



**CENTRAL UP GAS LIMITED**  
**(CITY GAS PROJECT IN KANPUR & BAREILLY)**

**BID DOCUMENT FOR THE PROCUREMENT OF  
COMMERCIAL METERS WITH INTEGRATED  
AMR**

**BID DOCUMENT NO: CUGL/C&P/TEN2021/20,219,036**

**LIMITED DOMESTIC COMPETITIVE BIDDING**

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**IFB  
(INVITATION FOR  
BID)**

**SECTION-I**

सेन्ट्रल यू.पी. गैस लिमिटेड  
(गैल (इंडिया) लिमिटेड एवं भारत पेट्रोलियम का संयुक्त उद्यम)



Central U.P. Gas Limited  
(A Joint Venture of GAIL (India) Limited and BPCL)

**INVITATION FOR BID (IFB)**

Bid Document No. : CUGL/C&P/TEN2021/20,219,036  
To,

Date : 31/12/2020

Contact No.

Kind Attn :

Dear Sir,

Central UP Gas Limited (CUGL), a Joint Venture company between GAIL & BPCL, as part of its service to provide clean fuel to Kanpur & Bareilly city is currently executing City Gas Distribution Project to supply Natural Gas to Industrial, Commercial and Domestic consumers and CNG for Vehicles.

- |                            |   |
|----------------------------|---|
| 1.0 Project                | : City Gas Distribution   |
| 2.0 Name of Work           | : Procurement of Commercial Meter With Integrated AMR   |
| 3.0 Scope of Work          | : As per Tender Document  |
| 4.0 Time Schedule          | : As per Tender Document  |
| 5.0 Bid Validity           | : 120 days from the bid due date  |
| 6.0 Bid Security / EMD     | : Group (A) : Rs. 1,08,900/-<br>Group (B) : Rs. 2,25,400/-  |
| 7.0 Pre-Bid Meeting        | : 08/01/2021; 12:30 Hrs. IST  |
| 8.0 Bid due Date with Time | : 19/01/2021 up to 15:00 Hrs. IST   |
| 9.0 Designated Place       | : CENTRAL U.P. GAS LIMITED,<br>Regd. Off. 7th Floor, UPSIDC Complex, A-1/4, Lakhanpur,<br>Kanpur-208024 India |
| 10.0 Type of bid           | : Two Bid System  |
| 11.0 Basic of Evaluation   | : Item wise   |

Bidders to quote for complete items as per SOR. Please note that Owner intends to evaluate and finalize this tender on Item wise. Failure to quote for any of the items listed to rejection of bid.  
CUGL has the right to award the job either in part or full.

For & on behalf of  
Central U.P. Gas Limited

Sr. Manager C&P

रजिस्टर्ड ऑफिस : सातवाँ तल, यूपीएसआईडीसी कॉम्प्लेक्स, ए-1/4, लखनपुर, कानपुर - 208 024 उ.प्र. • दूरभाष : 0512-2585001, 2583462 • फैक्स : 2582453 • वेबसाइट : www.cugl.co.in

Registered Office : 7th Floor, UPSIDC Complex, A-1/4, Lakhanpur, Kanpur- 208024, U.P. • Tel.: 0512-2585001, 2583462 • Fax : 2582453 • Website : www.cugl.co.in

CIN No. : U40200UP2005PLC029538

An ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007 Certified Organisation

**ITB  
(INSTRUCTION TO  
BIDDER)**

**SECTION -II**

## **INSTRUCTIONS TO BIDDERS**

### **A. GENERAL**

#### **1.0 SCOPE OF BID:**

- 1.1 The Employer/ Owner/ CUGL as defined in the "General Conditions of Contract [GCC]", wishes to receive Bids as described in the Bidding Document/Tender document issued by Employer/Owner/CUGL.
- 1.2 SCOPE OF BID: The scope of work/ Services shall be as defined in the Bidding documents.
- 1.3 The successful bidder will be expected to complete the scope of Bid within the period stated in Special Conditions of Contract.
- 1.4 Throughout the Bidding Documents, the terms 'Bid', 'Tender' & 'Offer' and their derivatives [Bidder/Tenderer, Bid/Tender/Offer etc.] are synonymous. Further, 'Day' means 'Calendar Day' and 'Singular' also means 'Plural'.

#### **2.0 ELIGIBLE BIDDERS:**

- 2.1 The Bidder shall not be under a declaration of ineligibility by Employer for Corrup & Fraudulent practices, as defined in "Instructions to Bidders [ITB], Clause No. 39"
- 2.2 The Bidder is not put on 'Holiday' by CUGL or banned/blacklisted by Government department/ Public Sector on due date of submission of bid. If the bidding documents were issued inadvertently/ downloaded from website, offers submitted by such bidders shall not be considered for opening/ evaluation/Award and will be returned immediately to such bidders.

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

It shall be the sole responsibility of the bidder to inform CUGL in case the bidder is put on 'Holiday' by CUGL or banned/blacklisted by Government department/ Public Sector on due date of submission of bid and during the course of finalization of the tender. Concealment of the facts shall tantamount to misrepresentation of facts and shall lead to action against such Bidders as per clause 39 of ITB.

- 2.3 The Bidder should not be under any liquidation court receivership or similar proceedings on due date of submission of bid.

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

It shall be the sole responsibility of the bidder to inform CUGL in case the bidder is under any liquidation court receivership or similar proceedings on due date of

submission of bid and during the course of finalization of the tender. Concealment of the facts shall tantamount to misrepresentation of facts and shall lead to action against such Bidders as per clause no.39 of ITB.

2.4 Bidder shall not be affiliated with a firm or entity:

- (i) that has provided consulting services related to the work to the Employer during the preparatory stages of the work or of the project of which the works/services forms a part of or
- (ii) that has been hired (proposed to be hired) by the Employer as an Engineer/Consultant for the contract.

2.5 Pursuant to qualification criteria set forth in the bidding document, the Bidder shall furnish all necessary supporting documentary evidence to establish Bidder's claim of meeting qualification criteria.

### **3.0 BIDS FROM JOINT VENTURE/CONSORTIUM**

NA

### **4.0 ONE BID PER BIDDER**

4.1 A Firm/Bidder shall submit only 'one [01] Bid' in the same Bidding Process. A Bidder who submits or participates in more than 'one [01] Bid' will cause all the proposals in which the Bidder has participated to be disqualified.

4.2 Alternative Bids shall not be considered.

### **5.0 COST OF BIDDING**

5.1 The Bidder shall bear all costs associated with the preparation and submission of the Bid including but not limited to Bank charges all courier charges including taxes & duties etc. incurred thereof. Further, CUGL will in no case, be responsible or liable for these costs, regardless of the outcome of the bidding process.

### **6.0 SITE VISIT**

6.1 The Bidder is advised to visit and examine the site of works and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the Bid and entering into a Contract for the required job. The costs of visiting the site shall be borne by the Bidder.

6.1 The Bidder or any of its personnel or agents shall be granted permission by the Employer to enter upon its premises and land for the purpose of such visits, but only upon the express conditions that the Bidder, its personnel and agents will release and indemnify the Employer and its personnel, agents from and against all liabilities in respect thereof, and will be responsible for death or injury, loss or

damage to property, and any other loss, damage, costs, and expenses incurred as a result of inspection.

- 6.3 The Bidder shall not be entitled to hold any claim against CUGL for non-compliance due to lack of any kind of pre-requisite information as it is the sole responsibility of the Bidder to obtain all the necessary information with regard to site, surrounding, working conditions, weather etc. on its own before submission of the bid.
- 

## **B BIDDING DOCUMENTS**

### **7.0 CONTENT OF BIDDING DOCUMENT**

- 7.1 The contents of bidding documents/Tender documents are those stated below and should be read in conjunction with any addenda/corrigendum issued in accordance with ITB clause no. 9.0

- Section –I : Invitation for bids (IFB)
- Section –II : Instruction to Bidders (ITB)
- Section-III : General conditions of Contract (GCC)
- Section IV : BEC ( Bid Evaluation Criteria)
- Section –V: Special Conditions of Contract (SCC)
- Section-VI: Forms & Format
- Section –VII: Technical Specification
- Section-VII: Price schedule/Schedule of Rates (SOR)

- 7.2 The bidder is expected to examine all instructions, forms, terms, specifications and drawings in the bidding documents. The Bidding Document together with all its attachment thereto, shall be considered to be read Understood and accepted by the bidder. Failure to furnish all information required by the Bid Documents or Submission of a bid not substantially responsive to the Bidding Documents in every respect will be at bidders risk and may result in the rejection of the Bid.

### **8.0 CLARIFICATION ON BID DOCUMENTS**

- 8.1 A prospective bidder requiring any clarification of the Bidding Documents may notify OWNER in writing or by fax or e-mail at the address indicated in the Invitation for Bids. OWNER will respond in writing to any request for clarification of the Bidding documents which it receives not later than 5 days prior to the deadline for the submission of bids prescribed by OWNER. Written copies of OWNER response (including an explanation of the query but without



identifying the source of the query) will be sent to all bidders to whom the bidding documents were issued. Any Clarification or information required by the bidder and not received within the stipulated time period shall be liable to be considered as no clarification/information required.

- 8.2 In case pre-bid conference is envisaged, all quotations/queries should be referred to OWNER at least 3 days before scheduled date of pre bid conference. The questions/queries received by OWNER prior to pre-bid conference will be replied in the pre-bid conference.

## **9.0 AMENDMENT OF BID DOCUMENTS**

- 9.1 At any time prior to the deadline for submission of bids, the OWNER may, for any reason, whether on its own requirement or in response to a clarification requested by prospective bidders, modify the Bidding Documents by issuing addenda/corrigendum.
- 9.2 Any addendum thus issued shall be part of the Bidding Documents and shall be notified in writing by fax/post/email to all the bidders to whom the bidding documents were issued. Prospective bidders shall promptly acknowledge receipt of each addendum by fax/post to the Owner/ Consultant and take the same in the account all such addendum before submitting their bids.
- 9.3 The OWNER/Consultant may, at its discretion, extend the date of submission of Bids in order to allow the bidders a reasonable time to furnish their most competitive bid taking into account the amendments issued.

## **C. PREPARATION OF BIDS**

### **10.0 LANGUAGE OF BID**

- 10.1 The bid prepared by the bidder, all correspondence/drawings and documents relating to the bid exchanged by the bidder with the OWNER/Consultant shall be written in English Language alone provided. Any printed literature furnished by the bidder may be written in another language so long as accompanied by an English translation duly authentication by the chamber of commerce of bidders country, in which case, for the purpose of interpretation of the bid, the English translation shall govern.
- 10.2 In the event of submission of any document/certificate by the bidder in a language other than English, the Bidder shall submit the English translation of the same duly authenticated by Chamber of Commerce of Bidder's country.

### **10.0 DOCUMENTS COMPRISING THE BID**

- 11.1 The bid prepared by the bidder shall comprise the following:

### **11.1.1 ENVELOPE-I : SUPER SCRIBING TECHNO-COMMERCIAL UN-PRICED BID (PART-1)**

**Part-I:** Techno-commercial/un-priced Bid (to be furnished in 1 original and 1 copy) and shall contain the following documents:

- a) 'Covering Letter' on Bidder's 'Letterhead' clearly specifying the enclosed contents.
- b) 'Bidder's General Information', as per 'Form F-1'.
- c) 'Bid Form', as per 'Form F-2'
- d) Copies of documents, as required in 'Form F-3'
- e) As a confirmation that the prices are quoted in requisite format complying with the requirements copy of Schedule of Rate (SOR) with prices blanked out mentioning quoted / not quoted (as applicable) written against each item.
- f) 'Letter of Authority' on the Letter Head, as per 'Form F-5'
- g) 'No Deviation Confirmation', as per 'Form F-6'
- h) 'Bidder's Declaration regarding Bankruptcy', in 'Form F-7'
- i) 'Certificate for Non-Involvement of Government of India ' from Bidder, as per 'Form F-8'
- j) 'Agreed Terms and Conditions', as per 'Form F-10'
- k) Duly attested documents in accordance with the "BID EVALUATION CRITERIA [BEC]" establishing the qualification.
- l) Undertaking on the Letter head, as per the Form F-12.
- m) Power of Attorney for authorized signatory in non-judicial stamp paper/copy of Board Resolution, the authorized signatory shall be signing the bid and any consequence resulting due to such signing shall be binding on the bidder.
- n) Any other information/details required as per Bidding Document
- o) All forms and Formats including Annexures.
- p) EMD /Bid Security
- q) Tender document duly signed by authorized signatory.
- r) All the pages of the Bid must be signed by the "Authorized Signatory" of the Bidder.

