



Bhagyanagar Gas  
Limited

**Hiring an agency for carrying out Operation & Comprehensive Annual Maintenance Contract (CAMC) of Delta make 600 SCMH capacity CNG Compressor Packages for a period of 02 Years at Vijayawada & Kakinada.**

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**Bid Document No. BGL/578/2023-24**



**Bhagyanagar Gas Ltd.**

**BHAGYANAGAR GAS LIMITED**

(A JOINT VENTURE OF GAIL&HPCL)

**BID DOCUMENT FOR**

**Hiring an agency for carrying out Operation & Comprehensive Annual Maintenance Contract (CAMC) of Delta make 600 SCMH capacity CNG Compressor Packages for a period of 02 Years at Vijayawada & Kakinada**

**UNDER OPEN DOMESTIC  
COMPETITIVE BIDDING IN TWO BID SYSTEM**

**Bid Document No.: BGL/578/2023-24**

**VOLUME-II of II**



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## **SECTION 6**

### **SERVICE REQUISITION**



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**Operation and Comprehensive Annual Maintenance Contract (AMC) Services for 600 SCM Motor driven Delta compressor package at Vijayawada & Kakinada GA:**

CAMC proposed will be limited to the equipment's listed under Vijayawada & Kakinada, as per details given below for a period of **24 months**:

Sl. No.	Name of Equipment & Make	Model & Brief specification	Qty.	Location	Sub Location
1	Delta Aspro CNG Compressor	(Model:IODM 70-3-19, 600 SCM Capacity)	01	Vijayawada	Ajitsingh nagar
2	Delta Aspro CNG Compressor	(Model:IODM 70-3-19, 600 SCM Capacity)	01	Vijayawada	Gollapudi
3	Delta Aspro CNG Compressor	(Model:IODM 70-3-19, 600 SCM Capacity)	01	Vijayawada	Autonagar
4	Delta Aspro CNG Compressor	(Model:IODM 70-3-19, 600 SCM Capacity)	01	Vijayawada	Prasadampadu
5	Delta Aspro CNG Compressor	(Model:IODM 70-3-19, 600 SCM Capacity)	01	Vijayawada	Kanuru
6	Delta Aspro CNG Compressor	(Model:IODM 70-3-19, 600 SCM Capacity)	01	Vijayawada	Governorpet
7	Delta Aspro CNG Compressor	(Model:IODM 70-3-19, 600 SCM Capacity)	01	Vijayawada	Vidhyadhrapuram
8	Delta Aspro CNG Compressor	(Model:IODM 70-3-19, 600 SCM Capacity)	01	Vijayawada	Autonagar
9	Delta Aspro CNG Compressor	(Model:IODM 70-3-19, 600 SCM Capacity)	01	Vijayawada	Vidhyadhrapuram
10	Delta Aspro CNG Compressor	(Model:IODM 70-3-19, 600 SCM Capacity)	01	Kakinada	Vakalpudi

Including other accessories like Heat/Air exchanger, CO2 flooding system and Instrumentation & control panel, mass flow meters, PLC, etc., related to the above Gas Compressor packages, Calibration of flow meters, GD, FD, PG, TG, PT, TT and other instruments will be in the scope of vendor.



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**Details running hours of Above-mentioned compressors is as mentioned below as on 30-04-2023 of tender floating:**

Sr.No.	Station Name	Location	Sub-Location	Make	Capacity	Running Hours	Proposed CAMC Months
1	M/s.Basaveswara Filling station	Vijayawada	Ajitsingh nagar	Online	600 scmh	53182	24
2	G S R Vanadurga Filling Station	Vijayawada	Gollapudi	Online	600 scmh	19864	24
3	Prakash Fuel Point	Vijayawada	Autonagar	Online	600 scmh	20722	24
4	Sri Srinivasa Filling Station	Vijayawada	Prasadampadu	Online	600 scmh	12492	24
5	Jay Ramanjuneya Service Station	Vijayawada	Kanuru	Online	600 scmh	2983	24
6	APSRTC depot	Vijayawada	Governorpet	Online	600 scmh	21428	24
7	APSRTC depot	Vijayawada	Vidhyadhrapuram	Online	600 scmh	2096	24
8	K Rama Mohan Rao Eng. Works	Vijayawada	Autonagar	Online	600 scmh	473	24
9	Bhagyanagar gas limited	Vijayawada	Mother station	Online	600 scmh	4071	24
10	Bhagyanagar gas limited	Kakinada	Kakinada	Online	600 scmh	611	24



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## **SECTION 7**

### **SCOPE OF WORK**



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**Scope of Work:**

**OPERATION & MAINTENANCE OF COMPRESSORS UNDER ANNUAL MAINTENANCE CONTRACT**

The Contractor must follow the Comprehensive Maintenance requirement as stated below of special conditions of contract, but not limited to and ensure to provide trouble free services to the satisfaction of the owner.

**1. Accommodation / transportation / medical:**

The contractor shall make his own arrangement for the accommodation of his personnel at respective locations and subsequent transportation arrangement for them from their place of residence to work place or any other place as required and company shall have no obligation in this respect. The company shall not be responsible for providing any medical assistance to the contractor personnel.

**2. Discipline:**

The Contractor shall be responsible for the discipline and good behaviour of all his personnel deployed in the services contracted out and should any complaint be received against any of his employee; he shall arrange to replace such persons within 24 hours of notice issued by the Engineer-in-Charge. The decision of the Engineer-in-Charge in this matter shall be final and binding on the contractor.

**3. Gate pass / identity card:**

The contract shall arrange to supply / renew identity card to his workforce at his own cost, if so required by BGL for security or for any other reasons. Those contractor's personnel shall be required to carry their respective identity cards while on duty and produce on demand.

**4. Right to get services carried out through their agencies:**

Nothing contained herein shall restrict BGL from accepting similar services from other agencies, at its discretion and at the risk and cost of the contractor, if the contractor fails to provide the said services any time.

**5. Sub-letting of contract:**

Sub-letting of the serve portion contract may be permitted subject to due approvals from BGL, however, the overall responsibility of the contract will remain with the main contractor.

