

Dated: 30.07.2020

**REPLY TO PRE-BID QUERIES**

BIDDING DOCUMENT NO. : MEC/23R8/01/51/D2/T03/SU/6527  
 SUBJECT OF BIDDING DOCUMENT : SMART METERING SYSTEM

Sr. No.	PART / Section / Clause No.	Page No.	Clause Description	Bidder's Query	Reply to Bidder's Query
1)	SECTION – III C Cl.No 5.1	3 of 7	In case the Bidder is the AMR Manufacturer then the bidder must have supplied minimum 500 nos. of Automated Metering Reader System (AMR) under a single order in the last seven years reckoned from due date of bid opening. Necessary documentation as stated below is to be submitted in support of the same. Copy of Purchase Order / Work order along with its proof of execution i.e. execution certificate / Completion certification / payment certificate along with invoice / inspection report etc. issued by the purchaser/end user in support of supply of AMR in the last 7 (seven) years reckoned from due date of bid opening. The proof of execution should have cross-reference of the purchase order.	As we understand, AMR manufacturer can quote directly as Bidder with the overall qualification criteria as mentioned in Clause 5.1 (page 172 of 198). Pls confirm.	Bidder shall meet the criteria mentioned in Bid Evaluation Criteria (BEC). Additionally, the bidder shall also meet the criteria mentioned in SCC. Cl.5.1 / Cl.5.2. AMR manufacturer participating shall meet BEC & SCC criteria.  Tender conditions prevail.
2)	Section 1 Cl.No 1.3	17	The Bidder must have supplied the quantity as indicated below for each type of Natural Gas Meters under a single order in the last seven years reckoned from due date of bid opening: Domestic Natural Gas Meters of flow capacity G1.6 (2.5 SCMH) or above, design pressure up to 200 mbar - 11250nos.	As we understand that the Gas Meter being the qualification criteria and a Bidder can be an Indian Authorised supplier of Foreign Manufacturer (FM) depending on their policy to quote for abroad countries or in India. Thus, as the prime responsibility lies with FM, the mentioned criteria need to be complied by the manufacturer. Pls confirm whether our understanding is correct.	Bidder shall have the experience as indicated in qualification criteria. Shall be as per Tender.  Tender conditions prevail.

3)	Section 1 Cl.No 1.2.3	20	Proof of Manufacturer for Indian authorized supplier of Foreign Manufacturer of Natural Gas Meters.	As we understand, in case Bidder is an Indian Authorised supplier of Foreign Manufacturer (FM) then as the sole responsibility lies with FM, the mentioned documents under 1.2.3 criteria need to be complied by the manufacturer. Pls confirm whether our understanding is correct.	Bidder shall submit the documents as indicated in the tender. Shall be as per Tender. Tender conditions prevail.
4)	Section 1 Cl. No 1.3	20	Experience Criteria for the Bidder	As we understand, the related documents need to be supplied by the prime responsibility holder i.e. Foreign Manufacturer (in case if bidder is Indian authorised supplier). Pls confirm.	Bidder shall have the experience as indicated in qualification criteria. Shall be as per Tender. Tender conditions prevail.
5)	SECTION – III C  CI No. 4.1	2 of 7	Delivery Period: The delivery will be LOT wise wherein 40% of item No. A.1 of the Price Schedule ordered quantities will be delivered within three months from date of FOA, 30% quantity shall be delivered within 5 months from date of FOA and balance 30% shall be delivered in 7 months from date of FOA, so that the total 100% of the ordered item quantity is supplied within seven months from date of FOA. The basis of delivery will be FOT site, Hyderabad, Vijayawada & Kakinada basis.	As you are aware that due to present scenario of Pandemic (COVID-19), entire Global manufacturing & logistics has been affected. Hence, there is huge uncertainty and delay in production of components & deliveries. At present we are facing delays by minimum 12-14 weeks from our vendors who deliver standard components. We have already been allowed by other CGDs to deliver their goods with delays of upto 14 weeks. Hence, we request BGL to allow deliveries by 24 weeks instead of 12 weeks for 1st Lot. And, 2nd & 3rd Lot could be kept at the same intervals. Pls confirm.	Shall be as per Tender. Tender conditions prevail.
6)	PART — III  2.0 SCOPE OF WORK  CI No. 1	4 of 21	Design, engineering, manufacturing, assembly, factory testing, inspection (as defined in the specification), marking & packaging, supply of smart metering system comprising of domestic natural gas meters, Meter Interface unit (MIU) with integral digital display, hand held units, software, forwarding, insurance, handling, transportation, loading / unloading at sites / designated store, integration & data exchange of supplied	As you understand that BGL Specifications asks for MIU with integrated display. We would like to inform you that the present day technology has been ever expanding and various technologies are introduced wherein local display is extended to mobile phone/tabs/etc. Thus, we request BGL to allow the data from the meter to be read via mobile phone using a suitable application. The unique advantage of the product is that any fitter/customer can visualize the meter	Shall be as per Tender. Tender conditions prevail.

			smart meters with existing HHU/DCU (walkby/ fixed) & existing smarter metering system / server i.e. Head End Software (HES) and client's Billing software with suitable software configuration / modification, commissioning for smooth operation from smart metering / AMR system and providing all related services, documentation, commissioning spares, training.	details on their Phone using a simple Application and without even taking risk of climbing at height. Hence we request BGL to allow integral or local display with the help of mobile application. We do confirm that all other specifications will be matched as per tender specifications and these latest devices are obviously with better features. Pls confirm.	
7)	PART — III 2.0 SCOPE OF WORK  CI No 11	5 of 21	Bidder shall also specify and include any hardware/software which are not specially mentioned but are required to complete the integration, commissioning, functioning of Smart metering system.	As we understand that the Bidder has to integrate to the existing server and hence, it might be needed to upgrade with additional 1-2TB HDD and/or 12-32GB RAM. Pls confirm whether this will be allowed.  As we understand that if any upgrade done on the existing server - Bidder will hold responsibility/warranty of only the Upgraded part component/software and not the entire (previously existing) server system. For eg. if Bidder add 1TB of HDD to the existing server then warranty could be claimed by BGL for this 1TB HDD from the Bidder. Pls confirm.	Hardware/software which are required to complete the integration, commissioning, functioning of Smart metering system shall be in Bidder's scope. Tender conditions prevail.  Tender conditions prevail.
8)	Section 2 GCC - GOODS CL.No 15	14	GCC-Goods Delivery & Documents	We are an Indian bidder manufacturing our meters out of India hence we request that Bill of lading should be considered as proof of delivery in all the cases.	Tender conditions prevail
9)	Annexure-V C.No 23	96	Form F-1 23. Offer no.	Kindly explain what do you mean by offer no. is it our quotation number or anything else?	Bidder's Quotation/offer reference number.
10)	Annexure-V C.No 4	110	Form F-9 4. Dispatch Point	Bidder would specify the dispatch point after receipt of delivery order.	Manufacture location
11)			Delivery period	Bidder would like to know the exact time period between 2 orders to plan logistics.	As per Delivery schedule given in Tender.
12)			SOR	In case of change in delivery locations after the PO then freight to be reimbursed on actual basis to the bidder.	Freight will be paid as per SOR rates for respective city for the quantity delivered.