### **11.1.2 ENVELOPE-II : SUPERSCRIBING “PRICE BID – NOT TO OPEN WITH TECHNO-COMMERCIAL UN-PRICED BID”-PART-II**

#### **11.1.3 Part-II: PRICE BID**

Part-II of the BID shall be submitted in Envelope –II and shall contain Price Bid only. The Prices are to be submitted strictly in the Price Schedule/Schedule of Rate (SOR) format of the Tender Document. CUGL shall not be responsible for any failure on the part of the bidder to follow the instructions given in the Note below:

Note

- i) Bidders are advised NOT to mention Rebate/Discount separately, either in the SOR format or anywhere else in the Bid. In case Bidder(s) intend to offer any Rebate/Discount, they should include the same in the item rate(s) itself under the “Price Schedule/Schedule of Rates (SOR)” and indicate the discounted unit rate(s) only.
- ii) If any unconditional rebate has been offered in the quoted rate the same shall be considered in arriving at evaluated price. However, no cognizance shall be taken for any conditional discount for the purpose of evaluation of the Bid.
- iii) In case, it is observed that any of the Bidder(s) has/have offered suo-moto Discount/Rebate after opening of unpriced bid but before opening of price bid, such discount/rebate(s) shall not be considered for evaluation. However, in the event of the Bidder emerging as the lowest evaluated Bidder without considering the discount/rebate(s), then such discount/rebate(s) offered by the Bidder shall be considered for Award and the same will be conclusive and binding on the Bidder.
- iv) In the event as a result of techno-commercial discussions or pursuant to seeking clarifications / confirmations from Bidder, while evaluating the un-priced part of the Bid, any of the bidders offers upward revised prices; such Bidder(s) will be requested to withdraw the revised prices failing which the bid will not be considered for further evaluation. In case, any of the bidders offers discount/rebate / downward revised prices, the same shall not be considered for evaluation and their bid will be evaluated as per the original price bid. However, in the event of the Bidder emerging as the lowest evaluated Bidder without considering the discount/rebate(s), then such discount/rebate(s) offered by the Bidder shall be considered for Award and the same will be conclusive and binding on the Bidder.
- v) In case any bidder does not quote for any item(s) of “Schedule of Rates” and the estimated price impact is more than 10% of the quoted price, then the bid will be rejected. If such price impact of unquoted items is 10% or less of his quoted price, then the unquoted item(s) shall be loaded highest of the price quoted by the other bidders . If such bidder happens to be lowest evaluated bidder, price of unquoted items shall be considered as included in the quoted bid price.

#### **11.1.4 ENVELOP-III : SUPERSCRIBING “BID SECURITY” – PART-II**

Part-III: Bid Security shall contain 1 original and 1 copy of Bid Security in separate sealed envelopes.

### **12 BID PRICES**

12.1 Bidders shall indicate the following in the Price Schedule/SOR format:-

- A) Ex-works Price including packing and forwarding charges (such price to include all costs as well as duties and taxes paid or payable on components and raw materials incorporated or to be incorporated in the goods).

- B) GST (CGST & SGST/UTGST or IGST) on the finished goods including inland transportation (which will be payable on the finished goods, if this Contract is awarded.
- C) The Bidder shall indicated breakup of the quantum of imports involved for import of necessary raw materials and components giving CIF value of Import and included in bid price.
- 12.2 In case of import of raw material and components incorporated or to be incorporated in the finished goods (clause no. 12.1 (C) refers), the Bidder shall provide description of such material, quantity, rate, value, Import Duty considered etc. as per proforma provided in Price Schedule/ SOR.
- 12.3 It shall be the endeavour of the Purchase to arrange transit insurance (if applicable). For the purpose of arranging transit insurance of the goods dispatched / shipped, vendors are required to furnish the dispatch / shipping particulars to the Insurance Company giving complete details of dispatches along with Policy No. etc.
- 12.4 Prices must be filled exactly in the format for “Price Schedule/ Schedule of Rates (SOR)” enclosed as part of Tender Document. If quoted in separate typed sheets and any variation in item description, unit, quantity, any conditions of SOR etc., is noticed, the Bid is liable to be rejected.
- 12.5 The date of receipt of materials shall be considered as date of delivery. Other terms shall be interpreted as per INCOTERMS®2010 or its latest version.
- 12.6 All duties, taxes and other levies (if any) payable by the Seller under the Contract or for any other cause, except GST (CGST & SGST/UTGST or IGST) on finished product & on the incidental services, shall be included in the rates / prices and the total bid-price submitted by the Bidder. The quoted rate of GST (CGST & SGST/UTGST or IGST) on finished product & on the incidental services shall be indicated in F-10 and the bid prices. Bidders are required to quote the prices after carefully reading the provisions mentioned in tender document including SCC, GCC, Scope of work, etc.
- 12.7 Prices quoted by the Bidder, shall remain firm and fixed and valid until completion of the Contract and will not be subject to variation on any account, whatsoever.
- 12.8 The Bidder shall quote the rates in ‘figures’ & ‘words’, as per Price Schedule /SOR format provided in the Tender Document. There should not be any discrepancy between the prices indicated in figures and in words. In case of any discrepancy, the same shall be dealt as per clause no. 32 of ITB.
- 12.9 Further, Bidder shall also mention the Harmonized System Nomenclature (HSN)/ SAC (Service application code) at the designated place n Price Schedule.

### 13 TAXES & DUTIES

- 13.1 Within the contractual delivery period, the statutory variation in applicable GST (CGST & SGST/UTGST or IGST) on supply and on incidental services, shall be to CUGL's account.

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

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

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

- 13.2 In case of statutory variation(s) in the taxes & duties mentioned at clause no. 13.1 above, the Supplier shall submit a copy of the 'Government Notification' to evidence the rate as applicable on the Bid Due Date and on the date of revision. Claim for payment of Statutory variation should be raised preferably along with the Invoice. Any claim for arrears on account of statutory variation shall be submitted to Purchaser within two (02) months from the date of issue of such 'Government Notification', otherwise such claim may not be entertained.
- 13.3 With respect to clause no. 12.1 (C) and 12.2, the statutory variation in Import Duty (except component (s) for which input tax credit is avliable) on CIF value indicated, within contractual delivery period shall be to Purchaser's account against submission of the documentary evidence. However, any increase in the rate of Import Duty beyond the contractual delivery / completion period shall be to Bidder's account. In case of wrong classification, no variation including statutory variation of Import Duty will be payable to Supplier and any penalty due to the same shall be to Supplier's account. Any decrease in the rate of Import Duty shall be passed on to the Purchaser. Statutory variation on account of Import Duty will be allowed only on component for which input tax credit is not available.
- 13.4 New Taxes & duties: Any new taxes & duties, if imposed by the State/Central Govt. of India on the finished goods after the due date of bid submission but before the Contractual Delivery/Completion Date, shall be reimbursed to the Supplier on submission of copy of notification(s) issued from State/Central Govt. Authorities along with documentary evidence for proof of payment of such taxes & duties, but only after ascertaining it's applicability with respect to the Contract.
- 13.5 Deemed Export benefits are not applicable and Bidder should furnish prices without considering the same.

- 13.6 Supplier shall ensure timely submission of correct invoice(s), as per GST rules/regulation, with all required supporting document(s) without a period specified in Contract to enable CUGL to avail input credit of GST (CGST & SGST/UTGST or IGST). Further, returns and details required to be filled under GST laws & rules should be timely filed by Supplier of Goods/Services with requisite details.

If input tax credit is not available to CUGL for any reason not attributable to CUGL, then CUGL shall not be obligated or liable to pay or reimburse GST (CGST & SGST/UTGST or IGST) claimed in the invoice(s) and shall be entitled to deduct/setoff /recover such GST (CGST & SGST/UTGST or IGST) together with all penalties and interest, if any, against any amounts paid or payable by CUGL to the Suppliers.

- 13.7 The supplier shall mention the particulars of CUGL on the Invoice. Besides, if any other particulars of CUGL are required to be mentioned, under GST rules/regulations on the date of dispatch, the same shall also be mentioned on the Invoice.
- 13.8 In case CBEC (Central Board of Excise and Customs)/ any equivalent government agency brings to the notice of CUGL that the Supplier has not remitted the amount towards GST (CGST & SGST/UTGST or IGST) collected from CUGL to the government exchequer, then, that Supplier shall be put under Holiday list of CUGL for period of six months.
- 13.9 CUGL will prefer to deal with registered supplier of goods/ services under GST. Therefore, bidders are requested to get themselves registered under GST, if not registered yet.

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

- 13.10 In case the GST rating of vendor on the GST portal / Govt. Official website is negative / black listed, then the bids may be rejected by CUGL. Further, in case rating of bidder is negative / black listed, after award of work for supply of goods / services, then CUGL shall not be obligated or liable to pay or reimburse **GST (CGST & SGST/UTGST or IGST)** to such vendor and shall also be entitled to deduct / recover such **GST (CGST & SGST/UTGST or IGST)** along with all penalties/ interest, if any, incurred by CUGL.
- 13.11 **Anti-profiteering clause**  
As per Clause 171 of GST Act, it is mandatory to pass on the benefit due to reduction in rate of tax or from input tax credit to the consumer by way of commensurate reduction in prices. The Service Provider may not do the above and quote their prices accordingly.

## **14.0 BID CURRENCY**

Bidders must submit bid in Indian Rupees only.

## **15.0 BID VALIDITY**

- 15.1 The bid shall remain valid for acceptance for 4 (four) months from the bid due date. Owner/Employer shall reject a bid valid for a shorter period for being non-responsive.
- 15.2 In exceptional circumstance, prior to expiry of the original bid validity period, the Owner/Employer may request the bidders extend the period of validity for a specified additional period. The requests and the Responses thereto shall be made in writing (by fax/ post / e-mail). A bidder may refuse the request without forfeiture of its bid security. A bidder agreeing to the request will not be required or permitted to modify his bid, but will be required to extend the validity of its bid security for the period of the extension and in accordance with ITB clause in all respects.

## **16.0 EARNEST MONEY**

- 16.1 Bids must be accompanied with '**Earnest Money / Bid Security**' in the form of '**Demand Draft**' [in favor of Central UP Gas Limited, payable at Kanpur] or '**Banker's Cheque**' or '**Bank Guarantee**' **as per the format given in Form -4 of the bidding documents**. Bidders shall ensure that 'Bid Security', having a validity of at least 'two [02] months' beyond the validity of the bid, must accompany the Bid in the format(s) made available in the Bidding Document. Bid not accompanied with 'Bid Security', or 'Bid Security' not in requisite form shall be liable for rejection. The Bid Security shall be submitted in Indian Rupees only.

In case Bidders registered with NSIC or District Industries Center (DIC) as small/Micro Category Enterprises are exempted from submission of EMD. The above exemption is not extended to the traders/dealers/Distributors/stockiest /wholesalers.

The documentary evidence/certificate in support of being registered with NSIC/DIC submitted by the bidder shall be duly certified by the statutory auditor of the bidder or a practicing Chartered Accountant (not being an employee or a director or not having any interest in the bidder's company/firm). The certificate should not older than 3 months from the bid due date and should indicate the Name of bidder, NSIC/DIC registration Number, Category of Enterprises, CA firm name, CA name and CA membership Number who is issuing the certificate.

Bidders can also submit MSME certificate for MSEs (Micro & Small Enterprises) for exemption from submission of EMD in accordance with the MSME act. This exemption is not extended to the traders/dealers/Distributors/stockiest /wholesalers.

- 16.2 The 'Bid Security' is required to protect CUGL against the risk of Bidder's conduct, which would warrant the 'Bid Security's' forfeiture, pursuant to provision of ITB.