**6. Compliance of Laws:**

The party and /or approved sub-contractor shall have to obtain licence from appropriate licensing authority, if required. The Contractor (which shall include the contracting firm / company) shall be solely liable to obtain and to abide by all necessary licenses from the concerned authorities as provided under the various labour laws legislation's including labour license from the competent authority under the Contract Labour ("Regulation & Abolition") Act 1970 and Acts made therefore.



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The party and/or approved sub-contractor shall be responsible for necessary contributions towards PF, Family Pension, ESIC, E-banking transfer or any other statutory payments to Government agencies as applicable under the laws in respect of the contract and personnel deployed by the contractor for rendering services to BGL and shall deposit the required amount with the concerned statutory authorities on or before due dates. The contractor shall obtain a separate PF number from the concerned Regional Provident Fund Commissioner and submit necessary proof of having deposited the employees as well as the employer's contribution to the Provident Fund.

The Contractor shall not engage / deploy any person of less than 18 years under this contract and the persons to be deployed should be physically and mentally fit.

The installation where job is to be carried out are live and have hydrocarbon environment. Contractor shall comply with all safety and security rules and regulations, Acts, laws rules and regulations having over engagement of workers directly or indirectly for execution of work and the hereby undertake to indemnify the company against all actions, suits, proceedings, claims, damages, demands, losses etc., which may raise under minimum wages act, payment of wages act, workmen compensation act, personnel injury ( compensation insurance 0act ESI act, employees provident fund act, family pension and deposit linked insurance scheme or any other act or statutes for the persons engaged under this contract. (A certificate to this effect shall be submitted by the contractor immediately on receipt of LOA) and other rules laid down by BGL for its operation. It shall be the duty / responsibility of the Contractor to ensure the compliance of fie, safety, security and other operational rules and regulations by his personnel. Disregard to these rules by the contractor's personnel will lead to the termination of the contract in all respects and shall face penal / legal consequences.

The Contractor shall arrange for insurance of all these workers engaged on the job as per the relevant Acts, rules and regulations, etc. In case by virtue of provisions of worker's compensation Act, 1923 or any other law in force. BGL has to pay compensation for a workman employed by the Contractor due to any cause whatsoever the amount so paid shall be recovered from the dues payable to the Contractor and / or security deposit.

**7. The officer in charge shall have power to:**

- i) Issue the instructions to the Contractor from time to time during the running of the contract such further instructions as shall be necessary for the purpose of proper and adequate execution of the contract and the Contractor shall carry out and bound by the same.
- ii) During the currency of this contract, BGL can increase and/or decrease the number of the services / technicians to meet contractual requirements.
- iii) Order the Contractor to remove or replace any workman whom the company considers incompetent or unsuitable and opinion of the company representative as to the competence of any workman engaged by the Contractor shall be final and binding on the contractor.

**8. Repatriation and termination:**

BGL shall reserves the right at any time during the currency of the contract, to terminate it by giving 01 months notice to contractor, and upon expiry of such notice period the Contractor shall vacate the site / office occupied by him immediately.

**9. Indemnity agreement:**

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Contractor shall exclusively be liable for non-compliance of the provision of any act, laws, rules and regulations having bearing over engagement of workers directly or indirectly for execution of work and the Contractor hereby undertake to indemnify the company against all actions, suits, proceedings, claims, damages demands, losses, etc. which may arise under minimum wages act, payment of wages act, workman compensation act, personnel injury (compensation insurance) act ESI Act, Fatal Accident Act, Industrial Dispute Act, Shops and Establishment Act, Employees Provident Fund Act, Family Pension and deposit Linked Insurance Scheme or any other act or statutes not herein specifically mentioned but having director or indirect application for the persons engaged under this contract. (A certificate to this effect shall be submitted by the Contractor immediately on receipt of LOA).

It shall be the duty / responsibility of the contractor to ensure the compliance of fire, safety, security and other operational & maintenance rules and regulations by his personnel. Disregard of these rules by the contractors personnel will lead to the termination of the contract in all respects and shall be face panel/ legal consequences.

The party shall arrange insurance of all works engaged on the job as per the relevant acts, rules and regulations etc. in case by virtue of provisions of workers compensation act, 1923 or any other laws in force. Party has to pay compensation for a workman employed by the due to any cause.

**10. Compensation for non-fulfilment of obligation under Comprehensive Annual Maintenance Contract (AMC):**

The contractor has to ensure 97% availability of each package cumulative on monthly basis. The maximum available 3% down time shall be include downtime for preventive, predictive, breakdown maintenance and any other related activity. Non-availability of any machine over and above 3% will attract penalty as given below:

Break-down penalty would be applicable as follows:

- For Shutdown restored within 4 hours in a month - No Penalty.
- For Shutdown restored beyond 4 hours upto 8 hours in a month – Rs. 10000/-
- For Shutdown restored beyond 8 hours upto 16 hours in a month – Rs. 15000/-
- For Shutdown restored beyond 16 hours upto 24 hours in a month – Rs. 18000/-
- For Shutdown restored beyond 24 hours upto 32 hours in a month – Rs. 20000/-
- For Shutdown restored beyond 32 hours upto 40 hours in a month – Rs. 30000/-
- For Shutdown restored beyond 40 hours upto 72 hours in a month – Rs. 40000/-
- In case there is a continuous breakdown beyond 72 hours in a month-25% of Monthly invoice value
- continuous breakdown beyond 360 hours in a month-50% of Monthly invoice value

For example , in month having 30days (30X24=720 hrs), maximum allowable breakdown time without penalty will be 3% of 720 hrs i.e. approx.22 hrs)

In any case the total penalty will be limited to 50% of monthly invoice value of concerned compressor package.

The calculations for levy of penalty as mentioned above shall be calculated on CNG compressor wise basis for each month for each location of BGL.

**11. Contractor's responsibility:**

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The Contractor shall depute his Supervisor / O&M In charge for supervision of the services to receive instructions from Engineer-in-Charge or his representative.