13)	Section-III D Cl.No. 1.1.1.	7	1.1.1.A Payment terms	We request minimum 90% of payment within 30 of material receipt to stores and balance 10% within 90 days of the material receipt to stores, which is the practice with all CGDs.	Tender conditions prevail.
14)	PART — III Material requisition and data sheet.	20 of 21	Material requisition and data sheet	Meter life should be 10 years which is acceptable by all CGDs making the life 20 years will make the product highly costly while the ageing will be more.	Tender conditions prevail.
15)			Price variation	As we are going to import major portion of our supply we request to incorporate a USD fluctuation clause base lined at tender submission date which should be able to protect both BGL and successful bidder.	Tender conditions prevail.
16)				We request BGL to allow the bidder or its parent company to which it is an Indian subsidiary to meet the financial and technical criteria. The parent company will provide a confirmation and undertaking to meet all of the financial and technical support during the tenure of such contract.	Tender conditions prevail.
17)	Section 2 GCC - GOODS  Inspection, Testing & Expediting  Cl.No13.14	12	Arrangements for all inspections required by Indian Statutory Authorities and as specified in technical specifications shall be made by SELLER.	Bidder requests clarification that all travel related expenses would be absorbed by customers themselves.	Tender conditions prevail.
18)	Section 2 GCC - GOODS  Inspection, Testing & Expediting  Cl.No 13.15	12	Inspection & rejection of material	Bidder requests consideration actual conditions while raising such an rejection/replacement request and then decide the duration of pickup as our response will vary due to several conditions on ground and also request you to waive handling charges	Tender conditions prevails

19)	Section 2 GCC GOODS  Cl.No 38.	28	Fall clause	Bidder requests to kindly omit fall clause certificate.	Tender conditions prevails
20)	PART — III  Technical specifications		Technical Specification-BSNL network	Kindly allow usage LORA wan network which will not require any sim card and will meet the SLAs set by BGL	Shall be as per Tender. Tender conditions prevail.
21)	INVITATION FOR BID  C.No 4	5	The following documents is to be submitted in Original:  i) Tender Fee (if applicable) ii) EMD/Bid Security (if applicable) iii) Power of Attorney iv) Integrity Pact	In view of COVID-19 condition, the services of courier are delaying in delivery, we hereby request to accept the scanned copy at the time of bid submission, and we ensure the original documents will be submitted within 15 days from the bid submission date. Kindly accept the request.	Tender conditions prevail
22)	SECTION – III C  CI No. 4.1	2 of 7	4. COMPLETION SCHEDULE 4.1 Delivery Period:  The delivery will be LOT wise wherein 40% of item No. A.1 of the Price Schedule ordered quantities will be delivered within three months from date of FOA, 30% quantity shall be delivered within 5 months from date of FOA and balance 30% shall be delivered in 7 months from date of FOA, so that the total 100% of the ordered item quantity is supplied within seven months from date of FOA.	Kindly amend the clause as follows because of current market situation & shortage of raw material as well as manpower due to COVID-19.  The delivery will be LOT wise wherein 40% of item No. A.1 of the Price Schedule ordered quantities will be delivered within <del>Six three</del> months from date of FOA, 30% quantity shall be delivered within <del>8 5</del> months from date of FOA and balance 30% shall be delivered in <del>10 7</del> months from date of FOA, so that the total 100% of the ordered item quantity is supplied within <del>Ten seven</del> months from date of FOA.	Tender conditions prevail
23)	INVITATION FOR BID	5	J. BID DUE DATE AND TIME Bids must be received online before due date & time.	We request to extend the bid due date upto 14 Aug20 as we are working on the mandatory documents and same will reach to us up to 10thAug20. Kindly accept & extend the due date.	Being offline Tender, Hard copy of Bid in original & copy has to be submitted  Refer Corrigendum #1 for bid submission due date.

24)					
25)	INSTRUCTIONS TO BIDDERS [ITB]  37.Contract Performance Guarantee	58	37.Contract Performance Guarantee  Composite PBG of PO value	We request to accept the PBG on ex-works instead of PO value, as the GST part goes to Government, also it would be extra financial burden on the bidders.	Tender conditions prevail
26)			Eligibility Criteria Eligibility Criteria for the new entrants.	The clause for new entrants is missing from the tender, for fulfilling the eligibility criteria; we hereby request that there should be a clause for new comers also for awarding a min 20% of the total quantity. We also request, the PQR clause no 1.3 should not be applicable for a new entrant. Kindly accept.	Shall be as per tender. Tender conditions prevail.
27)	PART — III  2.0 SCOPE OF WORK  CI No 2,3	4 of 21	2.0 SCOPE OF WORK Wherever existing DCUs and walk-by handheld devices are used, the new domestic meters shall be able to communicate with the existing DCU and handheld device for further transmission of data to smart metering server. Integration of new MIUs with existing & new HHU / Mobile units so that meter reader can carry the same HHU/mobile device for existing and new meters.	We hereby request to remove the requirement of communication with the existing DCU due to the issue of existing DCU compatibility with the new DCU.	Shall be as per tender. Tender conditions prevail.
28)	PART — III  2.0 SCOPE OF WORK  CI No 4	4 of 21	Carrying out survey for relocation of existing data concentrator, if required to a new location so that data of new meters can also be fetched and recommendation of sites for the appropriate location for placing client's data concentrators.	As installation is excluded from the scope of work , we understand the relocation of existing data concentrator is not in the scope of bidder, kindly confirm.	Shall be as per tender. Tender conditions prevail.
29)	PART — III	4 of 21	Configuration / mapping / synchronization of meter MIU/AMR, HHU / handset (walk-by), DCU (fixed) for communication / data	We hereby request for acceptance of LoRa based communication AMR system also. We would like to highlight that LoRa is a much	Shall be as per tender. Tender conditions prevail.

	2.0 SCOPE OF WORK CI No 5		exchange and Configuration of meter AMR / HHU / handset, DCU for communication / data exchange with metering software server on GPRS/GSM and further communication / data exchange to client's billing software server including manpower, tools & tackles.	better technology with respect to GPRS/GSM. LoRa gives better connectivity and data accuracy. LoRa is well acceptable & proven technology locally as well as internationally for AMR based projects. We request Kindly include the LoRa along with GPRS/GSM.	
30)	PART — III 2.0 SCOPE OF WORK CI No 8	5 of 21	Supply of consumables, mounting accessories, commissioning spares, etc.	Kindly arrange to provide the Drawing of mounting accessories, for better understanding.	Refer Cl.6.2 A 9 of TS
31)	PART — III Technical Specification. CI No 12	16 of 21	12.0 DOCUMENTS TO BE FURNISHED WITH SUPPLY Approval documents (issued by reputed third party inspection agency) for establishing conformity to the requirements for installations in hazardous area classification zone 2 (ATEX category 3).	The Meter related certifications will be provided along with the bid however the Atex approval which is specific hence should be allowed to be submitted before the commencement of first lot.	Documents as indicated in Cl. 4.1 & 4.2 of TS shall be submitted along with the bid. Shall be as per tender. Tender conditions prevail.
32)	PART — III Technical Specification. CI No 11 INSPECTION PLAN	15 of 21	11.0 INSPECTION PLAN  iii) Meter shall be tested for Meter reading not tampered with the external source including any capacity magnet	The capacity of the Magnet cannot be left open ended hence we would request that the meter should be immune upto 0.2T AC magnet, which is easily available, kindly accept.	Shall be as per tender. Tender conditions prevail.
33)	PART — III Technical Specification. 6.2 NEW METERS	12 of 21	6.2 NEW METERS SPECIFICATIONS A. NATURAL GAS METER  9. The meters shall be supplied with all mounting accessories i.e. tamper-proof seals, screws, wall- mounting brackets etc. End connection shall be protected by	Kindly share Drawing of mounting accessories & list.	Refer Cl.6.2 A 9 of TS

	SPECIFICATI ONS		Plastic caps. However, the details for the same shall be finalized during engineering.		
34)	PART — III  Technical Specification.  6.2 NEW METERS SPECIFICATI ONS  B.AUTOMATI C METER READING (AMR) SYSTEM	12 of 21	The power shall be supplied to the Meter Interface Unit (MIU) by a lithium battery replaceable. Bidder / MIU manufacturer shall warrant that any battery provided and installed in the MIU shall be free from design and manufacture defects. Bidder shall submit the design calculation along with the offer in support of battery design life. Bidder to consider periodicity of meter readings as daily. Battery Life should be at least 7 years for MIU from the date of supply. Minimum battery life for DCU must be 5 years. The MIU/DCU battery shall be encapsulated inside the unit casing to avoid tampering or to disconnect power supply.	We hereby request for acceptance of LoRa based communication AMR system also. We would like to highlight that LoRa is a much better technology with respect to GPRS/GSM. LoRa gives better connectivity and data accuracy. LoRa is well acceptable & proven technology locally as well as internationally for AMR based projects. We request Kindly include the LoRa along with GPRS/GSM.	Shall be as per tender. Tender conditions prevail.
		13 of 21	5. The MIU shall be capable of storing minimum 60 days daily data log having daily flow or meter reading, battery status, occurrence of tamper events, MIU health status, communication failure.		
		13 of 21	7. For walk-by and fixed type system, an RF-based end point communication module shall capture the pulses from the Meter Index and transfer the data to Handheld Unit/ Data Concentrator Unit (DCU) installed in the vicinity.		
		13 of 21	8. Handheld Unit/ Android mobile/ Data Concentrator Unit device shall be able to communicate and transfer data over GSM/ GPRS network on secured communication mode with data encryption to prevent intruder access		