- 16.3 CUGL shall not be liable to pay any Bank charges, commission or interest etc. on the amount of 'Bid Security'. In case 'Bid Security' is in the form of a 'Bank Guarantee', the same shall be from any Indian scheduled Bank or a branch of an International Bank situated in India and registered with 'Reserve Bank of India' as Scheduled Foreign Bank. However, in case of 'Bank Guarantee' from Banks other than the Nationalized Indian Banks, the Bank must be commercial Bank having net worth in excess of Rs. 100 Crores [Rupees One Hundred Crores] and a declaration to this effect should be made by such commercial Bank either in the 'Bank Guarantee' itself or separately on its letterhead. 'Earnest Money / Bid Security' shall be valid for 'two [02] months' beyond the 'Bid Validity Period'
- 16.4 Any Bid not secured in accordance with "ITB Clause 16.1 & 16.3" may be rejected by CUGL as non-responsive.
- 16.5 Unsuccessful Bidder's 'Earnest Money / Bid Security' will be discharged/ returned as promptly as possible, but not later than 'thirty [30] days' after finalization of tender.
- 16.6 The successful Bidder's 'Bid Security' will be discharged upon the Bidder's acknowledging the 'Award' and signing the 'Agreement' and furnishing the 'Contract Performance Security / Security Deposit' as per the provisions of tender document.
- 16.7 Notwithstanding anything contained herein, the 'Bid Security' may also be forfeited in any of the following cases:
- (a) If a Bidder withdraws his Bid during the 'Period of Bid Validity'
  - (b) If a Bidder has indulged in corrupt/fraudulent /collusive/coercive practice
  - (c) If the Bidder modifies bids during the period of bid validity (after submission date).
  - (d) Violates any other condition, mentioned elsewhere in the tender document, which may lead to forfeiture of EMD.
  - (e) In the case of a successful Bidder, if the Bidder fails to:
    - (i) to acknowledge receipt the "Notification of Award" / "Fax of Intent [FOI]/ Fax of Acceptance[FOA]",
    - (ii) to furnish "Contract Performance Security / Security Deposit"
    - (iii) to accept 'arithmetical corrections' as per provision of ITB.
- 16.8 Bid Security should be in favor of Central UP Gas Limited and addressed to CUGL. In case Bid Security is in the form of 'Bank Guarantee' or 'Letter of Credit', the same must indicate the Bid Document No. and the Work for which the Bidder is quoting. This is essential to have proper correlation at a later date. The 'Bid Security' should be in the form provided in tender document.

## **17.0 PRE-BID MEETING**

- 17.1 As per IFB.



## **18.0 FORMAT AND SIGNING OF BID**

- 18.1 The bidder shall prepare one original of the document comprising the bid as per clause 11 of ITB marked “original” in addition, the bidder shall submit 1 copy of the bid clearly marked as “Copy”. In the event of any discrepancy between the original and the copy, the original will govern.
- 18.2 The original and all copies of the bid shall be typed or written in indelible ink (in the case of copies, photocopies are also acceptable) and shall be signed by the person or persons duly authorized to sign on behalf of the bidder.
- 18.3 The name and position held by each person signing must be typed or printed below the signature. All pages of the bid except any catalogues/literatures shall be signed and sealed by the person or persons signing the bid.
- 18.4 The bid shall contain no alterations, omissions or additions, unless the person or persons signing the bid initial such corrections.

## **19 ZERO DEVIATION AND REJECTION CRITERIA**

19.1 **ZERO DEVIATION:** Deviation to terms and conditions of "Bidding Documents" may lead to rejection of bid. CUGL will accept bids based on terms & conditions of "Bidding Documents" only. Bidder may note CUGL will determine the substantial responsiveness of each bid to the Bidding Documents pursuant to provision contained in clause 30 of ITB. For purpose of this, a substantially responsive bid is one which conforms to all terms and conditions of the Bidding Documents without deviations or reservations. CUGL's determination of a bid's responsiveness is based on the content of the bid itself without recourse to extrinsic evidence. CUGL reserves the right to raise technical and/or commercial query(s), if required, may be raised on the bidder(s). The response(s) to the same shall be in writing, and no change in the price(s) or substance of the bids shall be sought, offered or permitted. The substance of the bid includes but not limited to prices, completion, scope, technical specifications, etc. Bidders are requested to not to take any deviation/exception to the terms and conditions laid down in this "Tender Documents", and submit all requisite documents as mentioned in this "Tender Documents", failing which their offer will be liable for rejection. If a bidder does not reply to the queries in the permitted time frame then its bid shall be evaluated based on the documents available in the bid.

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

- (a) BEC
- (b) Scope of work
- (c) Firm Price
- (d) Earnest Money Deposit / Bid Security (exempted for SME enterprises as clause no. 16.1)

- (e) Specifications & Scope of Work
- (f) Schedule of Rates / Price Schedule / Price Basis
- (g) Duration / Period of Contract/ Completion schedule
- (h) Period of Validity of Bid
- (i) Price Reduction Schedule
- (j) Contract Performance Bank Guarantee / Security Deposit
- (k) Guarantee / Defect Liability Period
- (l) Arbitration / Resolution of Dispute/Jurisdiction of Court
- (m) Force Majeure& Applicable Laws
- (n) Not submitting an undertaking that the bidder is not Holiday/ Blacklisted by CUGL or any other Govt. Dept./PSUs.
- (o) Any other condition specifically mentioned in the tender document elsewhere that non-compliance of the clause lead to rejection of bid

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

## **20.0 E-PAYMENTS**

NA

## **21.0 AGENT / CONSULTANT / REPRESENTATIVE / RETAINERS / ASSOCIATES**

21.0 NA

### **D. SUBMISSION OF BIDS**

## **22.0 SEALING AND MARKING OF BIDS**

22.1 Bid shall be submitted in the following manner in separate sealed envelopes duly super scribed as below as per clause no. 11 of ITB:

**Part-I –Techno-commercial /un-priced bid**

**Part-II Priced Bid**

**Part III-Original Bid Security**

**22.2 Techno-Commercial Un-Priced :** (Part-I) Original Bid of Techno - Commercial un-priced Bid (1 Original + 1 Copy) shall be sealed in one separate envelope super scribing “Techno-Commercial Un-Priced Bid”.

**22.3 Price Bid :** (Part II) Original Priced Bid (1 Original + 1 Copy) shall be sealed in separate envelope super scribing “Priced Bid” (1 Original + 1 Copy ) “Not to open along with Techno –Commercial Un-Priced Bid”.

**22.4 Bid Security:** (Part III) Original and 1 copy shall be sealed in separate envelope clearly super scribing “Bid Security” as the case may be.

22.5 All three envelopes containing; Techno-Commercial un-priced Bids, Priced Bids and Bid security shall further be sealed in one outer envelope super scribing “ Bid Document for the Procurement of Commercial Meters with Integrated AMR for City Gas Projects” bid document number and shall be addressed to Sr. Manager (C&P) at address mentioned below.

22.6 Bids must be submitted at the following Address:

The Sr. Manager (C&P)  
CUGL, 7th Floor UPSIDC Complex,  
Lakhanpur, Kanpur-208024  
Phone NO.0512-2582455  
Email: [kkgupta@cugl.co.in](mailto:kkgupta@cugl.co.in) / [sbhatia@cugl.co.in](mailto:sbhatia@cugl.co.in)

22.7 Each envelope shall indicate name and address of the bidder to enable the bid to be returned unopened, if required.

22.8 If the outer envelope is not sealed and marked as above, the Employer/Consultant will assume no responsibility for the misplacement or premature opening of the bid.

### **23.0 DEADLINE FOR SUBMISSION OF BID**

23.1 The Bid must be submitted at the address as specified in clause 22.6 above not later than the time and date as specified in Section-I, IFB.

23.2 The Employer may, in exceptional circumstances and at its discretion,, on giving reasonable notice by fax or any written communication to all prospective bidders who have been issued the bidding document, extend the deadline for the submission of bids. In which case all rights and obligations of the Employer and bidders, previously subject to the original deadline will thereafter be subject to deadline as extended.

23.4 In case any bid is submitted by bidder who is on Holiday’ by CUGL or banned/blacklisted by Government department/ Public Sector on due date of submission of bid, such bid will not be opened /evaluated and such bids shall be returned to the party immediately

23.5 In case of the days specified in IFB happens to be a holiday in CUGL, the next working day shall be implied.

### **24.0 LATE BIDS**

24.1 Any bid received by the owner after the deadline for submission of bid prescribed by the Owner pursuant to clause 23 of ITB, will be declared “Late” & Rejected and shall be returned unopened to the bidder.

### **25.0 MODIFICATION AND WITHDRAWL OF BIDS**

- 25.1 The bidder may modify or withdraw its bid after the bid submission, but, before the due date of submission provided that written notice of the modification, including substitution or Withdrawal of the bid, is received by the Employer prior to the deadline prescribed for submission of bids.
- 25.2 The bidder's modification or withdrawal note shall be prepared, sealed, marked and delivered in accordance with the provisions of clause 22 of ITB with the outer envelopes additionally marked "modification" or withdrawal as appropriate. A withdrawal notice may also be sent by fax /post, but followed by signed confirmation copy, post marked not later than the deadline for submission of bids.
- 25.3 No bid shall be modified/withdrawn after the deadline for submission of bid.
- 25.4 No bid shall be allowed to be withdrawn/modified in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the bidder on the bid form, Withdrawal/ modification of a bid during this interval shall result in the bidders forfeiture of its bid security, pursuant to clause 15 of ITB.
- 25.5 The latest bid hence submitted shall be considered for evaluation and all other bids shall be considered unconditionally withdrawn.

## **26.0 OWNER/EMPLOYER'S RIGHT TO ACCEPT ANY BID AND TO REJECT ANY OR ALL BIDS**

The Owner/Employer reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to award of the contract without thereby incurring any liability to the affected bidder or bidder or any obligations to inform the affected bidder or bidders of the ground for Owner/Employer action.

## **D. BID OPENING AND EVALUATION**

### **27.0 BID OPENING**

#### **27.1 *Unpriced Bid Opening :***

CUGL will open bids, in the presence of bidders' designated representatives who choose to attend, at date, time and location stipulated in the tender document. The bidders' representatives, who are present shall sign a bid opening register evidencing their attendance.

#### **27.2 *Priced Bid Opening:***

CUGL will open the price bids of those bidders who meet the qualification requirement and whose bids is determined to be technically and commercially responsive. Bidders selected for opening of their price bids shall be informed about the date of price bid opening. Bidders may depute their authorized representative to attend the bid opening. The bidders' representatives, who are present shall sign

a register evidencing their attendance and may be required to be present on a short notice.

- 27.3 The price bids of those bidders who were not found to be techno-commercially responsive shall be unopened and returned unopened after opening of the price bids of techno-commercially responsive bidders.

## **28.0 PROCESS TO BE CONFIDENTIAL**

- 28.1 Information relating to the examination, clarifications, evaluation and comparison of bids, and recommendations for the award of a Contract, shall not be disclosed to bidders or any other person officially concerned with such Process.
- 28.2 Any efforts by a bidder to influence the Owner/Employer in any manner in respect of Preparation of Bidding document & further evaluation of bids will result in the rejection of that bid.

## **29.0 CONTACTING THE OWNER/EMPLOYER**

- 29.1 From the time of the bid opening to the time of the Contract award, if any bidder wishes to contact the Owner/Employer for any matter relating to the bid, it should do so in writing. Any effort by a bidder to influence the Owner/Employer in any manner in respect of bid evaluation or award will result in the rejection of that bid.

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

- 30.1 The owner's determination of a bid's responsiveness is based on the content of the bid only. Prior to the detailed evaluation of Bids, the Employer will determine whether each Bid:-
- (a) Meets the "Bid Evaluation Criteria" of the Bidding Documents;
  - (b) Has been properly signed;
  - (c) Is accompanied by the required 'Earnest Money / Bid Security';
  - (d) Is substantially responsive to the requirements of the Bidding Documents;
- and
- (e) Provides any clarification and/or substantiation that the Employer may require to determine responsiveness pursuant to "ITB: Clause-28.2"
- 30.2 A substantially responsive Bid is one which conforms to all the terms, conditions and specifications of the Bidding Documents without material deviations or reservations or omissions for this purpose employer defines the foregoing terms below:-
- a) "Deviation" is departure from the requirement specified in the tender documents.
  - b) "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirement in the tender documents.