**12. Employment liability of contractor:**

The Contractor shall ensure and will be solely responsible for payment of wages and other dues latest by 7<sup>th</sup> of the following month to the personnel deployed by him in the presence of the Company's representative.

The Contractor shall be directly responsible and indemnify the company against all charges, claims, dues etc. arising out of disputes relating to the dues and employment of personnel deployed by him.

The Contractor shall indemnify the company against all losses or damages caused to it on account of acts of the personnel deployed by the contractor. The Contractor shall ensure regular and effective supervision of the personnel deployed by him.

The Contractor shall be liable for making good all damages / losses arising out of loss or theft of each handled, leakage, pilferage of any office, furniture equipment fitting and fixtures what-so-ever as may be caused directly or indirectly by the engaged persons through him / work carried out by them.

**13. General:**

The maintenance services shall be provided in terms of shift pattern on round the clock basis as mentioned in this document.

- a. The Contractor shall deploy adequate number of technicians/ operators/ engineers as well as tools & tackles, equipment for smooth and proper operation & maintenance of the compressor packages provided in terms of the contract and other rules laid down by BGL for its operation. In case required to meet operational requirements, the Contractor shall augment the same as per direction of Engineer-in- Charge.
- b. The Contractor is required to carry out all services as mentioned in the Scope of Services and Schedule of Rates on all the 365 days including Sunday and all holiday and around the clock.
- c. The Contractor shall allow weekly rest and daily working hours to his workmen as per the relevant Act / Law / and Rule made there under. However, no work shall be left incomplete / unattended on any holiday / weekly rest. Technician / operator provided shall have minimum qualification of ITI. Contract in person or his authorized representative shall provide the services on daily basis to interact with Engineer-in- Charge and deployed workmen.
- d. The workforce deployed by the Contractor for comprehensive O&M services at CNG installation shall be of sound relevant technical professional expertise which is otherwise also essential from the safety point of the personnel of the as well as for the installtion.
- e. Contractor has to ensure the safety of man and machine all the times. Damages of equipment due to negligence will be recovered as per the decision of Engineer-in- Charge, which will be final.
- f. Regarding work completion, the decision of the Engineer-in-Charge will be final and binding.

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- g. The Contractor shall make his own arrangements to provide all facilities like boarding and transport etc. to his workmen.
- h. All personnel of the Contractor entering on work premises shall be properly and neatly dressed and shall wear uniform, badges while working on premises of the company including worksites.
- i. Contractor shall maintain proper record of his working employee's attendance and payment made to them.
- j. The Contractor's representative shall report daily to the EIC for day to day working.
- k. All the safety rules and regulations prevailing and applicable from time to time at the installations as directed by BGL will be strictly adhered to by the contractor
- l. The rates quoted by the Contractor must be inclusive of all taxes & duties except GST. GST to be quoted separately as specified in the SOR.
- m. It will be the responsibility of the Contractor to pay as per the minimum wages of the appropriate government applicable under the Minimum Wage Act 1948 from time to time.
- n. The maintenance services shall be provided on the round the clock basis. The Contractor is responsible to provide effective and efficient services round the clock and assure that there is no disruption in the services for want of any resources.
- o. The Contractor shall deploy adequate number of technicians at various site offices in consultation with Engineer-In-Charge to provide trouble free operation & maintenance of the compressors. Site in charge shall always be available 24 hours on Mobile Phone.
- p. All arrangements for communication from control room to the contract person working on job under the services shall be the responsibility of the contractor, viz pagers / walky-talky /telephone.
- q. All the jobs mentioned under scope of services shall be carried out as per sound engineering practices, work procedure documentation, recommendation of the manufacturer and as per the guidelines / direction of engineer-in-charge of authorized representative.
- r. The Contractor shall ensure and will be solely responsible for payment of wages and other dues latest by 7<sup>th</sup> of the following month to the personnel deployed by him in the presence of the Company's representative and the wages should be distributed through bank and the statement of the wages should submitted along with monthly bills duly certified by Bank.
- s. The Contractor shall be directly responsible and indemnify the company against all charges, claims, dues etc. arising out of disputes relating to the dues and employment of personnel deployed by him.
- t. The Contractor shall indemnify the company against all losses or damages caused to it on account of acts of the personnel deployed by the contractor. The Contractor shall ensure regular and effective supervision of the personnel deployed by him.



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u. The Contractor shall be liable for making good all damages / losses arising out of loss or theft of each handled, leakage, pilferage of any office, furniture equipment fitting and fixtures what-so-ever as may be caused directly or indirectly by the engaged persons through him / work carried out by them.

v. Contractor's representatives shall provide day to day compressor package parameters logs details both hard and softcopies as per the directions of Site In-charge.

w. Cables, connectors required for data download and other any specific job shall be provided by Contractor.

x. Site in charge shall always be available 24 hours on Mobile Phone. All arrangements for communication from control room to the contract person working on job under the services shall be the responsibility of the contractor, viz pagers / walky-talky etc., with out any additional cost to BGL.

y) All the jobs mentioned under scope of services shall be carried out as per sound engineering practices, work procedure documentation, recommendation of the manufacturer and as per the guidelines / direction of engineer-in-charge of authorized representative.

**14) Operation and Comprehensive Annual Maintenance Contract (AMC) Services for Delta make Compressor Packages of BGL at Vijayawada & Kakinada**

**14.1 Equipment under CAMC**

The scope of work includes but not limited to operation and maintenance of CNG compressor of make Delta compressor packages installed and operational Including other accessories like Heat/Air exchanger, CO2 flooding system and Instrumentation & control panel, mass flow meters, PLC, Radiator with motors and pumps, Air Compressors, Control panel etc., related to the above CNG Compressor packages.