		13 of 21	13. Any services related to configuration of MIU and hand held device for remote meter reading and from data from hand held to client's Server in a suitable file format as desired, is in bidder's scope.	Instead of HHU , Gateway can be provided for communication & Format shall be as per the requirement, kindly accept. We request to share the format also.	Shall be as per tender. Tender conditions prevail.
35)	5.0 DESIGN BASIS	6 of 21	5.1 Design Basis Walk-by/ Drive-by type Smart Metering System sending data from Meter Interface Unit to a Handheld Unit/Android mobile through Radio-Frequency and from Handheld Unit/Android mobile to remote server through GSM/GPRS shall be implemented for geographical locations having independent houses and low-rise / high-rise apartments		
		6 of 21	5.5 Fixed/Wireless type Smart Metering System sending data from Meter Interface Unit to a fixed battery powered Data Concentrator Unit (DCU) through Radio-Frequency and from DCU to remote server through GSM/GPRS shall be implemented for geographical locations having hi-rise apartment complexes.		
		6 of 21	5.3 The meter MIUs shall be common for walk by or fixed type smart metering system. The RF-based MIU shall have the same configuration, allowing walk-by readouts and fixed system readouts by installing DCU.		
		6 of 21	5.4 Bidder shall integrated the supplied smart meters with existing smart metering software HES software servers located at the BGL control room with data exchange on GPRS/GSM and also establishing data exchange with client's billing software.	We hereby request for acceptance of LoRa based communication AMR system also. We would like to highlight that LoRa is a much better technology with respect to GPRS/GSM. LoRa gives better connectivity and data accuracy. LoRa is well acceptable & proven technology locally as well as internationally for AMR based projects. We	

				request Kindly include the LoRa along with GPRS/GSM.	
		6 of 21	5.5 SQL database server is used in existing AIUT Server and Hanbit Server.	Kindly also allow the other make SQL database server, we hereby ensure to meet the requirement of the tender.	Separate server not envisaged. Meters shall be integrated to existing server. Shall be as per tender. Tender conditions prevail.
36)	4.0 CODES AND STANDARDS  4.2 MIU/AMR system (Document shall be submitted along with the bid)	6 of 21		The Meter related certifications will be provided alongwith the bid however the Atex approval which is specific hence should be allowed to be submitted before the commencement of first lot.	Documents as indicated in Cl. 4.1 & 4.2 of TS shall be submitted along with the bid. Shall be as per tender. Tender conditions prevail.
37)	MATERIAL REQUISITION (MR) & DATASHEETS  SMART METERING SYSTEM FOR DOMESTIC CONSUMERS – WALKBY TYPE/ FIXED TYPE	20 of 21	General : Mounting Wall / Pole mounted. Mounting accessories to be provided	Kindly arrange to provide the Drawing of mounting accessories, for better understanding.	Refer Cl.6.2 A 9 of TS
			Operating Temperature 0°C to 45°C Design 60 °C	We will provide operating temperature as per OIML i.e, -10 to 55 temp range, kindly accept.	Shall be as per tender. Tender conditions prevail.
			Communication between MIU and HHU/DCU RF Wireless communication Through GSM/GPRS	We hereby request for acceptance of LoRa based communication AMR system also. We would like to highlight that LoRa is a much better technology with respect to GPRS/GSM. LoRa gives better connectivity and data accuracy. LoRa is well acceptable & proven technology locally as well as internationally for AMR based projects. We request Kindly include the LoRa along with GPRS/GSM.	Shall be as per tender. Tender conditions prevail
			Other internals	Few internal components shall be of metallic but shall not affect by the Magnetic tamper, kindly accept.	Shall be as per tender. Tender conditions prevail

			All meter internals shall be non-metallic to prevent from tampering with magnet		
38)	Under open domestic competitive bidding	1	Under open domestic competitive bidding	This is such a important tender and not open to international company, request you to consider international manufacturers also who has proved skills and experience in design and manufacturing smart gas meters and have and authorized reseller for the territory of India. Kindly Confirm	Tender conditions prevail.
39)	Section 1.1: Bid Evaluation Criteria  A. Technical Criteria CI.No 1.3	16	The Bidder must have supplied the quantity as indicated below... 11,250	We are the official and authorized reseller in India of an international company (Manufacturer), and the international company shall provide its full warranty on the delivered meters. We request you to give a fair chance to us as we are providing Full warranty of the meters. Kindly Confirm	Shall be as per tender. Tender conditions prevail
40)	PART — III  2.0 SCOPE OF WORK  CI No 2	4 of 21	1.Design, engineering, manufacturing, assembly, factory testing, inspection (as defined in the specification), marking & packaging, supply of smart metering system comprising of domestic natural gas meters, Meter Interface unit (MIU) with integral digital display, hand held units, software, forwarding, insurance, handling, transportation, loading / unloading at sites / designated store, integration & data exchange of supplied smart meters with existing HHU/DCU (walkby/ fixed) & existing smarter metering system / server i.e. Head End Software (HES) and client's Billing software with suitable software configuration / modification, commissioning for smooth	Request to consider the point to point communication as manual walkby system is not effectively working and still a manual system uncomparable with automatic ( fixed system ).also DCU is not working up to expectation in indian conditions as lots of maintainance and Monitoring is required.  The GPRS - point to point communication is getting affordable and reliable solution. Also it ensure more than 99% data availability without any manual intervention. ( As SIM Providers are having their own team and they provides 24 x 7 uninteruted services)  We request you to give fair chance to Point to Point Communication System as it is not	Shall be as per tender. Tender conditions prevail.

			operation from smart metering / AMR system and providing all related services, documentation, commissioning spares, training.	comparable with manual walkby/ fixed DCU type system. Kindly Confirm	
41)	PART — III 2.0 SCOPE OF WORK CI No 2	4 of 21	2. Wherever existing DCUs and walk-by handheld devices are used, the new domestic meters shall be able to communicate with the existing DCU and handheld device for further transmission of data to smart metering server.	As we are offering Meters which is having Inbuilt AMR System which Supports GPRS Communication method which do not require and DCU / Intermediate Device. Meter/AMR can directly transmit data to Server/HES and our server/HES is capable to provide data to BGL's MDM Server / SAP System, there is no need of AIUT/Hanbit System as a mediator between bidder and BGL. Kindly Confirm	Shall be as per tender. Tender conditions prevail.
42)	PART — III 4.1 Natural Gas Meter-Diaphragm Meters (Document shall be submitted along with the bid):	6 of 21	a. Diaphragm Meters shall comply with EN 1359: 2006 (or latest),...	We request you to do not stick with traditional technology to diaphragm meters only when many other, more robust and precise, measurement technologies are available in the market especially referring to PNGRB which have included, among other technologies, the OIML R137:1&2 – Thermal Mass Flow Gas Meters conforming to ISO.14511 Kindly Confirm	Shall be as per tender. Tender conditions prevail.
43)	PART — III 5.0 DESIGN BASIS	6 of 21	5.4 Bidder shall integrated the supplied smart meters with existing smart metering software HES software servers located at the BGL control room with data exchange on GPRS/GSM and also establishing data exchange with client's billing software. 5.5 SQL database server is used in existing AIUT Server and Hanbit Server. 5.6 The existing domestic smart metering / AMR system are from M/s. AIUT and from M/s. Hanbit. The commercial smart metering / AMR system are form M/s.	As we are offering Meters which is having Inbuilt AMR System which Supports GPRS Communication method which do not require and DCU / Intermediate Device. Meter/AMR can directly transmit data to Server/HES and our server/HES is capable to provide data to BGL's MDM Server / SAP / BYNRY Billing System, there is no need of AIUT/Hanbit System as a mediator between bidder and BGL.	Shall be as per tender. Tender conditions prevail.