- c) “Omission” is the failure to submit part or all of the information or documentation required in the tender document.

30.3 A material deviation, reservation or omission is one that,

- a) If accepted would,
  - i) Affect in any substantial way the scope, quality, or performance of the job as specified in tender documents.
  - ii) Limit, in any substantial way, inconsistent with the Tender Document, the Employer’s rights or the tenderer’s obligations under the proposed Contract.
- b) If rectified, would unfairly affect the competitive position of other bidders presenting substantially responsive bids.

30.4 The employer shall examine all aspects of the bid to confirm that all requirements have been met without any material deviation reservation or omission.

30.5 If a Bid is not substantially responsive, it may be rejected by the Employer and may not subsequently be made responsive by correction or withdrawal of the of material deviation, reservation or omission.

30.6 CUGL reserves the right to seek any clarification from the bidder, if required on the submitted document for evaluating their bid, the same shall be asked.

### **31.0 PRICE BID OPENING**

The Owner/Employer will open priced bids of all techno-commercially acceptable bidders.

### **32.0 ARITHMETIC CORRECTIONS & CORRECTION OF ERRORS**

32.1 Bids determined to be substantially responsive will be checked by the Employer for any arithmetic errors. Errors will be corrected by the Employer as follows:

- (i) When there is a difference between the rates in figures and words, the rate which corresponds to the amount worked out by the contractor (by multiplying the quantity and rate) shall be taken as correct.
- (ii) When the rate quoted by the contractor in figures and words tallies but the amount is incorrect, the rate quoted by the contractor shall be taken as correct and not the amount and the amount corrected.
- (iii) When it is not possible to ascertain the correct rate, in the manner prescribed above, the rate as quoted in words shall be adopted and the amount worked out, for comparison purposes

32.2 The amount stated in the bid will be adjusted by the Employer in accordance with the above procedure for the correction of errors. If the bidder does not accept the

corrected amount of bid, its bid will be rejected, and the bid security shall be forfeited.

### **33.0 CONVERSION TO SINGLE CURRENCY**

All bids to submitted in INR.

### **34.0 EVALUATION AND COMPARISON OF BIDS**

34.1 The evaluation & comparisons of the bids will be carried out for previously determined as substantially responsive pursuant to ITB Cl. No.28.

34.2 The evaluation & Comparison of all the responsive bids for supplies/works/services to be arrived at the lowest evaluated offer as Under (i) the evaluated price of bidders shall include the following:

- I. Total price quoted by the bidder (including Taxes & duties).
- II. Technical loading if any as per Technical specification.

34.3 In case more than one bidder is tied up at one position based on evaluated price, then lowest cost bidder shall be shortlisted using following tie breaker criteria in the order of sequence (i.e. criteria no. 2 will be applied only in case there is still a tie after criteria no.1):

Criteria No. 1 - The bidders who have got the higher turnover in any of the last 03 (three) Financial Year.

Criteria No. 2- The bidders who have got the higher working capital (without taking into consideration of letter of credit submitted from bank) in the last Financial Year.

34.4 In case it is observed that any bidder has not quoted for any item in the Schedule of Rates (such unquoted item not being in large numbers), the quoted price for the purpose of evaluation shall be considered as the maximum rate quoted by the remaining bidders for such items. If after evaluation, such bidder is found to be the lowest evaluated bidder, the rates for the missing item shall be considered as included in quoted bid price. If the estimated price impact of the unquoted items is more that 10% of the bidder's quoted price, the above provision shall not be applicable and such bid shall be rejected

### **34.0 POST QUALIFICATION**

35.1 In the absence of prequalification, the Owner/Employer will determine to its satisfaction whether the bidder selected as having submitted the lowest evaluated, responsive bid is qualified to satisfactorily perform the contract.

35.2 The determination will take into account the bidders financial, technical and production capabilities. It will be based upon an examination of the documentary evidence of the bidders qualifications submitted by the Bidder, pursuant to ITB Clause-

10, as well as such other information as the Owner/Employer deems necessary and appropriate.

An affirmative determination will be a prerequisite for award of the contract to the bidder. A Negative determination will result in rejection of the bidders bid.

## **F - AWARD OF CONTRACT**

### **36.0 AWARD**

36.1 The Owner/Employer will award the contract to the successful bidder (s) whose bid has been determined to be Substantially responsive and/or have been determined as a lowest on least cost to Owner/Employer and is determined to be qualified to satisfactorily perform the Contract.

### **37.0 NOTIFICATION OF AWARD/FAX OF ACCEPTANCE**

37.1 Prior to the expiration of period of bid validity, Owner/Employer (CUGL) will notify the successful bidder in writing by Post/Fax/E-mail to be confirmed in writing, that his bid has been accepted. The notification of award/Fax of Intent will constitute the formation of the Contract.

37.2 The Completion period shall commence from the date of notification of award/Fax of Acceptance (FOA).

37.3 The notification of award will constitute the formation of a Contract.

37.4 Upon the successful bidder's/ Contractor's CPBG/SD shall promptly discharge his EMD.

### **38.0 SIGNING OF AGREEMENT**

38.1 After the successful bidder has been notified for acceptance of his bid, the bidder is required to execute the Contract Agreement within 21 days of receipt of Fax of Acceptance in the form provided in the Bidding Documents. The Contract Agreement is to be executed on the non-judicial paper of appropriate value (the cost of stamp paper shall be borne by the Contractor/Service Provider).

38.2 In the event of failure on the part of the successful bidder to sign the AGREEMENT within the above stipulated period, the Bid Security shall be forfeited and the acceptance of the award shall be considered as cancelled.

### **39.0 PERFORMANCE GUARANTEE**

39.1 Pursuant to clause no. 12 of GCC- works, bidder will provide performance Guarantee of appropriate value within 21 days of receipt of award from the Owner/Employer. The Performance Guarantee shall be in form of Bank Guarantee and shall be in the currency of the Contract.



- 39.2 Failure of the successful bidder to comply with the requirement of this clause shall constitute a breach of contract, cause for annulment of the award, forfeiture of the bid security and any such remedy the Employer may take under the Contract pursuant to Clause as per tender and the Owner/Employer may resort to awarding the Contract to the next ranked bidder.

#### **40.0 Repeat Order**

- 40.1 As per GCC

#### **41.0 CORRUPT AND FRAUDULENT PRACTICES**

- 41.1 The Owner/Employer requires that Bidders/contractors observe the highest standard of ethics during the execution of Contract. In pursuance of this policy, the Employer defines, for the purposes of this provision, the terms set forth below as follows:

a) "Corrupt Practice" means the offering, giving, receiving, or soliciting of anything of value to influence the action of public official in contract execution, and

b) "Fraudulent Practice" means a misrepresentation of facts in order to secure the contract or influence the execution of a Contract to the detriment of the Employer, and includes collusive practice among bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Employer of the benefits of free and open competition; The Employer will reject a proposal for award if it determines that the bidder recommended for award has engaged corrupt or fraudulent practices in competing for the Contract in question.

- 41.2 The Owner/Employer will declare a firm ineligible for a period pursuant to clause as per tender.

#### **42.0 INCOME TAX & CORPORATE TAX**

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

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

#### **43.0 WAIVER OR TRANSFER OF THE AGREEMENT**

- 43.1 The successful bidder shall not waive the Agreement or transfer it to third parties, whether in part or in whole, nor waive any interest that is included in the Agreement without the prior written permission of the Owner/Employer.

#### **44.0 EVALUATION OF PERFORMANCE**

Performance of the contract awarded shall be evaluated as per vendors evaluation policy of CUGL which is available on CUGL website.

**GCC  
(GENERAL  
CONDITIONS OF  
CONTRACT)**

**SECTION-III**

## **General conditions of Contract**

### **Section-1      Definitions**

#### **1.0 Definitions**

In this document, General Conditions of Contract (GCC-Goods), the following terms shall have the following respective meanings:

- 1.0 Bidder: Designates the individual or legal entity which has made a proposal, a tender or a bid with the aim of concluding a contract with the purchaser.
- 1.1 **CONSULTANT:** - NA
- 1.2 **CONTRACT** shall mean purchase order/contract and all attached exhibits and documents referred to therein and all terms and conditions thereof together with any subsequent modifications thereto.
- 1.3 **CONTRACT PRICE** shall mean the price payable to the seller under the contract for the full any proper performance of his contractual obligations.
- 1.4 **COMPLETION DATE** shall mean the date on which the goods are successfully commissioned by the supplier and handed over to OWNER.
- 1.5 **COMMERCIAL OPERATION** shall mean the condition of the operation in which the complete equipment covered under the contract is officially declared by the OWNER to be available for continuous operation at different loads up to and including rated capacity.
- 1.6 **DELIVERY** terms shall be interpreted as per INCO TERMS 2000 in case of contract with a foreign bidder and as the date of LR/GR in the case of a contract with an Indian bidder.
- 1.7 **DRAWINGS** shall mean and include Engineering drawings, sketches showing plans, sections and elevations in relation to the contract together with modifications and/or revisions thereto.
- 1.8 **ENGINEER** or Engineer-in-charge of the Project SITE shall mean the person designated from time to time by PURCHASER AT SITE AND SHALL INCLUDE those who are expressly authorized by him to act for and on his behalf for operation of this CONTRACT.

- 1.9** FINAL ACCEPTANCE shall mean the Purchaser's written acceptance of the work performed under the contract after successful completion of performance and guarantee test.
- 1.10** GOODS shall mean articles, materials, equipment, design and drawings, data and other property to be supplied by seller to complete the contract.
- 1.11** INSPECTOR shall mean any person or outside Agency nominated by OWNER directly or through CONSULTANT to inspect equipment, stage-wise as well as final, before dispatch, at SUPPLIER'S works and on receipt at SITE as per terms of the CONTRACT.
- 1.12** INITIAL OPERATION shall mean the first integral operation of the complete equipment covered under the Contract with sub-systems and supporting equipment in service of available for service.
- 1.13** OWNER shall mean Central UP Gas Limited (CUGL), having its registered office at 7<sup>th</sup> Floor, UPSIDC Complex, A-1/4, Lakhanpur, Kanpur -208024, UP, India. The term OWNER includes successors, assigns of CUGL
- 1.14** PERFORMANCE AND GUARANTEE TESTS shall mean all operational checks and tests required to determine and demonstrate capacity, efficiency and operating characteristics as specified in the CONTRACT documents.  
Project DESIGNATES THE AGGREGATE OF THE Goods and/or Services to be provided by one or more Contractors.

#### Quantities – Bills of quantities

##### Bills of quantities

Designate the quantity calculations to be taken into account when these calculations are made from detailed or construction drawings, or from work actually performed, and presented according to a jointly agreed breakdown of the Goods and/or Services.

- 1.15** SUPPLIER shall mean the person, firm or company with whom PURCHASE ORDER /CONTRACT is placed/entered into by SUPPLIER for supply of equipment, materials and services. The term Seller includes its successor and assigns.
- 1.16** SERCIVE shall mean erection, installation, and testing commissioning, provision of technical assistance, training and other such obligations of the Supplier covered under the Contract.
- 1.17** SITE designates the land and/or any other premises on, under, in or across which the goods and/or Services have to be supplied, erected, assembled, adjusted, arranged and/or commissioned.