Sr. No.	Station Name	Location	Sub-Location	Make	Capacity	Running Hours	Proposed CAMC Months
1	M/s.Basaveswara Filling station	Vijayawada	Ajitsingh nagar	Online	600 scmh	53182	24
2	G S R Vanadurga Filling Station	Vijayawada	Gollapudi	Online	600 scmh	19864	24
3	Prakash Fuel Point	Vijayawada	Autonagar	Online	600 scmh	20722	24
4	Sri Srinivasa Filling Station	Vijayawada	Prasadampadu	Online	600 scmh	12492	24
5	Jay Ramanjuneya Service Station	Vijayawada	Kanuru	Online	600 scmh	2983	24
6	APSRTC depot	Vijayawada	Governorpet	Online	600 scmh	21428	24
7	APSRTC depot	Vijayawada	Vidhyadhrapuram	Online	600 scmh	2096	24



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8	K Rama Mohan Rao Eng. Works	Vijayawada	Autonagar	Online	600 scmh	473	<b>24</b>
9	Bhagyanagar gas limited	Vijayawada	Mother station	Online	600 scmh	4071	<b>24</b>
10	Bhagyanagar gas limited	Kakinada	Kakinada	Online	600 scmh	611	<b>24</b>

\* Stations/ locations names are tentative only, however locations may vary with in Vijayawada GA.

"The Sub-location/Station Name for CAMC services described is tentative and could be altered "

\* In case if compressor shifted from Kakinada to Vijayawada , bidder has to provide the CAMC services at other location accordingly.

#### 14.2. Scope of supply:

- All spares, required for carrying out the operation and maintenance of the complete CNG compressor packages during the contract period, including preventive, predictive, breakdown maintenance etc. for continuous and uninterrupted operation of compressor packages shall be supplied by the contractor at free of cost to the Owner.
- Any spare parts during the contract period shall be supplied by contractor free of cost.. Further, all the consumables, lubricating oil, coolant, sealant, manpower, DM water, housekeeping etc., required for comprehensive operation and maintenance of the complete compressor package during the contract period, including periodic, breakdown maintenance for continuous and uninterrupted operation of the compressor package shall be in scope the contractor and shall be kept in stock. Electricity shall be supplied by free cost to the contractor.  
The contractor shall have to keep all the spares, consumables, etc., for carrying out periodic, breakdown, emergency maintenance etc., of the CNG compressor package including the electrical panels, air compressors, leak detection system, Co2 flooding system, CNG compressor, heat exchanger , PLC of compressor package, CNG piping around the compressor area and other auxiliaries so as to minimize the down time of the equipment .Non-availability of compressor package for non-availability of spares shall be liable for penalty as per penalty clause.
- All tools, tackles and fixtures required for carrying out the above maintenance of the compressor shall be in scope of the Contractor. The scope will also include handling equipment like crane, forklift, chain pulley block etc. required during the any maintenance activity.  
Painting of the required equipment/enclosure should be completed on yearly basis including heat resistance paint on high temperature parts such as exhaust system, etc., is to be done by the contractor as per requirement to avoid the corrosion on equipment parts and to maintain the machine in healthy condition.
- Any expert services required from shall be arranged by the Contractor or his agent at his own cost. All arrangements like phone, fax, computer, internet etc. required for correspondences with above personnel shall be arranged by the Contractor.
- The periodic maintenance required to be done as per OEM recommendation shall be taken up promptly. The Contractor shall provide the detailed preventive maintenance schedule along with
  - Estimated down time required for each type of maintenance schedule.
  - List of spares and their quantities required for each type of maintenance schedule per Compressor.

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iii) Type and number of man days required for each type of maintenance schedule per Compressor.

- f) The Contractor shall use new spares during maintenance. In case, the schedule maintenance of the OEM manual recommends checking and replacing parts like valves springs, valve plates, piston rings etc. after certain time interval, same shall be replaced or used further only on approval from the BGL representative. However any unto ward consequences for non-replacement of such parts shall be the responsibility of the Contractor.
- g) All routine and periodic checks / inspections required to be done as per OEM recommendation shall be done by the Contractor. Instruments required for above inspection like vernier calliper, micrometer screw gauge, fill gauges, bore gauge, vibration meter etc. shall be in scope of the Contractor and these instruments shall be calibrated every year.
- h) All parts replaced by the Contractor during the above contract period shall be properly packed and stored/disposed/scrapped.
- i) The Contractor shall submit a copy of the daily / weekly / fortnightly / monthly / bio-monthly / quarterly and yearly performance report to the EIC in both soft and hard form. All stationery including the printed material shall be in scope of the Contractor.
- j) All the maintenance / inspection job carried out by the Contractor shall be recorded and the report of the same shall be jointly signed by BGL representative.
- k) The EIC will be final authority to take decision with regards to maintenance or replacement of spares or any disagreement between the Contractor and BGL, during the execution of the contract.
- l) The Contractor shall carry out calibration of gas detectors and flame detectors every year or earlier as per requirement or instruction of EIC of BGL. Also yearly calibration of all the instruments such as pressure gauges, transmitters, switches, mass flow meters etc. shall be in the scope of the Contractor. In addition to the above all safety relief valves shall also be tested and calibrated once in every year.
- m) PLC Programming/repair/reinstall is in the scope of contractor and same should be carried out.
- n) Calibration shall be done from government-approved laboratories and shall be carried out at least 15 days prior to the calibration due date.
- o) The periodic maintenance required to be done as per OEM recommendation shall be taken up promptly. The Contractor shall plan such maintenances during non peak hours and in consultation with the EIC of BGL. Any maintenance that needs to be taken up shall be well planned in advance with due approval of the EIC. The scope shall include preparation of maintenance schedule for carrying out the maintenance during the contract period.
- p) Ensure 97% availability of each package on monthly basis.
- q) Submission of monthly preventive , scheduled and breakdown maintenance reports to EIC of respective location along with supported documents.
- r) A detailed report of all spares & consumables used have to be maintained by the contractor , having details of part number, quantity used, date , expected running hours before replacement , etc. The same has to be submitted monthly to BGL.