			<p>AIUT. The details of the same are given in clause 6.1. Further details as necessary, will be provided to the successful bidder.</p> <p>5.7 AMR device in the supplied meters, shall communicate &amp; exchange data with existing smartmetering system server. The new domestic smart meters / AMR shall be made suitable for either of the existing smart metering system server software i.e. AIUT system or Hanbit system. The new commercial smart meters / AMR shall be made suitable to existing smart metering system server software of AIUT system.</p>	<p>Still we like to inform that We are offering meters equipped with DLMS / COSEM protocol which is open source. We will provide DLMS/COSEM Source Codes which is open to all. and you can avail your existing Server for Receiving Data from our meters.</p> <p>Kindly Confirm</p>	
44)	MATERIAL REQUISITION (MR) & DATASHEETS	20 of 21	<p>SMART METERING SYSTEM FOR DOMESTIC CONSUMERS – WALKBY TYPE/ FIXED TYPE</p> <p>Datasheet/ Meter Type Diaphragm meter suitable for domestic metering &amp; AMR system</p>	<p>We request BGL to do not stick diaphragm meters only, Bidding should be open to all type of Meters.</p> <p>We offers Complete Smart Meters with Thermal Mass Flow Technology , which directly provides volumes in SCM and having inbuilt GPRS Based AMR System.</p> <p>Meter is complete electronic meter with IP 66 and no rotating part, its also having inbuilt shutoff valve that can be operated by remote server , so BGL can use this facility in future so its Future Ready Meters.</p> <p>Meters also having Daily / hourly Data storage memory to monitor and analysis usage pattern of customers.</p> <p>In addition, Meters are having Type Approval Certificate From Indian W &amp; M Dept, MID Cettification from NMI, OIML R137 Certification from NMI, we request BGL to consider any type of meter with GPRS based AMR Module.</p>	Shall be as per tender. Tender conditions prevail.

				Kindly confirm	
45)	MATERIAL REQUISITION (MR) & DATASHEETS	20 of 21	Data Sheet of Domestic Gas Meters Mounting	As our supplied meters body is made with Gavenised Steel and Meter is having weight of <2kg we confirm that it can hold the Meter on Gas PipeLine with Ease , so no need of extra mounting. PI. confirm	Shall be as per tender. Tender conditions prevail.
			DataSheet of Domestic Gas Meters Meter Index M3	our meter Index shows reading in M3 at Base condition. Kindly accept.	Shall be as per tender. Tender conditions prevail.
			DataSheet of Domestic Gas Meters Pulse Output	The Smart meter offered by us is having all the facility including AMR , GPRS , and volume measurement on one electronic board. There is no separate pulse generator envisaged.  PI. accept	Shall be as per tender. Tender conditions prevail.
			DataSheet of Commercial Gas Meters Leak Testing	We are offering Complete Electronic Meter , for leak test we do pneumatic Test only. PI. accept.	Shall be as per tender. Tender conditions prevail.
46)	Section 1.1: Bid Evaluation Criteria A. Technical Criteria	16	The Bidder must have supplied the quantity as indicated below for each type of Natural Gas Meters under a single order in the last seven years reckoned from due date of bid opening.	We would like to inform that Tender is supply of 65K domestic AMR meters. We are an OEM & having our authorized channel partner, Since we don't have our own set setup in south India & covering south India business via our authorized channel partner. Therefore requesting BGL to allow our authorized channel partner on behalf of OEM credentials to participate in the subjected tender & incorporate below clause:- (below is IGL's recent tender - IGL/ND/C&P/EP15623 dated 19.08.2019, BEC clause ) to enhance competition. "If the manufacturer does not sell his products directly but through his dealer/ distributor/	Shall be as per Tender. Tender conditions prevail.

				<p>subsidiary, he can authorize a single agency to submit the bid. Bidder shall obtain certificate/ undertaking from the respective OEM to ensure back to back service support for entire contract period of ten years. Principal vendor should however give confirmation to provide all necessary unconditional support to the authorized agency. In such a case the manufacturer shall have the prime responsibility of providing unconditional technical and after sales support to the purchaser. A latest confirmation by the manufacturer to this effect shall be submitted along with the bid"</p> <p>Please confirm.</p>	
47)	<p>PART — III</p> <p>2.0 SCOPE OF WORK</p> <p>CI No 1</p>	4 of 21	<p>Design, engineering, manufacturing, assembly, factory testing, inspection (as defined in the specification), marking &amp; packaging, supply of smart metering system comprising of domestic natural gas meters, Meter Interface unit (MIU) with integraldigital display,</p>	<p>Bidder is referring to recent past AMR tenders floated by MECON and would like to inform that considering MIU with Integral digital display allow only a specific solution provider to provide their solutions to meters manufacturer. This has potential to resulted in a monopoly situation for a specific solution providers, less competition &amp; chances of high price quote to subject cited tender of BGL/MECON.</p> <p>In addition to the above, justifications for no digital display are as below: -</p> <ol style="list-style-type: none"> <li>1. We have experienced reading difference between Meter display &amp; MIU digital display in several utilities, wherein MIU with digital display deployed. It created more customer complaints and discrepancy in reading.</li> <li>2. Meter display on Index (refer below pic)/MIU shall ultimately</li> </ol>	<p>Shall be as per Tender. Tender conditions prevail.</p>

				<p>completely cover the customers/Utility requirements and there is no use of additional digital display on MIU.</p> <p>3. In AMR, with the kind of data fetched from the meter customer can always go to the web portal and check their consumption versus billing. So, giving a digital display just for comparison is an overburden on costs as well as will invite legal issues if the battery drains in the field and reading matching becomes an issue.</p> <p>4. Digital Display is going to drain the life of battery reducing it by more than half i.e. replacement every 2 to 3 years. In Domestic mass consumer market it is not commercially viable.</p> <p>Therefore, bidder requesting BGL/MECON to accept the use of MIU without digital display also and provide a fair competition &amp; equal platform to all the capable bidders.</p>	
			<p>Integration &amp; data exchange of supplied smart meters with existing HHU/DCU (walk by/ fixed) &amp; existing smarter metering system / server i.e. Head End Software (HES) and client's Billing software with suitable software configuration / modification, commissioning for smooth operation from smart metering / AMR system and providing all related services, documentation, commissioning spares, training.</p>	<p>There are 3 possibilities: -</p> <p>a) Define separate areas for different solution providers, each having its own separate data collection solution.</p> <p>b) Integration with existing HHU:- Bidder would like to inform that it can potentially support hybrid infrastructure on its proposed system. This will require technical due diligence during design phase and support from utility to get the existing vendor to share necessary API/drivers. The head end system in this case will be the proposed Itron headend system. For the DCU data is already going to the existing HES and integration with the billing engine should</p>	<p>Separate head end server is not envisaged.</p> <p>Smart Meters shall be compatible, communicate &amp; exchange data with existing HHU, DCU, smart metering server software.</p> <p>Shall be as per Tender.</p> <p>Tender conditions prevail.</p>