- 1.18** SPECIFICATIONS shall mean and include schedules, details, description, statement of technical data, performance characteristics, standards (Indian as well as International) as applicable and specified in the Contract.
- 1.19** SUB-CONTRACTOR shall mean order placed by the Supplier, for any portion of the contracted work, after necessary consent and approval of OWNER.
- 1.20** SUB-CONTRACTOR shall mean the person named in the CONTRACT for any part of the work or any person to whom any part of the CONTRACT has been sub-let by the SUPPLIER with the consent in writing of the OWNER and will include the legal representatives, successors, and permitted assigns of such person.
- 1.21** START-UP shall mean the time period required to bring the equipments covered under the Contract from an inactive condition, when construction is essentially complete to the state of readiness for trial operation. The start-up period shall include preliminary inspection and check out of equipment and supporting sub-systems, initial operation of the complete equipments covered under the Contract obtain necessary trial operation date, perform calibration and corrective action, shutdown inspection adjustment prior to the trial operation period.
- 1.22** TESTS shall mean such process or processes to be carried out by the Seller as are prescribed in the Contract or considered necessary by OWNER or his representative in order to ascertain quality, workmanship, performance and efficiency of equipment or part thereof.
- 1.23** TESTS ON COMPLETION shall mean such tests as prescribed in the Contract to be performed by the Supplier before the Works are taken

**2.0 Seller to inform** 2.1 The Supplier shall be deemed to have carefully examined all contract documents to his entire satisfaction. Any lack of information shall not in any way relieve the Supplier of his responsibility to fulfill his obligation under the Contract.

**3.0 Application** 3.1 These General Condition of Contract (GCC-Goods) shall apply to the extent that they are not superseded by provisions of other parts of the Contract.

**4.0 Country of Origin** 4.1 For purposes of this Clause "origin" means the place where the **Origin** Goods were mined, grown or produced, or from which the services are supplied. Goods are produced when, through manufacturing, processing or substantial and major assembling of components, a

commercially recognized new product results that is substantially different in basic characteristics or in purpose or utility from its components.

**5.0 Scope of Contract**

- 5.1** Scope of the CONTRACT shall be as defined in the PURCHASE ORDER/CONTRACT specifications, drawings and Annexure thereto.
- 5.2** Completeness of the EQUIPMENT shall be the responsibility of him SUPPLIER. Any equipment, fittings and accessories which may not be specifically mentioned in the specifications or drawings, but which are usual or necessary for the satisfactory functioning of the equipment (successful operation and functioning of the equipment being SUPPLIER's responsibility) shall be provided by SUPPLIER without any extra cost.
- 5.3** The SUPPLIER shall follow the best modern practices in the manufacture of high grade EQUIPMENT notwithstanding any omission in the specifications. The true intent and meaning of these documents is that SUPPLIER shall in all respects, design, engineer, manufacture and supply the equipment in a thorough workmanlike manner and supply the same in prescribed time to the entire satisfaction of OWNER.
- 5.4** The SUPPLIER shall furnish twelve (12) copies in English language of Technical documents, final drawings, preservation instructions, operation and maintenance manuals, test certificates, spare parts catalogues for all equipments to the OWNER.
- 5.5** The documents once submitted by the SUPPLIER shall be firm and final and not subject to subsequent changes. The SUPPLIER shall be responsible for any loss to the OWNER consequent to furnishing of incorrect data/drawings.
- 5.6** All dimensions and weight should be in metric system
- 5.7** All equipment to be supplied and work to be carried out under the CONTRACT shall conform to and comply with the provisions of relevant regulations/Acts (State Government or Central Govt.) as may be applicable to the type of equipment/work carried out and necessary certificates shall be furnished.
- 5.8** The seller shall provide cross sectional drawings, wherever applicable, to identify the spare part numbers and their location. The size of bearings, their make and number shall be furnished.

**5.9** Specifications, design and drawings issued to the seller along with RFQ and CONTRACT are not sold or given but loaned. These remain property of OWNER OR ITS ASSIGNS AND ARE SUBJECT TO RECALL BY OWNER. The supplier and his employees shall not make use of the drawings, specifications and technical information for any purpose at any time except for manufacture against the CONTRACT and shall not disclose the same to any person, firm or corporate body, without written permission of OWNER All such details shall be kept confidential.

**5.10** SUPPLIER shall pack, protect, mark and arrange for dispatch of EQUIPMENT as per instructions given in the CONTRACT.

## **6.0 Standards**

**6.1** The goods supplied under the CONTRACT shall conform to the standards mentioned in the Technical Specifications, or such other standards which ensure equal or higher quality, and when no applicable standard is mentioned, to the authoritative standard appropriate to the GOODS country of origin and such standards shall be the latest issued by the concerned institution.

## **7.0 Instructions, Direction & Correspondence**

**7.1** The materials described in the CONTRACT are to be supplied according to the standards, data sheets, tables, specifications and drawings attached thereto and/or enclosed with the CONTRACT, itself and according to all conditions, both general and specific enclosed with the contract, unless any or all of them have been modified or cancelled in writing as a whole or in part.

- a.** All instructions and orders to SUPPLIER shall, excepting what is herein provided, be given by OWNER.
- b.** All the work shall be carried out under the direction of and to the satisfaction of purchaser.
- c.** All communications including technical/commercial clarifications and / or comments shall be addressed to CUGL in quintuplicate and shall always bear reference to the CONTRACT.
- d.** Invoices for payment against CONTRACT shall be addressed to OWNER.
- e.** The CONTRACT number shall be shown on all invoices, communications, packing lists, containers and bills of lading, etc.

## **8.0 Contract Obligation 8.1**

If after award of the contract, the Supplier does not acknowledge the receipt of award or fails to furnish the

performance guarantee within the prescribed time limit, the OWNER reserves the right to cancel the contract and apply all remedies available to him under the terms and conditions of this contract

- 8.2** Once a contract is confirmed and signed, the terms and conditions contained therein shall take precedence over the Supplier's bid and all previous correspondence.

**9.0 Modification in** **9.1** All modifications leading to changes in the contract with respect to Contract technical and / or commercial aspects including terms of delivery shall be considered valid only when accepted in writing by OWNER BY ISSUING AMENDMENT TO THE contract. Issuance of acceptance or otherwise in such cases shall not be any ground for extension of agreed delivery date and also shall not affect the performance of contract in any manner except to the extent mutually agreed through a modification of contract.

- 9.2** OWNER shall not be bound by any printed conditions or provisions in the Supplier's Bid Forms OR ACKNOWLEDGEMENT OF contract, invoices, packing list and other documents which purport to impose any conditions at variance with or supplemental to contract.

**10. Use of Contract document & Information** **10.1** The supplier shall not, without the owner's prior written consent, disclose the CONTRACT or any provision thereof, or any specification, plan, drawing, pattern, sample or information furnished by or on behalf of the OWNER in connection therewith, to any person other than a person employed by the SUPPLIER in the performance of the CONTRACT. Disclosure to any such employed person shall be made in confidence and shall extend only as far as may be necessary for purpose of such performance.

- 10.2** The SUPPLIER shall not, without the OWNER's prior written consent, make use of any document or information enumerated in Article 10.1 except for purpose of performing the CONTRACT.

**11.0 Patent Rights Liability & Regulations** **11.1** SUPPLIER hereby warrants that the use or sale of the materials delivered hereunder will not infringe claims of any patent covering such material Compliance and SUPPLIER agrees to be responsible for and to defend at his sole expense. all suits and proceeding against OWNER based on any such alleged patent infringement and to pay<sup>6</sup> all costs , expenses and damages which OWNER and/ or Consultants may have to pay or incur by reason of any such suit or proceedings.

- 11.2** The SUPPLIER shall indemnify the OWNER against all third party claims of infringement of patent, trademark or industrial design rights arising from use of the GOODS or any part thereof in the OWNER's country.



- 11.3** SUPPLIER shall be responsible for compliance with all requirements under the laws and shall protect and indemnify completely the OWNER from any claims/penalties arising out of any infringements.
- 11.4** SUPPLIER shall be responsible for compliance with all requirements under the laws and shall protect and indemnify completely the OWNER from any claims/penalties arising out of any infringements.

**12. Performance Guarantee 12.1** Within 21 days after the Seller's receipt of notification of award of the CONTRACT, the **SUPPLIER** shall furnish performance guarantee in the form of Bank Guarantee/Demand Draft/ Banker cheque to the OWNER, in the bidding documents, for an amount equivalent to 3% of the total order value (exclusive of GST) of the CONTRACT & 7% of individual delivery orders (if the contract value is more than Rs. 5 Lacs).

1) Validity of PBG for 3% = ARC Period (start date to end date+90 days)

2) Validity of PBG for 7% (effective immediately for 1<sup>st</sup> Lot of materials from the date of award/first notification) for 05 years from the date of LOI .

3) Validity of PBG for 7% for subsequent DO/Lot for 05 years from the date of DO's.

**12.2** The proceeds of performance guarantee shall be appropriated by the OWNER as compensation for any loss resulting from the **Supplier's** failure to complete his obligations under the CONTRACT without prejudice to any of the rights or remedies the OWNER may be entitled to as per terms and conditions of CONTRACT. The proceeds of this performance guarantee shall also govern the successful performance of goods and services during the entire period of contractual warrantee/Guarantee.

**12.3** The performance guarantee shall be denominated in the currency of the CONTRACT.

**12.4** The Performance Guarantee shall be valid for the duration of 90 days beyond the expiry of Warrantee/Guarantee period. OWNER will discharge the Bank Guarantee not later than 6 months from the date of Expiration of the Supplier's entire obligations, including any warrantee obligations, under the CONTRACT.

**13.0 Inspection, and/Testing &Expediting 13.1** The OWNER or its representative shall have the right to inspect or to test the GOODS to confirm their conformity to the contract specifications. The special conditions of contract and /or the Technical Specifications shall specify what inspections and tests the OWNER requires and where they are to be conducted. The OWNER shall notify the SUPPLIER in writing the identity of any representative(s) retained for these purposes.

- 13.2** The inspection and tests may be conducted on the premises of the SUPPLIER or his sub-contractor(s), at point of DELIVERY and/ or at the GOODS final destination, When conducted on the premises of the SUPPLIER or his sub-contractor(s), all reasonable facilities and assistance including access to the drawings and production data shall be furnished to the inspectors at no charge to the OWNER.
- 13.3** Should any inspected or tested GOODS fail to conform to the specifications, the OWNER may reject them and the SUPPLIER shall either replace the rejected GOODS or make all alterations necessary to meet specifications requirements, free of cost to the OWNER.
- 13.4** The Owner's right to inspect, test and where necessary reject the GOODS after the GOODS arrival in the Owner's country shall in no way be limited or waived by reason of the GOODS having previously been inspected, tested and passed by the OWNER, or their representative prior to the GOODS shipment from the country of origin.
- 13.5** The INSPECTOR shall follow the progress of the manufacture of the GOODS under the CONTRACT to ensure that the requirements outlined in the CONTRACT are not being deviated with respect to schedule and quality.
- 13.6** Supplier shall allow to visit, during working hours, the workshop relevant for execution of the CONTRACT during the entire period of CONTRACT during the entire period of CONTRACT validity.
- 13.7** In order to enable OWNER'S representatives to obtain entry visas in time, SUPPLIER shall notify OWNER two months before assembly, testing and packing of main EQUIPMENT. If requested, seller shall assist OWNER representatives in getting visas in the shortest possible time (applicable only in case of foreign order).
- 13.8** SUPPLIER shall place at the disposal of the INSPECTOR free of charge, all tools, instruments, and other apparatus necessary for the the inspection and/ or testing of the goods. The inspector is entitled to prohibit the use and Dispatch of goods and/or materials, which have failed to comply with the characteristics required for the goods during tests and inspections.
- 13.9** SUPPLIER shall advise in writing of any delay in the inspection program at the earliest, describing in detail the reasons for delay and the proposed corrective action,
- 13.10** ALL TESTS and trials in general, including those to be carried out for materials not manufactured by SUPPLIER shall be witnessed by the inspector. Therefore, seller shall confirm to purchaser by fax or e-mail about the exact date of inspection with at least 30 days notice. SUPPLIER shall specify the goods and quantities ready for

testing and indicate whether a preliminary or final test is to be carried out.

**13.11** If on receipt of this notice, owner should waive the right to witness the test; timely information will be given accordingly.

**13.12** Any and all expenses incurred in connection with tests, preparation of reports and analysis made by qualified laboratories, necessary technical documents, testing documents and drawings shall be at supplier's cost. The technical documents shall include the reference and numbers of the standards used in the construction and, wherever deemed practical by the inspector, copy of such standards.

**13.13** Nothing in Argicl-13 shall in any way release the seller from any warrantee or other obligations under this contract.