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- s) All spare parts to be replaced in the compressor package should be brand new and unused. However, repair of valves and packing assembly shall be permitted. Random inspection of spare parts to be utilized in the CNG compressors may be carried out by BGL's representative.
  - t) All routine leak checks / inspections of the associated SS-tubing, fittings, valves and hoses outside the compressor package (i.e. inlet & outlet of compressor), which are part of delta compressor packages shall be done by contractor.
  - u) The contractor shall ensure the compressor running parameters are recorded in daily log book including all vital parameters and maintenance records of preventive and scheduled maintenance and spare used. The format of log book to be finalized in consultation with EIC in line with OEM specifications/ recommendations. All stationery including the printed material shall be in the scope of contractor.
  - w) The contractor shall submit a copy of the monthly /quarterly and yearly maintenance reports to the EIC in both hard and soft form including safety interlock checks. All stationery including the printed material shall be in the scope of contractor. None of the interlocks should be by passed for normal CNG operations. Prior approval of EIC has to be obtained, in case the same is unavoidable. The same should be rectified by contractor within a week's time. A separate register is to be maintained for recording the time of occurrence and time of rectification and the same should be signed by the EIC for each such event.
- a. The entire maintenance /inspection job carried out by the contractor shall be recorded and the report of the same shall be jointly signed by the EIC.
  - b. The contract shall carry out hydrotesting of cylinders of CO<sub>2</sub> flooding system as per applicable schedule (once in every 03 years).
  - c. The contractor shall carry out testing of smoke, fire and heat detectors, if any on yearly basis for their smooth functioning & corrective action.
  - d. The contractor shall carry out retesting of pressure vessels periodically as per gas cylinders rules 1981 static & mobile pressure vessels rules for the vessels in the CNG compressor package.

**14.3 CNG compressors operations:**

1. **02 shift operation of compressors** (i.e. tentatively 06:00 -14:00 hrs & 14:00 -22:00 hrs) despite the machines running on round the clock basis as per requirement.

Also, if required bidder must adjust the services if required to run the compressors on round the clock basis.

2. **Details of GA wise required operator cum technician over all the machines at respective GA is as below:**

➤ **Vijayawada-03 nos. per shift**

➤ **Kakinada-No operator required.**

Above mentioned requirement of operators cum technicians per shift over all the compressors in respective GA, bidder has to plan accordingly to deploy the operators cum technicians at strategic locations to run the machines

3. Bidder has to plan in such way that operators have to travel less distance and cover all the allotted CNG stations in less time to operate the delta compressors. Bidder has to provide the quote considering the transport allowances etc., to visit the allotted stations. transportation charges, etc., in bidder's scope.

4. Bidder has to visit all the locations before submitting the quote and wherever required machine has to operate for 24X7, bidder has to consider the same in his quote and it is the responsibility

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of the bidder to make the compressor available to BGL 24X7. As per the requirement, machine shall be operated 24X7 at stations where round the clock operations can be allowed .

5. The contractor shall carryout daily operation activities on shift basis as mentioned above for CNG compressor, Air compressor, and other associated equipment as per OEM recommendations in order to ensure smooth operations and minimize downtime of the compressor packages.
6. If the operator delivers the work beyond the 2 shift operations then payment shall be made against the operation charges at actuals against the submission of bills by bidder. Prior approval shall be taken from EIC. If the operator delivers the work beyond the 2 shift operations then payment shall be made proportionally against the operation charges upon certification from the EIC/ SIC.
7. The contractor will deploy adequately trained personnel for carrying out operations activities.
8. All the vital parameters of the CNG compressor such as oil level, air, coolant level etc. are to be noted in daily log book.
9. Opening and closing readings of all the mass flowmeters in the CNG compressor packages are to be recorded at 06:00 AM or as advised by EIC and the meter reading records are to be provided to EIC/BGL's representative on daily basis.
10. The operations of UPS and daily recording of vital parameters as instructed by EIC is in contractors scope.
11. The opening and closing pressure readings of all CNG cascades in the CNG station will be recorded by operator and will submit to BGL.
12. Short term preservation of compressor package if required due to CNG station operational requirements.
13. All other routine, scheduled maintenances as per OEM recommendations and not specified in tender document shall be in the scope of contractor.

**Specification :** Work shall be carried out as per the O&M manuals of The OEM.

**14.4 Contractor additional Roles and Responsibility:**

The functions and responsibilities are listed below:

- a) To function as an integral member of the BGL O&M coordination team.
- b) Interface with Contractor / BGL on all equipment and system issues mobilize any Contractor / BGL resources required for scheduled or unscheduled maintenance.
- c) Assist BGL personnel with development and implementation of sound operating and maintenance strategy and procedures, including corrective action guidance.
- d) Assessments of consumables, operational and maintenance spares,etc.
- e) Maintain spares inventory well in stock to avoid any uninterrupted operations on round the clock basis.
- f) Provide reports as per BGL O&M practices.
- g) Conduct training programs for upgrading O&M resources, participate in all Contractor / BGL sponsored safety trainings.
- h) Collect and provide data as deemed necessary by BGL to analyse equipment performance.
- i) Responsible for performing all routine, breakdown & scheduled maintenance activities during O&M.
- j) Monitor the performance of equipment's.
- k) Monitor all essential parameters of the running equipment and report any discrepancy in operational parameters.

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- l) Responsible for log book data capturing, minor maintenance activities, safety of equipments for safe operations.
- m) Maintenance team shall be made available for work on 24 Hrs. basis.
- n) In case if compressor shifted from Kakinada to Vijayawada , bidder has to provide the CAMC services at other location accordingly

**15. Scope of work – Operation & Maintenance**

**15.1 Special Services**

- i. Contractor shall arrange calibration of all the instruments which are installed in the package annually after necessary approval from BGL.
- ii. Contractor shall arrange visit of vendor representative for package routine maintenance depending on site requirement. Services like inspection, breakdown, top / major overhauls shall be taken care by contractor.
- iii. Contractor shall arrange welder / plumber when required with material if required
- iv. Contractor shall arrange Panel vendor / Software programmer visit when required with parts if required
- v. Contractor shall provide all necessary lifting equipment
- vi. Contractor shall provide all necessary facilities of any additional repair, welding, testing, calibrations etc.
- vii. OEM services if required for any Overhauls
- viii. Maintenance of the instruments, transmitters, controls, switchgear with in the battery limit
- ix. Contractor shall provide First Aid box at site
- x. Contractor shall provide painting of canopy and equipment's annually / as and when required
- xi. Contractor shall supply electrical system / panel which are damaged in case of power failure.
- xii. Contractor should carry out the Major /Top Overhauling of Compressor Package as per the recommendation of the OEM or when required.
- xiii. Contractor should consider the expenses towards carrying out the major & top overhauling the total compressor package as per the OEM recommendations and present running hours.
- xiv. Bidder should provide the necessary support towards integration and automation of compressor package with the BGL's requirement .
- xv. Bidder should download the PLC, HMI programme etc and submit the copy to BGL.