				<p>already be in place for them, hence no change is envisaged here.</p> <p>c) Also, the more standard way of achieving interoperability when you want to have different options of data acquisition is to have consolidation at a single MDM layer above HES</p>	
48)	<p>6.2 NEW METERS SPECIFICATIONS</p> <p>A. NATURAL GAS METER</p>	12 of 21	<p>5. Meter shall have pulse generating mechanism compatible to MIU. The Pulse generating mechanism / Meter reading shall be unaffected / provide alert for tamper by an external magnet. Bidder shall furnish the confirmation. The same may be verified at any stage before/during/after installation for meter with AMR, meeting the tamper detection requirement.</p>	<p>Bidder requesting BGL/MECON to include a compulsory magnet testing during technical evaluation (for minimum broadcast range, magnetic tamper test, data availability, data mismatching etc..) &amp; Prior to Price bid opening.</p> <p>Above mentioned testing shall be an equal platform for all the eligible bidders to prove their tamper proof technology on Magnet, prior to price bid opening. So that BGL may ensure the future success of this AMR project &amp; avoid unforeseen circumstances.</p> <p>Request to please accept the technical testing and provide the detailed parameters of required testing.</p>	Shall be as per Tender. Tender conditions prevail.
49)	<p>B) AUTOMATIC METER READING (AMR) SYSTEM</p> <p>Clause no 6</p>	12 of 21	<p>6. Meter Interface Units (MIU) shall be Inductive / Magnetic Pulse type and AMR shall be generally retrofit. MIU shall capture the pulses from the Meter Index using Inductive / Magnetic Pulse Technology, generate tamper alerts in the event of tamper by external magnet, avoid missing pulse and deviation/ mismatch in index &amp; billing data.</p>	<p>Bidder being an OEM would like to inform to BGL that "meter internals (Meter Index &amp; measuring Unit) must be tamper proof from external magnet" as magnetic influence will slow meter performance without damaging the Meter.</p> <p>Kindly please note that with efficient AMR system there may be a possibility of getting magnetic alert, however there is no way to determine amount of gas loss due to slow of meter with influence of Magnet. Considering this experience in past, electricity utilities had</p>	MIU shall capture pulses from Meter Index using Inductive / Magnetic Pulse Technology. Shall be as per Tender. Tender conditions prevail.

				<p>upgraded their specifications and stopped taking magnetic influence technologies meters. Therefore we request BGL to incorporate the above mentioned text and also schedule a test procedure to check magnetic tampering as requested in previous point.</p> <p>Magnetic Tampering prone meters will cause gas loss in reconciliation, unmetered gas passing, in accurate billing to customers will result revenue loss to BGL.</p> <p>We strongly recommend BGL to set a trend for all the Gas utilities by not allowing tamper prone Magnetic pulse generation device, to ensure quality of meters as the qty is large and this will lead to high irrecoverable losses. Moreover, in case of magnetic tampering generates alarm post facto its difficult to conclusively establish such external tampering physically, opening a possibility for customer litigation.</p> <p>Kindly confirm</p>	
50)	<p>B) AUTOMATIC METER READING (AMR) SYSTEM</p> <p>Clause no 1</p>	12 of 21	1.The communication system between Smart metering system & existing remote servers shall be on Open protocol in order to ensure communication compatibility between Smart metering unit & existing server for any addition / replacement of Smart metering system units/components.	<p>Bidder understands that BGL accept data hosting at the bidder data center/cloud? Please confirm.</p>	<p>Separate head end server is not envisaged. Smart Meters shall be compatible, communicate &amp; exchange data with existing HHU, DCU, smart metering server software. Shall be as per Tender. Tender conditions prevail.</p>
51)	<p>B) AUTOMATIC METER</p>	12 of 21	4. The power shall be supplied to the Meter Interface Unit (MIU) by a lithium battery replaceable.	<p>Bidder understand that MIU with replaceable &amp; without replaceable both are accepted. Kindly confirm.</p>	<p>Shall be as per Tender. Tender conditions prevail.</p>

	READING (AMR) SYSTEM  Clause no 4		MIU Battery Life: Min. 7 years	Bidder understand that the life of MIU/MIU's Battery is 7 Years. Bidder requesting BGL/MECON to please confirm.	Battery Life of MIU shall be Min. 7 years. Shall be as per Tender. Tender conditions prevail.
			All Meter Interface Units (MIU) shall capture the pulses from the Meter Index using Inductive Pulse Technology / Magnetic Pulse Technology	Bidder would like to inform that magnetic reed switch technologies meters are highly prone for tampering from external magnet/magnetic field / vibrations in AMR system. Accepting Magnetic Pulse technology may result in errors causing serious billing, gas reconciliation issues to BGL/MECON in future. Therefore, bidder requesting BGL/MECON to consider Meter with any other technology from Magnetic Pulse to avoid Magnetic Tampering.	MIU shall capture pulses from Meter Index using Inductive / Magnetic Pulse Technology. Shall be as per Tender. Tender conditions prevail.
52)	6.2 NEW METERS SPECIFICATIONS A. NATURAL GAS METER	12 of 21	7. The meters shall have corrosion resistant powder coated (inside and outside) steel casing. Enclosure protection of all meters shall confirm to IP-65 or better.	Bidder is referring to recent past AMR tenders floated by Major utilities & MECON Delhi and confirms that Ingress Protection of Domestic Meter (G1.6) accepting as IP 54 or better. Moreover, as per EN 1359:1999+A1:2006, Ingress Protection of Domestic Meter (G1.6) should be IP 54 or better. Therefore, bidder requested BGL/MECON to please consider Ingress Protection as IP 54 or better also.	Shall be as per Tender. Tender conditions prevail.
53)	DUE DATE & TIME OF BIDSUBMISSION		Due Date : 31 July 2020	Bidder requesting BGL to please provide 4 weeks' time after reply of Pre bid queries to prepare a competitive bid.	Refer Corrigendum #1
54)	PART — III  2.0 SCOPE OF WORK	4 of 21	Design, engineering, manufacturing, assembly, factory testing, inspection (as defined in the specification), marking & packaging, supply of smart metering system comprising of domestic natural	Bidder is referring to recent past AMR tenders floated by MECON and would like to inform that considering MIU with Integral digital display allow only a specific solution provider to provide their solutions to meters manufacturer. This has potential to resulted	Shall be as per Tender. Tender conditions prevail.

			<p>gas meters, Meter Interface unit (MIU) with integral digital display,</p>	<p>in a monopoly situation for a specific solution providers, less competition &amp; chances of high price quote to subject cited tender of BGL/MECON.</p> <p>In addition to the above, justifications for no digital display are as below: -</p> <ol style="list-style-type: none"> <li>1. We have experienced reading difference between Meter display &amp; MIU digital display in several utilities, wherein MIU with digital display deployed. It created more customer complaints and discrepancy in reading.</li> <li>2. Meter display on Index (refer below pic)/MIU shall ultimately completely cover the customers/Utility requirements and there is no use of additional digital display on MIU.</li> <li>3. In AMR, with the kind of data fetched from the meter customer can always go to the web portal and check their consumption versus billing. So, giving a digital display just for comparison is an overburden on costs as well as will invite legal issues if the battery drains in the field and reading matching becomes an issue.</li> <li>4. Digital Display is going to drain the life of battery reducing it by more than half i.e. replacement every 2 to 3 years. In Domestic mass consumer market it is not commercially viable</li> </ol> <p>Therefore, bidder requesting BGL/MECON to accept the use of MIU without digital display also and provide a fair competition &amp; equal platform to all the capable bidders.</p>	
55)	PART — III 2.0 SCOPE OF WORK	4 of 21	Integration & data exchange of supplied smart meters with existing HHU/DCU (walk by/ fixed) & existing smarter metering system / server i.e. Head End	<p><b>a) Integration with existing HHU:-</b> Bidder would like to inform that it has in past supported such hybrid infrastructure and can support this integration as long as utility can</p>	Smart Meters shall be compatible, communicate & exchange data with existing HHU, DCU, smart metering server software.

			Software (HES) and client's Billing software with suitable software configuration / modification, commissioning for smooth operation from smart metering / AMR system and providing all related services, documentation, commissioning spares, training.	get the existing vendor to share necessary API/drivers. Moreover we recommend to integrate bidders head end system to your billing system as per global market practice rather than promoting to integration on product/head end level. b) <b>Integration with existing existing DCUs:-</b> Bidder would like to clarify that Since BGL/MECON already automatically getting data periodically without any manual intervention from existing DCUs into your's existing headend system, so no such integration shall be envisaged. The DCUs data can be passed along with walk by data (from both new & old system) from the existing head end system to the MDM. May request BGL/MECON to please confirm on the same.	Shall be as per Tender. Tender conditions prevail.
			Clause no. 1,2,3,4,5,6,7,... (Integration with existing system)	we recommend integrating bidders head end system to your billing system as per global market practice rather than promoting to integration on product/head end level. Kindly accept the same.	Shall be as per Tender. Tender conditions prevail.
56)	PART — III 2.0 SCOPE OF WORK	4 of 21	1. Design, engineering, manufacturing, assembly, factory testing, inspection (as defined in the specification), marking & packaging, supply of smart metering system comprising of domestic natural gas meters, Meter Interface unit (MIU) with integral digital display, hand held units, software, forwarding, insurance, handling, transportation, loading / unloading at sites /designated store, integration & data exchange of supplied smart meters with existing HHU/DCU (walk by/ fixed) & existing smarter metering system / server i.e. Head End	As per the detailed scope of work; the new smart meter as asked in the tender should also be compatible to communicate with existing HHUs/DCU already deployed at field. This condition will restrict new bidder to participate as each gas meter service provider shall have its own technology and deployment architecture of gas metering service delivery. Hence we request to please consider this huge requirement of 75000 smart gas meter as a separate deployment. The ultimate objective of BGL to get the meter reading and integration of the bidder's HES with BGL's billing system must be complied.	Smart Meters shall be compatible, communicate & exchange data with existing HHU, DCU, smart metering server software.  Shall be as per tender. Tender conditions prevail.