**13.14** Arrangement for all inspections required by Indian statutory Authorities and as specified in technical specifications shall be made by supplier.

**13.15 Inspection & Rejection of Materials by consignees**

When materials are rejected by the consignee, the supplier shall be intimated with the details of such rejected materials, as well as the reasons for their rejection, also giving location where such materials are lying at eh risk and cost of the contractor/supplier. The supplier will be called upon either to remove the materials or to give instructions as to their disposal within 14 days and in the case of dangerous, infected and perishable materials within 48 hours, failing which the consignee will either return the materials to the contractor freight to pay or otherwise dispose them off at the contractors risk and cost. The owner shall also be entitled to recover handling and storage charges for the period, during which the rejected

Materials are not removed @5% of the value of materials for each month or part of a month till the rejected materials are finally disposed off.

**14.0 Time Schedule & 14.1 Time Schedule Network/Bar Chart**

**Progress  
Reporting**

**14.1.1** Together with the contract confirmation, supplier shall submit to his time schedule regarding the documentation, manufacture, testing, owner supply, erection and commissioning of the GOODS

**14.1.2** The time schedule will b e in the form of a network or a bar chart clearly indicating all main or key events regarding documentation, supply of raw materials, manufacturing, testing, delivery, erection and commissioning.

**14.1.3** The original issue and subsequent revisions of supplier's time schedule shall be sent to owner.

**14.1.4** The time schedule network/bar chart shall be updated at least every second month.

#### **14.2 Progress Trend Chart / Monthly Report**

14.2.1 SUPPLIER shall report monthly to OWNER, on the progress of the execution of contract and achievement of targets set out in time bar chart.

14.2.2 The progress will be expressed in percentages as shown in the progress of the execution of CONTRACT and achievement of targets set out in time bar chart.

14.2.3 The first issue of the Progress Trend Chart will be forwarded together with the time bar chart along with contract confirmation.

14.3.1 OWNER's representatives shall have the right to inspect supplier's premises with a view to evaluating the actual progress of work on the basis of seller's time schedule documentation.

14.3.2 Irrespective of such inspection, supplier shall advise consultant, with copy to purchaser, at the earliest possible date of any anticipated delay in the progress.

14.3.3 Notwithstanding the above, in case progress on the execution of contract at various stages is not as per phased time schedule and is not satisfactory in the opinion conclusive or supplier shall neglect to execute the contract with due diligence and expedition or shall contravene the provisions of the contract owner may give notice of the same in writing to the supplier calling upon him to make good the failure, neglect or contravention complained of. Should Supplier fail to comply with such notice within the period considered reasonable by owner the owner shall have the option and be at liberty to take the contract wholly or in part out of the supplier's hand and make alternative arrangements to obtain the requirements and completion of contract at the supplier's risk and cost and recover from the supplier, all extra cost incurred by the owner on this account. In such event owner shall not be responsible for any loss that the supplier may incur and supplier shall not be entitled to any gain. Owner shall, in addition, have the right to encase performance Guarantee in full or part.

#### **15.0 Delivery & Documents**

15.1 Delivery of the goods shall be made by the supplier in accordance with specified in the contract, and the goods shall remain at the risk of the Supplier until delivery has been completed.

15.2 Delivery shall be deemed to have been made:

a) In case of FOT dispatch point contract, on evidence that the goods have been loaded on the carrier and a negotiable copy of the goods receipt obtained. The date of LR /GR shall be considered as the date of delivery.

b) In case of FOT site, on receipt of goods by owner at the designated site's.

15.3 The delivery terms are binding and essential and consequently, no delay is allowed without the written approval of owner. Any request

concerning delay will be void unless accepted by owner through a modification of the contract.

- 15.4 Delivery time shall include time for submission of drawings for approval, incorporation of comments, if any, and final approval of drawings by owner.
- 15.5 In the event of delay in delivery, price reduction schedule as stipulated in Article -26 shall apply.
- 15.6 The documentation, in English language, shall be delivered in due time, in proper; form and in the required number of copies as specified in the contract.
- 15.7 The additional copies of final drawings and instructions will be included in the package of goods, properly enveloped and protected.
- 15.8 The supplier should comply with the packing, marking and shipping documentation specifications enclosed.

#### **16.0 Transit Risk**

16.1 All goods supplied under the contract shall be fully insured in a freely convertible currency against loss or damage incidental to manufacture or acquisition, transportation storage and delivery.

Insurance Requirements:

All Transit risk insurance shall be in the scope of Bidder.

#### **17.0 Transportation 17.1**

Where the supplier is required under the contract to deliver the goods at FOT site, all expenses shall be arranged and paid for by the seller and the Cost thereof shall be included in the contract price's.

#### **18.0 Incidental Services**

- 18.1 The supplier may be required to provide any or all of the following Services:
  - 18.1.1 Performance or supervision of onsite assembly and/or start up of the supplied goods.
  - 18.1.2 Furnishing tools required for assembly and/or maintenance of the supplied Goods.
  - 18.1.3 Performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the supplier of any warrantee/guarantee obligations under the contract.
  - 18.1.4 Training of the Owner's personnel at supplier's plant and/ or at site, in assembly, start-up operation, maintenance and/or repair of the supplied Goods at no extra cost. However, Owner will bear boarding, lodging & personal expenses of Trainees.

- 19.0 Spare Parts Maintenance Tools Lubricants**
- 19.1 Supplier may be required to provide any or all of the following materials & notification pertaining to spare parts manufactured or distributed by the supplier.
- 19.2 In the event of termination of production of the spare parts:
- i) Advance notification to the Owner of the pending termination, in sufficient time to permit the Owner procure needed requirements, and
  - ii) Following such termination, furnishing at no cost to the owner, the blue prints, drawings and specifications of procure needed requirements, and
- 19.3 Supplier shall supply item wise list with value of each item of spare parts and maintenance tools requirements, along with full details of manufacturers/vendors for such spares/maintenance tools for :
- 19.4 The construction, execution and commissioning.
- 19.5 Two (2) years operation and maintenance.
- 19.6 Spare parts shall be new and of first class quality as per engineering standards/ codes free of any defects (even concealed), deficiency in design, materials and with the corresponding parts.
- 19.7 Type and sizes of bearings shall be clearly indicated.
- 19.8 Spare parts shall be packed for long storage under tropical climatic conditions in suitable cases, clearly marked as to intended purpose.
- 19.9 A list of special tools and gauges required for normal maintenance and special handling and lifting appliances, if any, for the goods shall be submitted to owner.
- 19.10 Bidders should note that if they do not comply with Clause 19.2 above, their quotation may be rejected.
- 19.11 Lubricants
- 19.12 Whenever lubricants are required, supplier shall indicate the quantity of lubricants required for the first filing, the frequency of changing, the quantity of lubricants required for the one years continuous operation and the types; of recommended lubricants indicating the commercial name (Trademark), quality and grade.
- 19.13 If Supplier is unable to recommend specific oil, basic recommended characteristics of the lubricants shall be given.
- 19.14 Supplier shall indicate various equivalent lubricants available in India.

## 20.0 **Guarantee**20.1

All Goods or materials shall be supplied strictly in accordance with the specifications, drawings, data sheets, other attachments and conditions stated in the Contract.

No deviation from such specifications or alterations or of these conditions shall be made without OWNER'S agreement in writing which must be obtained before any work against the order is commenced. All materials supplied by the supplier pursuant to the Contract (irrespective of whether engineering, design data or other information has been furnished, reviewed or approved by owner are guaranteed to be of the best quality of their respective kinds (unless otherwise specifically authorized in writing by owner and shall be free from faulty design, workmanship and materials, and to be of sufficient size and capacity and of proper materials so as to fulfill in all respects all operating conditions, if any, specified in the contract.

If any trouble of defect, originating with the design, material, workmanship or operating characteristics of any materials, arises at any time prior to twelve (12) months from the date of the first commercial operation of the plant for which the materials supplied under the contract form a part thereof, or twenty four (24) months from the date of last shipment whichever period shall first expire, and the supplier is notified thereof, supplier shall, at his own expense and as promptly as possible, make such permit the materials to function in accordance with the specifications and to fulfill the foregoing guarantees.

Owner may, at his option, remove such defective materials, at supplier's expense in which event supplier shall, without cost to owner and as promptly as possible, furnish and install proper materials. Repaired or replaced materials shall be similarly guaranteed by the supplier for a period of no less than twelve (12) months from the date of replacement/repair.

In the event that the materials supplied do not meet the specifications and /or not in accordance with the drawings data sheets or the terms of the contract and rectification is required at site, Owner shall notify the supplier giving full details of differences. The supplier shall attend the site within seven (7) days of receipt of such notice to meet and agree with representatives of owner, the action required to correct the deficiency. Should the supplier fail to attend meeting at site within the time specified above work/materials and supplier shall reimburse owner all costs and expenses incurred in connection with such trouble or defect.

## 20.2 PERFORMANCE GUARANTEE OF EQUIPMENT

20.2.1 Supplier shall guarantee that the performance of the Equipment supplied under the contract shall be strictly in conformity with the specifications and shall perform the duties specified under the Contract.

20.2.2 If the Supplier fails to prove the guaranteed performance of the equipment set forth in the specification, the Supplier shall investigate the causes and carry out necessary rectifications/modifications to achieve the guaranteed performance. In case the supplier fails to do so within a reasonable period, the supplier shall replace the equipment and prove guaranteed performance of the new equipment without any extra cost to purchaser.

20.2.3 If the Supplier fails to prove the guarantee within a reasonable period, owner shall have the option to take over the Equipment and rectify, if possible, the equipment to fulfill the guarantees and/or to make necessary additions to make up the deficiency at supplier's risk and cost. All expenditure incurred by the owner in this regard shall be to supplier's account.

## **21.0 TERMS OF PAYMENT: Refer SCC**

### **22.0 Prices**

**22.1** Prices charged by the supplier for goods delivered and services performed under the contract shall not, with the exception of any price adjustments authorized by the contract vary from the prices quoted by the supplier in his bid.

### **23 Subletting & Owner's**

23.1 The supplier shall not without previous consent in writing of assignment authority, sublet, transfers or assign the contract or any part thereof or interest therein or benefit or advantage thereof in any manner whatsoever. Provided, nevertheless, that any such consent shall not relieve the contractor from any obligation, duty or responsibility under the contract.

### **24 Time As Essence 24.1**

The time and date of delivery/completion of the goods/services as stipulated in the contract shall be deemed to be the essence of the contract.

### **25 Delays Seller's Performance**

25.1 If the specified delivery schedule is not adhered to or the progress of manufacture or supply of the items is not satisfactory or is not in accordance with the progress schedule the Owner has right to :

- i) Hire for period of delay from elsewhere goods which in Owner's opinion will meet the same purpose as the goods which are delayed and supplier shall be liable without limitation for the hire charges; or
- ii) Cancel the contract in whole or in part without liability for cancellation charges. In that event, Owner may procure from elsewhere goods which Owner's opinion would meet the same purpose as the goods for which Contract is cancelled and Supplier shall be liable without limitations for the difference between the cost of such substitution and the price set forth in the contract for the goods involved; or



- iii) Hire the substitute goods vide (1) above and if the ordered goods continue to remain undelivered thereafter, cancel the order in part or in full vide (ii) above.
- iv) Any inexcusable delay by the Supplier or his subcontractor shall render the Supplier liable, without prejudice to any other terms of the Contract, to any or all of the following sanctions: forfeiture of Contract performance guarantee, imposition of price reduction for delay in delivery and termination of the contract for default.

## **26 Price Reduction 26.1**

In case, vendor fail to complete the work within the stipulated period, then unless such failure is due to force majeure as defined in the bid document, the contract price shall be reduced by ½ % (half percent) of the total price of undelivered quantities of the lot quantity of material covered in that lot for which delivery is delayed, per week or part thereof of delay subject to a maximum of 5% (five percent) of the total Lot value.

All lots shall be considered separately for applying PRS in case of delay as described above

The decision of the Engineer-In-Charge in regard to applicability of PRS shall be final and binding on the Vendor.

In case of delay on the part of the Vendor the invoice shall be submitted after applicable price reduction.