16. All wastes (hazardous, bio-degradable & non-biodegradable) are stored & disposed off as per documented procedure.



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## **SECTION 8**

### **SPECIAL CONDITIONS OF CONTRACT**



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**1. General Information:**

The special conditions of contract shall be read in conjunction with general condition of contract (**GCC**), Schedule of rates, scope of work and any other document forming part of contract, wherever Context so Requires. **GCC** is available at tender issuing office and same shall be referred to by Tendered. Notwithstanding, the subdivisions of the documents in to separate sections every part of each shall be deemed to supplementary of every other part and shall be read with and into the Contract so far as it may be practicable to do so. Where any portion of the special conditions of the Contract (**SCC**) is repugnant to or at variance with any provisions of the **GCC** then provision of **SCC** shall be deemed to override the provision of **GCC** only to the extent of each repugnance or variations. In case of any contradictions the Decision of the Engineer-I In-Charge will be final and binding on the Contractor.

In case of contradiction between Indian or other applicable Standards, General Conditions of Contract, Special Conditions of Contract, Specifications, drawings, Schedule of Rates, the following shall prevail in order of precedence:

- i) Letter of acceptance along with statement of Agreed variations.
- ii) Fax / Letter of Intent / Fax of Acceptance
- iii) Schedule of Rates as enclosures to letter of acceptance
- iv) Job / Particular Specifications
- v) Drawings
- vi) Technical / Material Specifications
- vii) Special Conditions of Contract.
- viii) General Conditions of Contract
- ix) Indian Standards
- x) Other Applicable Standards

It will be contractor's responsibility to bring to the notice of Engineer-in-charge any irreconcilable conflict in the contract documents before starting the work(s) of making the supply with reference which the conflict exists.

In the absence of any specifications covering any material, design of work(s) in the same shall be performed / supplies / executed in accordance with Standards Engineering Practice as per the instructions / directions of the Engineer-in-charge, which will be binding on the Contractor.

**2. Payment Terms:**

Monthly running account bills in triplicate subject to carrying out maintenance as per the scope of the work. Payment shall be made from the F&A Dept. of BGL, within 15 days from the date of receipt of the bill. The bill should be submitted along with the copies of all monthly reports like Scheduled/Preventive M&R, statutory testing reports/ calibration reports, service reports etc as necessary duly certified by station In-Charge/ Engineer-In- Charge.

The Final Bill shall be submitted by the contractor within a month from the date of completion of the contract and payment of final bill shall be made to the contractor within 30 days of submission of the bill.

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**3. Contract Performance Guarantee (Security Deposit):**

- i. After finalization of the Contract, whenever work order is issued by the Owner, ASSOCIATES shall furnish 7.5% of one year contract value within 30 days of award of FOA/WO/PO or 5% of contract /order value within 30 days of award and balance to be deducted in each RA bills till balance 2.5% amount is achieved. The deducted amount can be released/ deduction can be stopped against submission of Bank Guarantee of equivalent amount.
- ii. For security deposit/ Contract Performance Guarantee purpose, Contract/ Order Value as mentioned above shall be exclusive of taxes and duties.
- iii. 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).
- iv. Contract performance guarantee is to be submitted by bidder within 30 days after issuance of Fax/Letter of Intent /Acceptance (notification of Award) and in event of delay in submission of CPBG / SD, the contract can be terminated.
- v. In the event of Completion of project being delayed beyond the Scheduled Completion Date, for any reason whatsoever, the Owner may without prejudice to any other right or remedy available to the Owner, operate the Bank Guarantee to recover the Compensation for delay leviable as per relevant clause of GCC. The Bank Guarantee amount shall thereupon be increased to the original amount, or the ASSOCIATES may alternatively submit a fresh Bank Guarantee for the equivalent amount of compensation for delay recovered.

**3.1 Defect Liability Period (DLP) is 3 months from the date of completion of the contract.**

**3.2** BGL shall have the right to recover from the security deposit/bank guarantee the balance amount, if any, which could not be recovered from the payments to the bidder under any of the clause of this contract.

**3.3** The bidder shall be liable to pay further balance of recovery/claim if any, which could not be recovered from the payments to the bidder and/or from the security deposit/bank guarantee.

**3.4** In case the bidder fails to carry out the job, as per the terms and Conditions of the contract, the security deposit/bank guarantee is liable to be forfeited/invoked, without prejudice to any other right, which BGL may have under this contract or otherwise.

**4. Indemnity agreement:**

Contractor shall exclusively be liable for non-compliance of the provision of any act, laws, rules and regulations having bearing over engagement of workers directly or indirectly for execution of work and the Contractor hereby undertake to indemnify the company against all actions, suits, proceedings, claims, damages demands, losses, etc. which may arise under minimum wages act, payment of wages act, workman compensation act, personnel injury (compensation insurance) act ESI Act, Fatal Accident Act, Industrial Dispute Act , Shops and Establishment Act, Employees Provident Fund Act, Family Pension and deposit Linked Insurance Scheme or any other act or statutes not herein specifically mentioned but having director or indirect application for the persons engaged under this contract. (A certificate to this effect shall

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be submitted by the Contractor immediately on receipt of LOA/WO).

**5. Mobilization Period:**

Within Two weeks from the date of award of Work Order or as intimated by Engineer In charge (EIC).