			Software (HES) and client's Billing software with suitable software configuration / modification, commissioning for smooth operation from smart metering / AMR system and providing all related services, documentation, commissioning spares, training.	We do request to please amend the clause accordingly.	
		4 of 21	5. Configuration / mapping / synchronization of meter MIU/AMR, HHU / handset (walk-by), DCU (fixed) for communication / data exchange and Configuration of meter AMR / HHU / handset, DCU for communication / data exchange with metering software server on GPRS/GSM and further communication / data exchange to client's billing software server including manpower, tools & tackles	The requirement of meter reading may also be fulfilled by prepaid gas meters as well. The overall cost of AMR system along with postpaid gas meter will increase the total cost to serve for domestic customers of BGL; while on the contrary; prepaid gas meter may also cost similar to the said smart post paid gas meter but it will have the added advantage of increase in revenue collection efficiency and no debt due to advance payment from domestic customer due to prepaid gas meter. AS BGL has already deployed the smart postpaid gas meter within previous year and now we do request to please consider the prepaid gas meter for this new requirement of 75000 gas meter. We do assure you that prepaid gas meter shall add a huge value delivery to overall business process of BGL. We do request to please amend the technical requirements accordingly.	Shall be as per tender. Tender conditions prevail.
57)	General		Requirement of Smart post paid gas meter	BGL has recently come up with a tender of "Engaging an agency for Meter reading, Bill printing & distribution and Debtor's Management ". The scope of this tender was also to provide a commission to the agency so as to	Shall be as per tender. Tender conditions prevail.

				<p>collect the long dues payment from domestic customers.</p> <p>We do hope that BGL shall again release a similar tender after deployment of 75000 smart post paid gas meters as asked in this tender and will incur the huge cost for meter reading, bill printing &amp; distribution and debt management.</p> <p>In view of above; we do request to please consider the prepaid gas meter along with consumer mobile application for this tender quantity. Prepaid gas meter will ultimately save the substantial cost being incurred on account of debt management as it shall result into zero debt. It shall also be convenience to consumer as he shall be able to manage his expenses and monitor the consumption at his own.</p>	
58)	5.0 DESIGN BASIS	6 of 21	5.2 Fixed/Wireless type Smart Metering System sending data from Meter Interface Unit to a fixed battery powered Data Concentrator Unit (DCU) through Radio-Frequency and from DCU to remote server through GSM/GPRS shall be implemented for geographical locations having hi-rise apartment complexes.	<p>We do request to please also allow the technology or system deployment such a way that communication of gas meter with a mobile application happens over BLE and thereafter further communication with Head End System (HES) over mobile GPRS network. This will also meet the overall objective of BGL of getting the meter reading data from gas meters. This will also increase the participation for this bid. We do request to please amend the clause accordingly.</p>	Shall be as per tender. Tender conditions prevail.
59)	6.2 NEW METERS SPECIFICATIONS  B. Automatic Meter reading	13 of 21	5. The MIU shall be capable of storing minimum 60 days daily data log having daily flow or meter reading.	<p>We do understand that the meter reading cycle is bi-monthly. Hence; per day data storage of gas meter for domestic customer may not be desired as the daily consumption for domestic customer is very less i.e. 0.5 SCM only.</p>	Shall be as per tender. Tender conditions prevail.

	(AMR)			<p>We request you to please modify the clause as requirement of 1 cumulative reading per month.</p> <p>In case of prepaid gas meter; the entire cost of meter reading, bill printing and distribution may be avoided and this will result into huge cost saving to BGL.</p> <p>We do request to please amend the clause accordingly.</p>	
60)	6.2 New meter specification A. NATURAL GAS METER	12 of 21	3. Meter Index shall be compatible for implementing automatic meter system and the meter index shall be factory fitted	<p>We request to please consider the electronic display also of the gas meter.</p> <p>We request to please amend the requirements at respective clauses of the tender.</p>	Shall be as per tender. Tender conditions prevail.
	Request for time extension			In view of the clarifications requested by us, we would request you to kindly extend the bid due date for further period of 3-4 weeks from the date of corrigendum issued	Refer Corrigendum #1 for bid submission due date
61)	Section 1.1: Bid Evaluation Criteria  A. Technical Criteria	17	<p><b>BID EVALUATION CRITERIA</b></p> <p>1.3 The Bidder must have supplied Domestic Natural Gas Meters of flow capacity G1.6 (2.5 SCMH) or above, design pressure up to 200 mbar for minimum quantity requirement for BEC Qualification (Nos.) of 11,250 under a single order in the last seven years reckoned from due date of bid opening.</p>	<p>We request M/s. BGL that if bidder has quoted as an Indian authorized supplier, then corresponding foreign manufacturer's supply experience across the globe shall be considered for technical BEC criteria for qualification while the financial criteria will be met by the authorized supplier.</p> <p>Please note this is a standard criteria that all the major CGD companies in India are accepting &amp; following. Hence we humbly request you to accept this and encourage the level of competition</p>	Bidder shall have the experience as indicated in qualification criteria. Shall be as per Tender. Tender conditions prevail.
62)	PART — III  6.0 TECHNICAL SPECIFICATION	8 of 21	<p>6.0 TECHNICAL SPECIFICATION</p> <p>6.1 EXISTING SYSTEM</p>	1. Currently, the existing meters on site are provided by AIUT and HANBIT. As per our understanding not only the smart meter itself, but DCU, HHU and HES are two separated/independent systems. If a new	Refer TS Cl.5.0 Design Basis. The existing smart metering device & servers are of AIUT and HANBIT. Separate system is not envisaged. Supplied Smart Meters shall be compatible, communicate & exchange data with existing HHU, DCU, smart



	6.1 EXISTING SYSTEM			bidder trying to integrate with existing system then whose communication protocol shall be followed. Both? or Just one of them? Please confirm 2. Kindly confirm if the new bidder provides the whole system including smart meter, HHU, DCU, and HES is acceptable. Please confirm that it is mandatory for new smart meters and other related accessories to be compatible with the existing system.	metering server software. Shall be as per tender. Tender conditions prevail.
63)	PART — III  6.0 TECHNICAL SPECIFICATION 4.2 MIU/AMR system	6 of 21	6.0 TECHNICAL SPECIFICATION 4.2 MIU/AMR system	Request M/s. BGL to accept ATEX or IECex certificate only instead of PESO approval	ATEX certificate is considered, further refer Cl. 4.2 of TS. Shall be as per tender. Tender conditions prevail.
64)	PART — III  6.0 TECHNICAL SPECIFICATION 5.8 DESIGN BASIS	7 of 21	6.0 TECHNICAL SPECIFICATION 5.8 DESIGN BASIS	Kindly, confirm the supplying scope for meter, HHU, DCU, HES.	Refer TS Cl.2.0 Scope of Work.
65)	PART — III  6.0 TECHNICAL SPECIFICATION	8 of 21	6.1 EXISTING SYSTEM a) Billing software system provides business functions for utility: billing, prepaid, cut off.	1. The tender has specified that the existing smart gas metering system is implemented with AIUT & HANBIT products. Does this project need the same system or equivalent system from other manufacturers with similar specifications?  In the Tender document under Section 6 (Technical Specifications) 6.1 point (a) "Billing software system provides business functions for utility: billing, prepaid, cut off." So does the gas meter need an internal valve	Smart Meters shall be compatible, communicate & exchange data with existing HHU, DCU, smart metering server software. Shall be as per Tender. Tender conditions prevail.  For domestic consumers, internal valve not envisaged. Shall be as per Tender. Tender conditions prevail.