## **27 Rejections, Removal Rejected Equipment & Replacement**

- 27.1** Preliminary inspections at Supplier's works by Inspector shall not prejudice purchase's claim for rejection of the equipment on final inspection at site or claims under warranty provisions.
- 27.2** If the equipments are not of specification or fail to perform specified duties or are otherwise not satisfactory the owner shall be entitled to reject the equipment/material or part thereof and ask free replacement within reasonable time failing which obtain his requirements from elsewhere at Supplier's cost and risk.
- 27.3** Nothing in this clause shall be deemed to deprive the Owner and/or affect any rights under the contract which it may otherwise have in respect of such defects or deficiencies or in any way relieve the supplier of his obligations under the Contract.
- 27.4** Equipment rejected by the Owner shall be removed by the supplier at his cost within 14 days of notice after repaying the amounts received against the supply. The owner shall in no way be responsible for any deterioration or damage to the Equipment under any circumstances whatsoever.

27.5 In case of rejection of Equipment, Owner shall have the right to recover the amounts, if any, from any of contractor's invoices pending with Owner or by alternative method(s)

**28 Termination of Contract**

**28.1 Terminations for Default**

28.1.1 The Owner may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the supplier, terminate the Contract in whole or in part

A) If the Supplier fails to deliver any or all of the goods within the time

B) If the Supplier fails to perform any other obligation(s) under the Contract, and

C) If the Supplier, in either of the above circumstances, does not cure his failure within a period of 30 days (or such longer period as the Owner may authorize in writing) after receipt of the default notice from the Owner.

28.1.2 In the event the Owner terminates the Contract in whole or in part, pursuant to Article 28.1.1, the Owner may procure, upon such terms and in such undelivered and the Supplier shall be liable to the Owner for any excess costs for such similar performance of the Contract to the extent not terminated.

28.1.3 In case of termination of contract herein set forth (under clause 28) except under conditions of Force Majeure and termination after expiry of contract, the SUPPLIER shall be put under holiday i.e. neither any enquiry will be issued to the party by CUGL Against any type of tender nor their offer will be considered by CUGL against any ongoing tender(s) where contract between CUGL and that particular SUPPLIER (as a bidder) has not been finalized) for three years from the date of termination by CUGL to such SUPPLIER.

**28.2 Termination for Insolvency**

28.2.1 The Owner may, by written notice sent to the Supplier, terminate the Contract, in whole or part, at any time for his convenience. The notice of termination shall specify that termination is for the Owner's convenience, the extent to which performance of work under the Contract is terminated and the date upon which such termination becomes effective.

**28.3 Termination for Convenience**

28.3.1 The Owner may, by written notice sent to the Supplier, terminate the Contract, in whole or part, at any time for his convenience. The notice of termination shall specify that termination is for the Owner's convenience, the extent to which performance of work under the Contract is terminated

and the date upon which such termination becomes effective.

28.3.2 The Goods that are complete and ready for shipment within 30 days after the Supplier's receipt of notice of termination shall be purchased by the Owner at the Contract terms and prices. For the remaining Goods, the Owner may opt:

- a) to have any portion completed and delivered at the Contract terms and prices, and/ or
- b) to cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and for materials and parts previously procured by the Supplier.

29      **Force Majeure**

29.1 Shall mean and be limited to the following:

- a) War/hostilities
- b) Riot or Civil commotion
- c) Earthquake, flood, tempest, lightening or other natural physical disaster.
- d) Restrictions imposed by the Government or other statutory bodies, which prevents or delays the execution of the Contract by the Seller

The Supplier shall advise Owner by a registered letter duly certified by the local Chamber of Commerce or statutory authorities, the beginning and end of the above causes of delay within seven (7) days of the occurrence and cessation of such Force Majeure Conditions. In the event of delay lasting over one month, if arising out of causes of Force Majeure, Owner reserves the right to cancel the Contract and the provisions governing termination stated under Article 28.0 shall apply.

For delays arising out of Force Majeure, the Supplier shall not claim extension in completion date for a period exceeding the period of delay attributable to the causes of Force Majeure and neither Owner nor Supplier shall be liable to pay extra costs provided it is mutually established that Force Majeure Conditions did actually exist,.

Supplier shall categorically specify the extent of Force Majeure Conditions prevalent in their works at the time of submitting their bid and whether the same have been taken into consideration or not in their quotations. In the event of any force Majeure cause, the Supplier or the Owner shall not be liable for delays in performing their obligations under this order and the delivery date will be extended to the Supplier without being subject to price reduction for delayed deliveries, as stated elsewhere.

30      **Resolution of  
Dispute /  
Arbitration**

30.1 The Owner and the Supplier shall make every effort to resolve amicably by direct informal negotiations any disagreement or dispute arising between them under or in connection with the contract.

30.2 If, after thirty days from the commencement of such informal negotiations, the Owner and the Supplier have been

unable to resolve amicably a Contract dispute either party may require that the dispute be referred for resolution to the formal mechanism as specified hereunder.

**30.3 Legal Construction**

The contract shall be, in all respects be construed and operated as an Indian Contract and in accordance with Indian Laws as in force for the time being and is subject to and referred to the Court of Law situated within Union Territory of New Delhi.

**30.4 Arbitration**

All disputes, controversies, or claims between the parties (except in matters where the decision of the Engineer-in-charge is deemed to be final and binding), which cannot be mutually resolved within a reasonable time, shall be referred to Arbitration by a sole arbitrator

The OWNER (CUGL) shall suggest a panel of three independent and distinguished persons to the Supplier to select any one among them to act as the sole Arbitrator, In case event of failure of the Supplier to select the Sole Arbitrator within 30 days from the receipt of the communication suggesting the panel of arbitrator, the right of selection of Sole Arbitrator by the other party shall stand forfeited and the Owner shall have discretion to proceed with the appointment of the Sole Arbitrator. The decision of the Owner on the appointment of Sole Arbitrator shall be final and binding on the parties.

The award of the Sole Arbitrator shall be final and binding on the parties and unless directed/awarded otherwise by the sole Arbitrator, the cost of arbitration proceedings shall be shared equally by the parties. The arbitration proceeding shall be in English language and the venue shall be at Kanpur, Uttar Pradesh, India.

Subject to the above, the provisions of (Indian) Arbitration & Conciliation Act, 1996 and the rules framed hereunder shall be applicable. All matters relating to this contract are subject to the exclusive jurisdiction of the Courts situated in the State of Delhi (India)

Supplier may please note that the Arbitration & Conciliation Act 1996 was enacted by the Indian Parliament and is based on United Nations Commission on International Trade Law (UNCITRAL model law). Which were prepared after extensive consultation with Arbitral Institutions and centers of International Commercial Arbitration The United Nations General Assembly vide resolution 31/98 adopted the UNCITRAL Arbitration rules on 15 December 1996.

The WORKs under the CONTRACT shall, however, continue during the Arbitration proceedings and no payment due or payable to the Supplier shall be withheld on account of such proceedings.

**31 Governing Language**

31.1 The Contract shall be written in English language as specified by the Owner in the instruction to Bidders. All literature, correspondence and other documents pertaining to the Contract which are exchanged by the parties shall be written in English language. Printed literature in other language shall only be Considered, if it is accompanied by an English translation. For the purposes of interpretation English translation shall govern and be binding on all parties.

**32 Notices**

32.1 Any notice given by one party to the other pursuant to the Contract shall be sent in writing or by telegram or fax, telex/cable confirmed in writing.

32.2 A notice shall be effective when delivered or on the notice's effective date, whichever is later.

**33 Taxes & Duties**

33.1 A foreign supplier shall be entirely responsible for all taxes stamp duties, license fees, and other such levies imposed outside the Owner's country.

33.2 A domestic Supplier shall be entirely responsible for all taxes, duties, license fees etc. incurred until the delivery of the contracted goods to the owner. However, Sales Tax and Excise Duty on finished products shall be reimbursed by Owner.

33.3 Customs duty payable in India for imported goods ordered by Owner on foreign supplier shall be borne and paid by Owner

33.4 Any income tax payable in respect of supervisory services rendered by foreign supplier under the Contract shall be as per the Indian Income Tax Act and shall be borne by Supplier. It is up to the bidder/supplier to ascertain the amount of these taxes and to include them in his bid price.

**34 Books & records**

34.1 Supplier shall maintain adequate books and records in connection with contract and shall make them available for inspection and audit by Owner or their authorized agents or representatives during the terms of Contract until expiry of the performance guarantee. Fixed price (lump sum or unit price) Contract will not be subject to audit as to cost except for cost reimbursable items, such as escalation and termination claims, transportation and comparable requirements.

- 35      **Permits & Certificate** 35.1 Supplier shall procure, at his expense, all necessary permits, certificates and duties, license fees, and other such levies imposed outside the licenses required by virtue of all applicable laws, regulations, ordinances and other rules in effect at the place where any of the work is to be performed, and supplier further agrees to hold Owner and / or harmless from liability or penalty which might be imposed by reason of any asserted or established violation of such laws, regulations, ordinances or other rules. Owner will provide necessary permits for Supplier personnel to undertake any work in India in connection with Contract.

### **36.General**

In the event that and conditions stipulated in the General Condition of Contract should deviate from terms and conditions stipulated in the Contract, the latter shall prevail.

- 36.1      **Losses due to non-compliance of Instructions**  
Losses or damages occurring to the Owner owing to the Supplier's  
Failure to adhere to any of the instructions given by the Owner in connection with the contract execution shall be recoverable from the Supplier.
- 36.2      **Recovery of sums due**  
  
All costs, damages of expenses which the Owner may have paid, for which under the Contract Supplier is liable, may be recovered by the Owner (he is hereby irrevocably authorized to do so) from any money due to or becoming due to the Supplier under this contract or other Contracts and/or may be recovered by action at law or otherwise. If the same due to the Supplier be not sufficient to recover the recoverable amount, the Supplier shall pay to the Owner, on demand, the balance amount.
- 36.3      **Payments, etc. not to affect rights of the Owner** No sum paid on account by the Owner nor any extension of the date for completion granted by the Owner shall affect or prejudice the rights of the Owner against the Supplier or relieve the Supplier of his obligation for the due fulfillment of the Contract.
- 36.4      **Cut-off Dates**  
No claims or correspondence on this Contract shall be entertained by there Owner after 90 days after expiry of the performance guarantee (from the date of final extension) if any.
- 36.5      **Paragraph heading**  
  
The Paragraph heading in these conditions shall not affect the construction thereof.

### **37 Import License**

37.1 No import license is required for the imports covered under this document.

### **38 Fall Clause**

38.1 The price charged for the materials supplied under the order by the supplier shall in no event exceed the lowest price at which the supplier or his agent/principal/dealer, as the case may be, sells the materials of identical description to any persons/organizations including the Owner of any department of the Central Govt. or any Department of a State Govt. or any Statutory Undertaking of the Central of State Govt. as the case may be, during the currency of the order.

38.2 If at any time during the said period, the supplier or his agent/principal/dealer, as the case may be, reduces the sale price, sells or offers to sell such materials to any persons/organizations including the Owner or any Department. Of Central Govt. or State Govt. as the case may be, at price lower than the price chargeable under the order, he shall forthwith notify such reduction or sale or offer of sale to the Purchase Authority who has issued this order and the price payable under the order for the materials supplied after the date of coming into force of such reduction or sale or offer of sale shall stand correspondingly reduced.

The above stipulation will, however, not apply to :

- a) Exports by the Contractor/Supplier or
- b) Sale of goods as original equipment at prices lower than the prices charged for normal replacement
- c) Sale of goods such as drugs, which have expiry dates.

38.3 The supplier shall furnish the following certificate to the concerned Paying Authority along with each bill for payment for supplies made against this order:-

I/We certify that there has been no reduction in sale price of the items/goods/materials of description identical to those supplied to the CUGL under the order herein and such items/goods/materials have not been offered/sold by me/us to any person/organizations including the Purchaser or any Department. Of Central Govt. or any Department. Of State govt. or any Statutory Undertaking of the Central or State Govt. as the case may be up to the date of bill/during the currency of the order whichever is later, at a price lower than the price charged to the CUGL under the order.”

