltd.
- 15) M/s Positronics Pvt Ltd.
- 16) M/s Electronics Corporation of India Ltd.

**8) SS FITTINGS / TUBING**  
**(No other makes shall be acceptable)**

- 1) M/s SWAGELOCK (USA)
- 2) M/s PARKER (USA)
- 3) M/s HOKE (USA)
- 4) M/s Sandvik

**9) JUNCTION BOXES AND CABLES GLANDS**

- 1) M/s EX-PROTECTA
- 2) M/s FLAMEPROOF CONTROL GEARS
- 3) M/s BALIGA
- 4) M/s FLEXPLO ELECTRICALS

**10) CONTROL AND SIGNAL CABLES**

- 1) M/s ASSOCIATED CABLES
- 2) M/s ASSOCIATED FLEXIBLES & WIRES (PVT) LTD
- 3) M/s UNIVERSAL Cables Ltd,India
- 4) M/s DELTON Cables Ltd, India
- 5) M/s BROOK
- 6) M/s KEI Industries Ltd INDIA
- 7) M/s CMI Limited
- 8) M/s - Cords Cable Industries Ltd, India
- 9) M/s Elkay Telelinks (P) Ltd., India
- 10) M/s Udey Pyrocables Pvt Ltd, India
- 11) M/s Goyolene Fibres (I) Pvt Ltd, India
- 12) M/s Netco Cable Industries Pvt Ltd, India
- 13) M/s NICCO Corporation Ltd, India
- 14) M/s Paramount Communications Ltd, India
- 15) M/s Polycab Wires Pvt Ltd, India
- 16) M/s Radiant Cables Pvt Ltd, India
- 17) M/s Reliance Engineers Ltd., India
- 18) M/s Suyog Electricals Ltd, India
- 19) M/s Thermo Cables Ltd
- 20) m/s Udey Pyrocables Pvt. Ltd.



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**11) BARRIERS**

- 1) M/s MTL
- 2) M/s STHAL
- 3) M/s P&F
- 4) M/s Phoenix

**12) FASTENERS**

- 1) AEP Company, India
- 2) Boltmaster India Pvt. Ltd. India
- 3) Deepak Fasteners Limited India
- 4) Fasteners & Allied Products Pvt. Ltd.
- 5) Hardwin Fasteners Pvt. Ltd. India
- 6) J.J. Industries India
- 7) Multi fasteners Pvt. Ltd. India
- 8) Nexo Industries, India
- 9) Pioneer Nuts and Bolts Pvt. Ltd.
- 10) Precision Auto Engineering Works, India
- 11) Sandeep Engineering, India
- 12) Syndicate Engineering Industries, India.

**13) Fitting Block Forged-Carbon Steel**

- 1) Eby Fasteners, India
- 2) Leader valves Ltd. India
- 3) M.S. Fitting Mfg. Co. Pvt. Ltd. India
- 4) R. N. Gupta & Co. Ltd. India

**14) Fittings from Seamless Pipe-Carbon Steel**

- 1) CD Engineering Co., India
- 2) CD Industries (Ghaziabad), India
- 3) Chaudhry Hammer Works Ltd, India
- 4) Echjay Industries Pvt Ltd, (Rajkot), India
- 5) Golden Iron & Steel Works, India
- 6) J.K. Forgings, India
- 7) JAV Forgings (P) Ltd, India
- 8) Metal Forgings Pvt Ltd, India
- 9) Pradeep Metal Limited, India
- 10) Punjab Steel Works, India
- 12) R.N. Gupta & Co. Ltd, India
- 13) Uma Shankar Khandelwal & Co., India

**15) Gaskets Spiral Wound**

- 1) IGP Engineers Pvt. Ltd., India
- 2) Madras Industrial Products, India
- 3) Starflex Sealing India Pvt Ltd, India

**16) Pipe – Carbon Steel (Seamless) to ASTM STDS.**

- 1) BHEL (Trichy), India
- 2) Heavy Metals & Tubes Ltd (Mehsana), India
- 3) Indian Seamless Metal Tubes Ltd, Ahmednagar, India
- 4) Indian Seamless Metal Tubes Ltd, Baramati, India
- 5) Jindal Saw Ltd (Nashik Works), India
- 6) Mahalaxmi Seamless Ltd, India



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- 7) Maharashtra Seamless Ltd, India
- 8) Sainest Tubes Pvt Ltd, India
- 9) Wuxi Erquan Special Steel Tube Co. Ltd.