**6. Contract Period:**

The effective period of the contract (location wise total months given in the SOR) shall starts from the date of handover of site by BGL's Engineer In-Charge.

**7. Extension of Contract:**

The contract may be extended for a maximum period of six months at the sole discretion of BGL, subject to satisfactory performance of the Vendor during the contract period.

**8. Taxes and Duties:**

**8.1** Income tax at the prevailing rate as applicable from time to time shall be deducted from contractor's bills as per Income tax Act, and quoted rates shall be deemed to include this.

**8.2** The contractor agrees to and does hereby accept full and exclusive liability for the payment of any and all taxes, duties including excise duty, octroi etc now in force and hereafter increased, imposed or modified from time to time in respect of works and materials. The prices shall also be inclusive of Sales tax but exclusive of Service Tax on works contract / Trade tax / turnover tax as applicable. Owner shall make from contractors bills such tax deductions as are required as per rules and regulations in force from time to time.

**9. Statutory Variation in Taxes & Duties:**

**9.1** GCC clause of statutory Taxes & duties is modified to the following extent.

**9.2** The statutory variation in Goods & Service Tax (GST) etc. within the Contractual completion period shall be to Employer's (BGL) account, against submission of the documentary evidence. More details are mentioned in ITB.

**10. Recovery:**

Cost of any Damage /loss of the property of BGL, by the contractor shall be recovered from the Bill / security deposit of the contractor and decision of the BGL / EIC in this regard shall be final Binding and conclusive.

**11. Right to get services carried out through other Agencies:**

Nothing contained herein shall restrict BGL from accepting similar services from other agencies, at its discretion and at the risk and cost of the contractor, if the contractor fails to provide the said services any time. On such occasion BGL may avail services of L2, L3. etc. bidders, provided the same L1 rates, terms and conditions are acceptable to them.

**12. Safety & Security:**

**12.1** The contractor shall provide proper cotton dresses (Uniform), safety shoes and to provide safety kit as per requirement. No contractor's personnel shall be allowed on duty without Sign & Seal of Bidder

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wearing applicable Safety gears. Contractor should also ensure police verification of the personnel before deploying them.

- 12.2** The contractor shall provide signed photo identification cards for his personnel to be deployed with in BGL'S premises. The contractor shall obtain proper gate passes for men/ materials from BGL's Security department.

**13. Compliance of Laws:**

**The bidder shall have PAN, EPF, ESIC and Service Tax Registration Number and shall submit the registration copies at the time of submission of bids.**

The Contractor deploying 20(twenty) or more workmen as contract labour shall have to obtain licence from appropriate licensing authority, if required. The Contractor (which shall include the contracting firm/ company) shall be solely liable to obtain and to abide by all necessary licenses from the concerned authorities as provided under the various labour laws legislation's including labour license from the competent authority under the Contract Labour ("Regulation & Abolition") Act 1970 and Acts made thereafter.

The Contractor shall be responsible for necessary contributions towards PF, Family Pension, ESIC or any other statutory payments to Government agencies as applicable under the laws in respect of the contract and personnel deployed by the contractor for rendering services to BGL and shall deposit the required amount with the concerned statutory authorities on or before due dates. The contractor shall obtain a separate PF number from the concerned Regional Provident Fund Commissioner and submit necessary proof of having deposited the employees as well as the employer's contribution to the Provident Fund.

The Contractor shall not engage / deploy any person of less than 18 years under this contract and the persons to be deployed should be physically and mentally fit.

The installation where job is to be carried out are live and have hydrocarbon environment. Contractor shall comply with all safety and security rules and regulations and other rules laid down by BGL for its operation. It shall be the duty / responsibility of the Contractor to ensure the compliance of fire, safety, security and other operational rules and regulations by his personnel. Disregard to these rules by the contractor's personnel will lead to the termination of the contract in all respects and shall face penal / legal consequences.

The Contractor shall arrange for insurance of all these workers engaged on the job as per the relevant Acts, rules and regulations, etc. In case by virtue of provisions of worker's compensation Act, 1923 or any other law in force. BGL has to pay compensation for a workman employed by the Contractor due to any cause whatsoever the amount so paid shall be recovered from the dues payable to the Contractor and / or security deposit.

**14. Validity of Quoted Rates:**

The Rates Quoted shall remain valid for the entire period of Contract and no escalation whatsoever shall be permissible after award of the contract except for the statutory variation due to Goods & Service tax (GST). Any other taxes and duties are inclusive in the rates quoted by the party and it shall remain firm for the entire period of contract.

**15. Rejection of Tender:**

- 15.1** BGL reserves the right to accept or reject any or all tenders and to waive irregularities and Formalities at its own discretion.

**15.2** Any attempt for canvassing shall debar the tender resulting in summarily rejection of the tender.

**16. Employment Liability of Contractor:**

The Contractor shall ensure and will be solely responsible for payment of wages and other dues latest by 7<sup>th</sup> of the following month to the personnel deployed by him in the presence of the Company's representative.

The Contractor shall be directly responsible and indemnify the company against all charges, claims, dues etc. arising out of disputes relating to the dues and employment of personnel deployed by him.

The Contractor shall indemnify the company against all losses or damages caused to it on account of acts of the personnel deployed by the contractor. The Contractor shall ensure regular and effective supervision of the personnel deployed by him.

The Contractor shall be liable for making good all damages / losses arising out of loss or theft of each handled, leakage, pilferage of any office, furniture equipment fitting and fixtures what-so-ever as may be caused directly or indirectly by the engaged persons through him / work carried out by them.

The Contractor shall, at his own expense, comply with the Model Rules for labour welfare framed by the Govt. / Statutory Authorities under the various labour laws from time to time for the protection of their health, etc. In case Contractor fails to make arrangements as aforesaid, the BGL shall be entitled to do so and recover the cost thereof from Contractor.

The Contractor shall at his own expense arrange for the safety provisions as required by the BGL in respect of all his labour directly or indirectly employed for performance of his obligations under this Agreement and shall provide all facilities in connection therewith. In case Contractor fails to make arrangements and provide necessary facilities as aforesaid, the BGL shall be entitled to do so and recover from Contractor.