				also for meeting the prepaid and cut-off features?	
66)	PART — III 2.0 SCOPE OF WORK Cl. No 7			Does BGL provide the cloud server services with Mysql database and other features to integrate HES to BYNRY billing system? (Section 2.0 point no 7)	HES server is existing. Shall be as per Tender. Tender conditions prevail.
67)	Section 1.1: Bid Evaluation Criteria A. Technical Criteria. Point No.1.2.1	15	In case of manufacturer, proposed manufacturing facility/ workshop, shall be certified by a reputed Inspection / testing agency such as CEIL/ Lloyds/ BV/ DNV/TUV/ ABS/Moody / SGS / GLI/ Velosi / FCRI / DVGW or equivalent, for fabrication, assembly and testing of the quoted Natural Gas Meters and same facility should be for minimum 135,000 quantity of meters per annum.	We understand from TUV, that they do audit for ISO certification for the Quality, Environmental, Occupational Health and Safety Management System for manufacturing facility but TUV does not provide exclusive separate certificate for manufacturing capacity. We request to please let us know the procedure to get the similar certificate or any similar certificate for our reference so as to enable us to get the detailed procedure and arranging the same to meet the qualifying criterion.	Multiple agencies are listed. The manufacturing facility / workshop & capacity shall be certified by the Inspection / testing agency as indicated. Tender conditions prevail.
68)	SECTION – III C SPECIAL CONDITIONS OF CONTRACT – GOODS 5. FOR AUTOMATED METERING READER SYSTEM (AMR): Cl.No 5.1	3 of 7	5.1 In case the Bidder is the AMR Manufacturer then the bidder must have supplied minimum 500 nos. of Automated Metering Reader System (AMR) under a single order in the last seven years reckoned from due date of bid opening. Necessary documentation as stated below is to be submitted in support of the same.	We do understand that the said experience of 500 nos. of AMR system is related to the AMR modules supplied to an established company in the field of water / electricity / gas Please confirm our understanding and modify the clause accordingly.	Bidder shall meet the criteria mentioned in Bid Evaluation Criteria (BEC). Additionally, the bidder shall also meet the criteria mentioned in SCC Cl.5.1 / Cl.5.2. AMR manufacturer participating shall meet BEC & SCC criteria. Tender conditions prevail.

69)	SECTION – III D PAYMENT TERMS AND MODE OF PAYMENT  Cl.Noc1.1.1 B)	7 of 7	Terms of Payment – 10% (Ten percent) payment of the supplied portion after verification and ensuring communication with existing system / server.	We understand the verification and ensuring communication with existing system / server is not linked to the installation of the Smart Meter. The payment should be released even if the meters supplied to BGL in the uninstalled conditions are communicating with the existing system / server. Kindly Clarify  Justification : Installation is not in the scope of the bidder and the bidder will not be having any control over it.	Tender conditions prevail.
70)	SECTION – III D PAYMENT TERMS AND MODE OF PAYMENT  1.1.1 C)	7 of 7	However, if the integration and commissioning of the system is delayed due to non-availability of site clearance by Owner, this balance payment of 10% will be released by BHAGYANAGAR Gas after 6 months from the date of material acceptance at site, against submission of bank guarantee for equivalent amount. The BG will be valid for 12 months initially and will be extended till completion of the integration and commissioning of the system, duly certified by Engineer-in- Charge (EIC). Such rescheduling, if any, will be intimated by EIC.	The clause states that the BG submitted for 10% of the amount withheld by BGL will be valid for 12 months initially and will be extended till the completion of integration. We request you to kindly cap this validity of BG for 12 months.  Justification : This is an open-ended condition and capping should be done here to make the clause neutral	Tender conditions prevail.
71)	PRICE SCHEDULE  A.1	1 of 1	Price Schedule – Domestic meter G1.6 (design pressure upto 200 mbar) for Left side inlet & Right- side outlet, fitted with MIU for walk-by cum fixed type Smart Metering System and shall be compatible, communicate & exchange data with existing HHU, DCU & smart metering software.	As per the Item A.1 of the price schedule, the smart meters are to be supplied which should be compatible to the existing HHUs and DCUs and no new HHU (Hand Held Units) or DCU (Data Concentrator Units) are to be supplied. Justification : There are no exclusive Items in Price schedule for HHUs and DCUs. The same is mentioned in Material Requisition Sheet as well.	New HHU or DCU not envisaged. Shall be as per tender. Tender conditions prevail.

72)	6.0 TECHNICAL SPECIFICATION 6.1 EXISTING SYSTEM	8 of 21	The AIUT make smart metering system have the capacity to assign 5,00,000 domestic consumers & 5,000 commercial consumers. The Hanbit make smart metering system have the capacity to assign 1,00,000 domestic consumers.	Please let us know the currently available capacity in both the metering system. Further, any upgradation in these metering systems will not be in the scope of the bidder. Justification: More clarity is sought in this regard for better understanding of the current system.	Server scalable capacity indicated. Further refer TS Clause 2.0 Point No.11. Shall be as per tender. Tender conditions prevail.
73)	5.0 DESIGN BASIS  Cl.no 5.13	7 of 21	Bidder shall establish seamless data transfer between the HES server and client's BYNRY Billing software server with required / necessary interface development and interacting with billing software vendor for successful integration	Does the Head End Systems of Hanbit and AIUT have industry standard data exchange services published for integration with billing system? If any additional software is required for the same, will be in scope of BGL.  Justification: This information is very important as these integrations will be bidder's responsibility in future and at the same time, it is not in the control of the bidder	Refer TS Cl.2.0 - Point 6 & 7 and also Refer TS Cl. 5.0. Shall be as per tender. Tender conditions prevail.
74)	Section 1.1: Bid Evaluation Criteria A. Technical Criteria  Cl.No A 1.1.	15	BEC 1.1 - The Bidder must be Manufacturer or Indian subsidiary / authorized supplier of foreign Manufacturer (having manufacturing unit outside India) of Natural Gas Meters.	We understand that the Indian Subsidiary of the Foreign Manufacturer can also authorize a System Integrator / Bidder to bid for this project on their behalf.  Justification: This would allow more bidders and flexibility to BGL.	Refer BEC Cl.1.1- Bidder must be Manufacturer or Indian subsidiary / authorized supplier of foreign Manufacturer (having manufacturing unit outside India) of Natural Gas Meters. Shall be as per tender. Tender conditions prevail.
75)	IFB Due date	1	Date : 31.07.2020 Time : Upto 15.00 hrs. (IST)	Due to the prevailing Covid19 situation and shutdowns across India and specifically at Bangalore, we request you to kindly accept these Prebid queries also and extend the bid submission date by at least 15 days from the current submission date, enabling us also to participate in the tender.	Refer Corrigendum #1

76)			Request for Time Extension	We have asked for some queries related to technical, awaiting for your reply on the same, Also for sending the tender document, some documentation is pending as most of our staff is working from home and in isolation due to COVID suspect in office, We request you to give us an extension for submitting the documents	Refer Corrigendum #1 for bid submission due date
77)			Request for Time Extension	We also request you to kindly postpone the bid submission date by 10/15 days as submission by 31/07/2020 looks very crucial for us due to current pandemic situation.	Refer Corrigendum #1 for bid submission due date
78)	SECTION – III C SPECIAL CONDITIONS OF CONTRACT – GOODS (SCC - GOODS) 4. COMPLETION SCHEDULE 4.1 Delivery Period	2 of 7	Delivery Period: The delivery will be LOT wise wherein 40% of item No. A.1 of the Price Schedule ordered quantities will be delivered within three months from date of FOA, 30% quantity shall be delivered within 5 months from date of FOA and balance 30% shall be delivered in 7 months from date of FOA, so that the total 100% of the ordered item quantity is supplied within even months from date of FOA	Due to ongoing unprecedented COVID-19 situation, Lead time has increased for some of the critical components of AMR module. Hence, we request you to kindly give delivery extension as per following. 1. 18 - 20 weeks for Lot 1 (40% qty) 2. 32 - 34 weeks for Lot 2 (30% qty) 3. 46 - 48 weeks for Lot 3 (30% qty)	Tender conditions prevail.
79)	13.0 TAXES AND DUTIES	46	Taxes and duties  Any increase in the rate of GST (CGST & SGST/UTGST or IGST) beyond the contractual delivery period shall be to Supplier's account whereas any decrease in the rate GST (CGST & SGST/UTGST or IGST) shall be passed on to the Purchaser	We request that applicable tax will be charged. As, for the delayed period PRS will already be applicable.	Tender conditions prevail.