**17) Pipe - Carbon Steel to Indian Standards**

- 1) Advance Steel Tube Ltd., India
- 2) Asian Mills Pvt Ltd, India
- 3) BMW Industries Ltd(Bansal Mech Works) , India
- 4) Goodluck Steel Tubes Ltd, India
- 5) Indus Tube Limited, India
- 6) Jindal Pipes Ltd, India
- 7) Jindal Saw Ltd (Kosi Works) , India
- 8) Lalit Profiles & Steel Ind Ltd. , India
- 9) Lloyd Metals & Engineers Ltd. , India
- 10) Maharashtra Seamless Ltd, India
- 11) Man Industries Ltd, India
- 12) Mukat Tanks & Vessels Ltd., India
- 13) North Eastern Tubes Ltd.
- 14) Pratibha Pipes & Strl Pvt Ltd
- 15) PSL Limited (Nani Chirai)
- 16) PSL Limited (Chennai)
- 17) Ratnamani Metals & Tubes Ltd
- 18) Sri Sarbati Steel Tubes Ltd
- 19) Steel Authority of India Ltd
- 20) Surindra Engineering Co Ltd (Rajpura), India
- 21) Surindra Engineering Co Ltd (Mumbai), India
- 22) Surya Roshni Ltd, India
- 23) Swastik Pipes Ltd,, India
- 24) The Tata Iron & Steel Co Ltd, India
- 25) Welspun Gujarat Stahl Rohren Ltd, India

**18) Pipe & Tubulars to API Standards**

- 1) BHEL (Trichy), India
- 2) Indian Seamless Metal Tubes Ltd, Ahmednagar, India
- 3) Indian Seamless Metal Tubes Ltd, Baramati, India
- 4) Jindal Pipes Ltd, India
- 5) Jindal SAW Ltd (Kosi Works)
- 6) Jindal SAW Ltd (Nashik Works)
- 7) Lalit Profiles & Steel Industries Ltd
- 8) Lloyds Metals & Engineers Ltd
- 9) Maharashtra Seamless Ltd, India
- 10) Man Industries (I) Ltd
- 11) Mukat Tanks & Vessels Ltd
- 12) Ratnamani Metals & Tubes Ltd
- 13) Steel Authority of India Ltd
- 14) Surindra Engineering Co Ltd (Mumbai), India
- 15) Surya Roshni Ltd, India
- 16) Welspun Gujarat Stahl Rohren Ltd, India

**19) Pipe - Carbon Steel (Welded) to ASTM Standards**

- 1) Jindal Saw Ltd (Kosi Works) , India
- 2) Lalit Profiles & Steel Ind Ltd. , India
- 3) Man Industries Ltd, India
- 4) Mukat Tanks & Vessels Ltd., India
- 5) Ratnamani Metals & Tubes Ltd
- 6) Surindra Engineering Co Ltd (Mumbai), India



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**20) Field Instruments (P, DP, F, L, T)**

- 1) ABB Ltd (Faridabad), India
- 2) ABB Automation Ltd, India
- 3) Emerson Process Mgmt Asia Pacific PTE Ltd,
- 4) Emerson Process Mgmt India Pvt Ltd,
- 5) Fuji Electric Instruments Co Ltd
- 6) Honeywell Automation India Ltd,
- 7) Honeywell Inc.
- 8) Yokogawa Electric Corp.
- 9) Yokogawa India Ltd
- 10) Invensys India Pvt.Ltd

**21) Instrument Valves & Manifolds**

- 1) Anderson Greenwood Crosby
- 2) Astec Valves & Fittings Pvt Ltd, India
- 3) Aura Inc.
- 4) Autoclave Engineers Fluid Components
- 5) Chemtrols Engineering Ltd, India
- 6) Circor Instrumentation Ltd
- 7) Excel Hydro Pneumatics Pvt Ltd, India
- 8) Excelsior Engg Works, India
- 9) Ham-Let (Israel-Canada) Ltd
- 10) Hyd-Air Engg. Works Lonavala, India
- 11) Micro Precision Products Pvt Ltd, India
- 12) Parker Hannifin Corporation
- 13) Precision Engineering Industries, India
- 14) Prime Engineers
- 15) Swagelok Co.
- 16) Swastic Engineering Works, India
- 17) Technomatic (India) Pvt Ltd, India
- 18) Waree Instruments Ltd
- 19) M/s Comfit & Valves Pvt.Ltd
- 20) M/s Arya Crafts & Engg.Pvt. Ltd

**22) Junction Boxes (Flame Proof)**

- 1) Baliga Lighting Equipments (P) Ltd, India
- 2) FCG Flameproof Control Gears P. Ltd., India
- 3) FCG Power Industries Pvt Ltd, India
- 4) Flameproof Equipments Pvt Ltd, India
- 5) Flexpro Electricals Pvt Ltd, India
- 6) Govan Industries (India) P Ltd, India
- 7) Prompt Engineering Works, India
- 8) Sudhir Switchgears Pvt Ltd, India