The Contractor will be fully responsible for complying with all relevant provisions of the Contract Labour (R&A) Act, 1970, including registering himself / themselves under this Act, if applicable and shall pay rates of wages and observe hours of work and conditions of employment according to rules in force from time to time.

The Contractor shall observe and implement all the laws of the land and the rules framed there under for the staff employed by him and the BGL shall in no event be liable or responsible for any default or non-observance of such laws / rules on the part of the Contractor.

The Contractor shall indemnify and keep indemnified the BGL against any damage and /or injury caused to the premises, or to the properties or to the members of the staff of the BGL through the neglect or default or otherwise of the Contractor.

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In case of non-payment of wages by the Contractor to their employees, and on being satisfied that such payments have not been made by the Contractor within the stipulated period as mentioned herein above, the BGL shall have the right to pay the dues to the Contract workmen engaged by the contractor for performing the aforesaid contractual obligations and deduct the amount so paid from the bills submitted by the Contractor.

That if during the subsistence of the contract, any monetary liability occurs and/or becomes payable by the Contractor and has to be paid by the BGL by order of any authority or under any provisions of any law, the amount of such liability shall be recovered by BGL from the Contractor from the next bill / security deposit, as applicable.

That in case the services are not provided at any time for whatsoever reasons, the Contractor shall make alternative arrangements so as to enable the work to be done satisfactorily at no extra cost to the BGL. If no such alternate arrangements are made, proportionate deductions shall be made out of the contract amount. BGL shall be free to make alternate arrangement, the cost of which shall be recovered from the Contractor's bills. In case of not providing the services on a particular working day, the pro rata deduction would be made from the monthly bill for the afore said day.

That any loss, theft or damage to the life and/or property of the employee of the BGL and/ or property of BGL shall be compensated by the Contractor, if the cause of such loss, theft or damage is on account of default, negligence and/or lapses of the employees of the Contractor. Any act of indiscipline / misconduct / theft / pilferage on the part of the employees of the Contractor would be viewed seriously and the BGL will have the right to terminate the contract forthwith without giving any prior notice.

**17. PROVISION REGARDING PRADHAN MANTRI SURAKSHA BIMA YOJANA (PMSBY) AND PRADHAN MANTRI JEEVAN JYOTI BIMA YOJANA (PMJJBY)**

Contractor shall ensure that all its personnel deployed under this contract have obtained additional insurance coverage under the Pradhan Mantri Suraksha Bima Yojana (PMSBY) and Pradhan Mantri Jeevan Jyoti Bima Yojana (PMJJBY) through the participating banks and submit the proof of such insurance coverage to the satisfaction of BGL. The cost of the insurance premium amount for both the above schemes shall be borne by the contractor giving evidence/proof to BGL in this respect and the Contractor shall suitably consider the same in their bid. Both the schemes are to be regulated continuously on yearly basis and the same should be renewed on each successive relevant date in subsequent years.

**18. PROVISION IN TENDER REGARDING CONTRACTOR TO ENGAGE CONTRACT MANPOWER BELONGING TO SCHEDULED CASTES AND WEAKER SECTIONS OF THE SOCIETY:**

While engaging the contractual manpower, Contractors are required to make efforts to provide opportunity of employment to the people belonging to Scheduled Castes and weaker sections of the society also in order to have a fair representation of these sections.



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Bhagyanagar Gas  
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## **SECTION 9**

### **SCHEDULE OF RATES (SOR)**



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**Bhagyanagar Gas Limited  
SCHEDULE OF RATES (SOR)**

**Financial Bid / Priced Bid**

**Bid Document ref: BGL/578/2023-24, dtd. 17.06.2023**

**Item :Hiring an agency for carryout Operating & Comprehensive Annual Maintenance Contract (CAMC) of Delta make 600 SCM capacity CNG Compressor Packages for a period of 02 Year at Vijayawada & Kakinada.**

**Name of Bidder:**

Sl.No.	Item Description	SAC CODE	UOM	Proposed Period (Compressor Months)	Unit rate per month Inclusive of all Taxes & Duties Except GST (Rs.)	Total Amount Inclusive of all Taxes & Duties Except GST (Rs.) (figures)	Total Amount Inclusive of all Taxes & Duties Except GST (Rs.) (words)
1	2	3	4	5	6	7 =5 x 6	8



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	<b>Lump sum charges for Comprehensive AMC for Delta Compressor packages and its accaesories</b> <b>[a) Delta Aspro CNG Compressor (Model: IODM 70-3-19,600 SCMH Capacity)</b> <b>[b] Electric Motor make WEG &amp; SIEMENS with 120 HP &amp; 100 HP</b> <b>[c] Air compressor Motor WEG make with 2 HP</b> <b>Inclusive of all operations and Maintenance manpower, Spare, Consumables, lubricants, Carrying out regular, Periodical and breakdown maintenance as per OEM's specifications. any other special services, calibration, tools and tackles etc.</b> <b>Any other item required for smooth operation of compressor not mentioned above is also in the scope of the contractor.</b>						
	<b>CAMC for Vijayawada and Kakinada Locations</b>						
1	M/s. Basaveswara Filling station, Ajitsingh nagar			24		-	
2	G S R Vanadurga Filling Station, Gollapudi			24		-	
3	Prakash Fuel Point, Autonagar			24		-	
4	Sri Srinivasa Filling Station, Prasadampadu			24		-	
5	Jay Ramanjuneya Service Station, Kanuru			24		-	
6	APSRTC depot, Governorpet			24		-	
7	APSRTC depot, Vidhyadhrapuram			24		-	
8	K Rama Mohan Rao Eng. Works, Autonagar			24		-	
9	Bhagyanagar gas limited, Vidhyadhrapuram			24		-	



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10	Bhagyanagar gas limited ,Vakalpudi		24		-	
Total amount inclusive of all Taxes & Duties Exclusive of GST in Rs.					-	
GST -----,Rs.						
Grand Total inclusive of GST and all Taxes & Duties in Rs.					-	