80)	PAYMENT TERMS AND MODE OF PAYMENT		<p>Payment Terms</p> <p>80% - after receipt &amp; acceptance of goods at FOT site after adjustment of PRS, along document submission</p> <p>10% - verification and ensuring communication with existing server</p> <p>10% - successful integration and commissioning</p>	We request to kindly release 90% on supply and 10% on verification and commissioning. As, Verification and commissioning happens together.	Tender conditions prevail.
81)	Due date		Submission bid due date is 31-Jul-20	As this is Hard copy submission, considering ongoing COVID-19 PBG issuance time has increased. Also, courier transit time has increased considerably. We request you to kindly extend bid submission due date till 20-Aug-20.	Refer Corrigendum #1 for bid submission due date
82)	SECTION – III C SPECIAL CONDITIONS OF CONTRACT – GOODS 15.0 PRICE REDUCTION SCHEDULE (PRS)	4 of 7	<p>PRS</p> <p>0.5% of unsupplied portion max. upto 5% of PO value.</p>	We request PRS shall be applicable on unsupplied portion	Tender conditions prevail.
83)	PART — III 2.0 SCOPE OF WORK		<p>Clause 1: Scope of Work</p> <p>Design, engineering, manufacturing, assembly, factory testing, inspection (as defined in the specification), marking &amp; packaging, supply of smart metering system comprising of domestic natural gas meters, Meter Interface unit (MIU) with integral digital display, hand held units, software, forwarding, insurance, handling, transportation, loading / unloading at sites / designated store, integration &amp; data exchange of supplied smart meters with existing HHU/DCU</p>	we understand that the Bidder must integrate to anyone of the existing AMR system/server. Hence, it might happen that certain hardware/software might be needed to enhance/upgrade existing server. Bidder will hold warranty only for the additional components upgraded in existing server. Also, this will be done by Bidder without hampering the existing system. Please confirm.	Refer TS Cl.5.0 Design Basis. Shall be as per tender. Tender conditions prevail.

			(walkby/ fixed) & existing smarter metering system / server i.e. Head End Software (HES) and client's Billing software with suitable software configuration / modification, commissioning for smooth operation from smart metering / AMR system and providing all related services, documentation, commissioning spares, training.		
84)	PART — III 2.0 SCOPE OF WORK		Clause 11: Scope of Work Bidder shall also specify and include any hardware/software which are not specially mentioned but are required to complete the integration, commissioning, functioning of Smart metering system.	As we understand that the Bidder has to integrate to the existing server and hence, it might be needed to upgrade with additional 1-2TB HDD and/or 12-32GB RAM. Pls confirm whether this will be allowed.	Hardware/software which are required to complete the integration, commissioning, functioning of Smart metering system shall be in Bidder's scope. Tender conditions prevail.
85)	PART — III 2.0 SCOPE OF WORK		Clause 1: Scope of Work Design, engineering, manufacturing, assembly, factory testing, inspection (as defined in the specification), marking & packaging, supply of smart metering system comprising of domestic natural gas meters, Meter Interface unit (MIU) with integral digital display, hand held units, software, forwarding, insurance, handling, transportation, loading / unloading at sites / designated store, integration & data exchange of supplied smart meters with existing HHU/DCU (walkby/ fixed) & existing smarter metering system / server i.e. Head End Software (HES) and client's Billing software with suitable software configuration / modification, commissioning for smooth operation from smart metering / AMR system and providing all related services,	As technologies are continuously upgrading. we request BGL to allow both integral/ external display with the help of mobile application. This upgrade is introduced by most of the IOT device manufacturers. The unique advantage of the product is that any fitter/customer can view the meter details on their Phone using the Application. Hence, no need to for any fitter/consumer to climb at a height to view the meter-reading. We also confirm that no functionality will be compromised when compared to integral display	Shall be as per Tender. Tender conditions prevail.

			documentation, commissioning spares, training.		
86)	PART — III 2.0 SCOPE OF WORK		Clause 2: Scope of Work Wherever existing DCUs and walk-by handheld devices are used, the new domestic meters shall be able to communicate with the existing DCU and handheld device for further transmission of data to smart metering server.	We understand based on clause 2 and design basis that bidder has to integrate New AMR devices with respective Aiut or Hanbit server HHU & DCU. Please confirm. As, it is not possible to integrate new devices to work on both Aiut as well as Hanbit infrastructure.	Refer TS Cl.5.0 Design Basis. Shall be as per tender. Tender conditions prevail.
87)	PART — III 2.0 SCOPE OF WORK		Clause 6: Scope of Work Bidder shall integrate the existing HES metering server with the client's BYNRY Billing system, for automatic transmission of Meter reading data. Billing software will fetch Smart meter data from HES (Head End Software) via interface and perform meter reading consumption validation, editing and estimation. HES shall provide alerts, alarms and abnormalities data to billing software	We request to provide the information of BINARY billing system, as same required for internal evaluation before bidding of tender. We understand that any challenge while integrating with Billing system not pertaining to Bidder. Bidder shall not be liable for any payment hold/ non-completion of project.	Refer Cl.2.0 - Point 6 & 7 and also Refer Cl. 5.0. Shall be as per Tender. Tender conditions prevail.
88)	MATERIAL REQUISITION (MR) & DATASHEETS	20 of 21	Datasheet Installation: Suitable for outdoor/Indoor Installation, tamper proof and corrosion resistant for a life period of 20 years	We request to kindly amend life period to 10 years. As, standard industry practice this is acceptable accros CGDs. Also, MECON-Delhi TS for meters specify suitability for 10 years.	Shall be as per Tender. Tender conditions prevail.
89)	MATERIAL REQUISITION (MR) & DATASHEETS	21 of 21	Datasheet Max. broadcast radio range >500 meters	We request you to please consider range $\geq$ 500 meters. As, 'Range > 500 meters' is open condition and is not possible to be fulfilled on RF based SMART metering system.	Shall be as per Tender. Tender conditions prevail.
90)	6.0 TECHNICAL SPECIFICATION	9 of 21	Existing system Server capacity : Aiut - 5,00,000 Hanbit - 1,00,000	We request you to please verify, We understand server capacity are as below. Aiut - 1,00,000 expandable Hanbit - 5,00,000	Server scalable capacity indicated. Hardware/software which are required to complete the integration, commissioning, functioning of Smart metering system shall be in Bidder's scope. Tender conditions prevail.



91)	6.0 TECHNICAL SPECIFICATI ON	9 of 21	Existing system Hanbit Module HAT-865-FN	We request you to please add Hanbit Model: HAT-865-FN/HB03 in existing system details.	Shall be as per Tender. Tender conditions prevail.
92)	6.2 NEW METERS SPECIFICATI ONS B. AUTOMATIC METER READING (AMR) SYSTEM	12 of 21	AMR system The power shall be supplied to the Meter Interface Unit (MIU) by a lithium battery replaceable. Bidder / MIU manufacturer shall warrant that any battery provided and installed in the MIU shall be free from design and manufacture defects	We request you to please consider both replaceable/non-replaceable battery for AMR modules.	Shall be as per Tender. Tender conditions prevail

Note: This document shall form an integral part of the bidding document and shall be signed/stamped and submitted along with the bid.

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(STAMP & SIGNATURE OF BIDDER)