**23) Pressure Gauges**

- 1) AN Instruments Pvt Ltd
- 2) Baumer Bourdon Haenni S.A.S
- 4) British Rototherm Co Ltd
- 5) Budenberg Gauge Co Ltd
- 6) Dresser Inc
- 7) Forbes Marshall (Hyd) Pvt Ltd
- 8) General Instrument Consortium
- 9) H. Guru Instruments (South India) Pvt Ltd
- 10) Manometer (India) Pvt Ltd
- 11) Nagano Keiki Seisakusho Ltd
- 12) Hirlekar Precision, India
- 13) Waaree Instruments Ltd



Bhagyanagar Gas Ltd.  
BHAGYANAGAR  
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**Tender for Procurement of Turbine Flow Meter (Custody Meter) and EVC at Mother Station to get 4-20 mA flow signal to automatize Odorization Unit at Vijayawada GA  
Bid Document No. BGL/713/2025-26**

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- 14) Walchandnagar Industries Ltd (Tiwac Divn)
- 15) Wika Alexander Wiegand & Co GmbH
- 16) Wika Instruments India Pvt Ltd
- 17) Ashcroft India Pvt Ltd.

**24) Temperature Elements, Thermo-wells**

- 1) ABB Automation Ltd
- 2) Altop Industries Ltd
- 3) Bourdon Haenni S.A.
- 4) Detriv Instrumentation & Electronics Ltd
- 5) General Instruments Consortium
- 6) Invensys Software Systems (S) PTE Ltd.
- 7) Japan Thermowell Co Ltd
- 8) Nagman Sensors Pvt Ltd
- 9) Tecnomatic SPA
- 10) Tempesen Instrument India Ltd
- 11) Thermo Electric Co. Inc.
- 12) Thermo-Couple Products Co
- 13) Thermo-Electra B.V.
- 14) Wika Alexander Wiegand & Co GmbH
- 15) Altop Industries Ltd., Baroda
- 16) M/s Nagman Sensors (Pvt.) Ltd.
- 17) M/s Pyro Electric, Goa



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**SECTION-10  
SCHEDULE OF RATES (SOR)**



Bhagyanagar Gas Limited

**PROCUREMENT OF TURBINE FLOW METER (CUSTODY METER) AND EVC AT MOTHER STATION TO GET 4-20mA FLOW SIGNAL TO AUTOMATIC ODORIZATION UNIT AT VIJAYWADA GA**

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**Bid Document No. BGL/713/2025-26**

BHAGYANAGAR GAS LIMITED						
Tender Name: Procurement of Turbine Flow Meter and EVC at Mother Station, Vijayawada GA						
Tender Documents No: BGL/713/2025-26						
SCHEDULE OF RATES (SOR)						
S.No	Description	Type	UOM	Qty.	Unit Price in Rs.	Total Price(Rs.)
A	A1	Design, Engineering, Supply, Supervision during Installation and commissioning of Turbine Flow Meter along with Meter Run Spool Pieces(Upstream & Downstream) TFM 6 Inch(DN150),300#,G400 AGA-7 based Meter Tube, RTD, PT, Thermowell and other Field Instrumentation with accessories including Wet Calibration as per enclosed specification	Custody Transfer Type 6Inch(DN150),300#,G400	No's	1	To be quoted in GeM Portal Only
A	A2	Supply of Electronic Volume Corrector for High Pressure Pipeline (0-49 Bar Operating Pressure) (Requirement: Flow rate signal:4-20mA) with stand/support and all required cables, sensors and accessories to connect and integrate with supplied TFM as per enclosed specification	With Modem, LF & HF Pulse Outputs	No's	1	To be quoted in GeM Portal Only
B	B1	Deputing Service Engineer for Commissioning Assistance and on Call Visit for Maintenance		Man days	2	To be quoted in GeM Portal Only
		<b>Total Excl. GST (Rs.)</b>				
		<a href="#">GST@%</a>				-
		<b>GST Amount</b>				
		<b>Total Amount Incl. GST (Rs.)</b>				



Bhagyanagar Gas Limited

**PROCUREMENT OF TERBINE FLOW METER (CUSTODY METER) AND EVC  
AT MOTHER STATION TO GET 4-20m A FLOW SINGAL TO AUTOMI  
ODORIZATION UNIT AT VIJAYWADA GA**

**Bid Document No. BGL/713/2025-26**

Volume II of II

**Total Amount Incl. GST (Rs.) In Words:**

Note: Quoted rate should be inclusive of Freight charge FOT site, Transit Insurance, Loading & Unloading.