Such a certificate shall be obtained, except for quantity of items/goods/materials categories under sub-clause (a), (b) &

(c) of sub-Para 38.2 above, of which details shall be furnished by the supplier.

**39Publicity      39.1**

Supplier shall not without the written permission of Owner or any Company affiliated with Owner or to the destination or the description of goods or services supplied under the contract in any publication, publicity or advertising media.

**40      Repeat Order**

**40.1** Prices and discounts, if any and other terms & conditions shall also remain valid up to twelve months from the placement of notification of award (Fax of Intent) for the purpose of placement of repeat order up to 100% ordered quantity

**41      Limitation of 41.1  
Liability**

notwithstanding anything contrary contained herein] the aggregate total liability of Supplier under the Agreement or otherwise shall be limited to 100% of Agreement / Order price. However, neither party shall be liable to the other party for any indirect and consequential damages, loss of profits or loss of production



# **BEC (BID EVALUATION CRITERIA)**

## **SECTION-IV**

## BID EVALUATION CRITERIA (BEC)

### TECHNICAL CRITERIA

#### 1.0 Group: A (Commercial Diaphragm Meter with AMR)

a) The Bidder should have directly supplied minimum of below mentioned quantity (as per table) of Commercial Diaphragm gas meter with installed AMR or Smart Commercial Gas Meter to any City Gas Distribution Entity in India or USA or Europe during last 7 years from the bid due date.

Sr. No	Item	Type	Unit	Minimum Qty.
1	Diaphragm meter with AMR	G-4 or higher capacity	Nos.	5
2	Diaphragm meter with AMR	G-6 or higher capacity	Nos.	5
3	Diaphragm meter with AMR	G-10 or higher capacity	Nos.	13
4	Diaphragm meter with AMR	G-16 or higher capacity	Nos.	4

b) In case bidder is Gas Meter Manufacturer and bidder does not qualify directly for required criteria as per 1a, then bidder shall also tie up with any AMR module manufacturer who must have directly or indirectly supplied AMR modules to an established company in the field of Water/Electricity/Gas distribution in India or USA or Europe during last 7 years from the bid due date to fulfill the 1a criteria.

c) In case bidder is AMR Manufacturer then bidder shall also tie up with any Gas Meter manufacturer who must have directly or indirectly supplied commercial Diaphragm Gas meters to an established company in any City Gas Distribution Entity in India or USA or Europe during last 7 years from the bid due date to fulfill the 1a criteria.

#### 2.0 Group: B (Commercial RPD Meter with EVC & AMR)

a) The Bidder should have directly supplied minimum quantity of below mentioned table Commercial RPD gas meter with installed AMR or Smart Commercial Gas Meter to any City Gas Distribution Entity in India or USA or Europe during last 7 years from the bid due date.

Sr. No	Item	Type	Unit	Minimum Qty.
1	RPD Meter with EVC and AMR	G-10 or higher capacity	Nos.	1
2	RPD Meter with EVC and AMR	G-16 or higher capacity	Nos.	4
3	RPD Meter with EVC and AMR	G-25 or higher capacity	Nos.	4
4	RPD Meter with EVC and AMR	G-40 or higher capacity	Nos.	4
5	RPD Meter with EVC and AMR	G-65 or higher capacity	Nos.	1
6	RPD Meter with EVC and AMR	G-160 or higher capacity	Nos.	1
7	RPD Meter with EVC and AMR	G-250 or higher capacity	Nos.	1
8	RPD Meter with EVC and AMR	G-400 or higher capacity	Nos.	1

b) In case bidder is Gas Meter Manufacturer and bidder does not qualify directly for required criteria as per 1a, then bidder shall also tie up with any AMR module manufacturer who must have directly or indirectly supplied AMR modules to an established company in

the field of water / electricity/ gas distribution in India or USA or Europe during last 7 years from the bid due date to fulfill the 2a criteria.

c) In case bidder is AMR Manufacturer, bidder shall also tie up with any Gas Meter manufacturer who must have directly or indirectly supplied commercial RPD Gas meters to an established company in any City Gas Distribution Entity in India or USA or Europe during last 7 years from the bid due date to fulfill the 2a criteria.

### **For Authorized Supplier:**

In case the manufacturer(s) who do not submit bid directly as a matter of their corporate policy, they may submit bid through their authorized supplier/ subsidiary, (as “Bidder”), subject to fulfilling the following criteria:

3.1 The Bidder shall furnish from manufacturer, a certificate indicating that the manufacturer as a corporate policy does not quote directly and their materials are quoted through authorized supplier / subsidiary only.

3.2. The Bidder shall furnish a valid authority letter from the manufacturer as their authorized supplier / subsidiary, valid as on the due date of submission of bid, authorizing them to quote against the subject tender. Manufacturer shall have the prime responsibility of providing unconditional technical guarantee/warranty and after sales support to the purchaser. A confirmation letter or undertaking by the manufacturer to this effect shall be submitted along with the bid.

3.3 The Bidder must meet the qualification criteria mentioned at Clause 1a & 2a for Group A and Group B respectively.

One manufacturer can quote through only one authorized supplier for one group and an authorized supplier shall offer product of only one manufacturer for one group.

Note: 1. If the manufacturing unit is outside of India, then the Third-party Inspection at manufacturing unit of bidder shall be arranged by the bidder at their own cost. The list of TPI's shall be provided by the bidder and CUGL shall approve one of them for inspection.

2. If bidder supplies the meter of manufacturer from outside of India. then the bidder should have facility in India for providing all kind of after sale support/services to CUGL. Bidder should have Registered office in India.

### **Documents Required**

Bidder shall submit minimum following documents to establish their credentials to meet above Criteria:

- Purchase order (s)/ Work Order (s) defining the complete scope of work.
- Inspection release note(s)/ Dispatch clearance note issued by Purchaser/ Consultant or their authorized representative.
- Notarised Tie-up agreement between Meter Manufacture / AMR Module Manufacturer entity duly signed by authorized person.

- Bidder to provide authority letter of the person from Manufacture(s), authorising to sign the agreement on behalf of the manufacturing Company.

## **DOCUMENTS TO BE SUBMITTED AT THE TIME OF BIDDING**

The bidder shall submit following documents:

- Datasheets
- Pressure drop calculations
- Battery life calculation
- Performance curves
- Technical catalogues for relevant models offered
- Deviations from technical specification, if any
- Supplies against major orders for natural gas application
- Type approval certificate as per BS EN 1359:1999 + A1 Amendment 2006 or latest
- Calibration certificate.

## **STATUARY CERTIFICATIONS**

- Type approval certificate as per BS EN 1359:1999+ A1 Amendment 2006 or latest for meters.
- Weights and Measures approval certificate for the meters shall be provided along with the bid and supply, notwithstanding which, bid shall be liable for rejection.
- ATEX certificate for electrical/electronic items conforming to Zone2, IIB
- PESO/CCOE certificate electrical/electronic items conforming to Zone2, IIB shall be provided along with the bid and supply, notwithstanding which, bid shall be liable for rejection.
- Certificate to IEC 60529 (IP protection)

## **FINANCIAL CRITERIA**

### **Annual Turnover**

The minimum annual turnover achieved by the Bidder as per their audited financial results during any one of the preceding three (03) financial years should be as below:

Minimum annual turnover shall be as follows:

Group A:	Rs. 27.24 Lacs
Group B:	Rs. 56.35 Lacs

### **Net worth**

Net worth of the Bidder should be positive as per the last audited financial statement.

### **Working capital**

The minimum working capital of the Bidder as per the last audited financial statement should be as below:

Minimum Working Capital shall be as follows:

Group A: Rs. 5.44 Lacs

Group B: Rs. 11.27 Lacs

*If the bidder's working capital is inadequate, the bidder shall supplement the shortfall with letter issued by his Banker, having a net worth not less than INR 100 Crores*

*confirming the availability of line of credit to meet the specified working capital requirement.*

In case of tenders having the bid closing date up to 30th September of the relevant financial years and audited financial results of immediate 3 (three) preceding financial years being not available, the bidder has an option to submit the audited financial results of three years immediately prior to that relevant financial year. Wherever, the bid closing date is after 30th September of the relevant financial year, bidder has to compulsorily submit the audited financial results of immediate preceding three financial years.

Bidder shall meet the qualification criteria as stated Bid Evaluation Criteria. Bidder shall furnish following documents along with the bid, to justify meeting the stipulated qualification criteria.

- Annual audited reports including Balance Sheets and Profit & Loss account statement for which the data to be provided so that the data provided above can be verified. In case, Audit is not mandatory as per the Statutory Norms for Bidder, it is required to submit a copy of his Annual Accounts duly certified by a Chartered Accountant along with the copy of Income Tax Return.
- Owner reserves the right to get direct feedback from user on satisfactory performance.

In case the bidder quotes for more than one groups, the requirement of financial criteria shall be on cumulative basis for the quoted group. However, the technical criteria shall be on respective item wise basis only.

Price evaluation shall be done on item wise basis.

If bidder fails to provide the requisite documents, CUGL reserves the right to reject the Bid.

**SCC  
(SPECIAL  
CONDITIONS OF  
CONTRACT)**

**SECTION-V**

# SPECIAL CONDITIONS OF CONTRACT

## **1.0 General**

- 1.1 SCC shall be read in conjunction with the General Conditions of Contract, Specification of work, drawing and any other documents forming part of this Contract wherever the context so requires.
- 1.2 Notwithstanding the sub-division of the documents into these separate sections and volumes, every part of each shall be deemed to be supplementary to and complementary of every other part and shall be read within the Contract so far as it may be practicable to do so.
- 1.3 Where any portion of the General Conditions of Contract (GCC) is repugnant to or is at variance with any of the provisions of the SCC and unless a different intention appears, the provisions of the SCC shall prevail over the provisions of the GCC.
- 1.4 Wherever it is mentioned in the specification that the Bidder shall perform certain work or provide certain facilities, it is understood that the Bidder shall do so at his cost and the Value of Contract shall be deemed to be including the cost of such performance and provisions, so mentioned.
- 1.5 The materials, design, and workmanship shall satisfy the relevant Indian / Foreign Standards, the Technical Specifications / Data Sheets contained herein and Codes referred to. Where the job specification stipulates requirements in addition to those contained in the standard codes and specifications, these additional requirements shall also be satisfied.
- 1.6 In case of an irreconcilable conflict between Indian and other applicable standards, GCC, SCC, Specification, Drawings or Schedule of Rates (SOR), the following shall prevail to the extent of such irreconcilable conflict and in this order of precedence:
  - i) Letter of Acceptance / FOI along with Statement of Agreed Variations.
  - ii) SOR as enclosures to Letter of Acceptance
  - iii) SCC
  - iv) Drawings
  - v) Technical / Material Specifications / Data Sheets
  - vi) Instruction to Bidder
  - viii) Applicable standards
- 1.7 It will be the Bidder's responsibility to bring to the notice of Engineer-In-Charge any irreconcilable conflict in the contract documents before starting the work or making the supply with reference to which the conflict exists.
- 1.8 In the absence of any specifications covering any material, design of work the same shall be performed / supplies / executed in accordance with Standard Engineering Practice as per the instructions / directions of the Engineer – In – Charge, which will be binding on the Bidder.

## **2.0 Scope of Work**

- 2.1 The scope of work shall include supply of stipulated quantity of items mentioned in SOR on FOT site Basis and as set out in the Material Requisition (MR)/ Technical Specifications (TS).

## **3.0 Terms of Payments (Indian)**

- 3.1 The payment shall be made in the following manner subject to completion of all contractual requirements as per tender document:
  - 3.1.1. 80% of the invoice value along with taxes and duties shall be paid progressively within 30 days after acceptance of Goods at designated CUGL Site/ store in Kanpur, Unnao, Bareilly and Jhansi upon submission of the following:

- (i) GST Invoice
- (ii) All test certificates with one set of copy
- (iii) Packing List
- (iv) LR/GR
- (v) IRN ( Inspection Release Note)
- (vi) Documents as specified in the Technical Specifications.
- (vii) A certificate from manufacturer that the all items/ equipment under supply including its component or raw material used with manufacturing are new and conform to the tender requirement. In case manufacturer is not the contractor this certificate will duly be endorsed by the contractor owning overall responsibility.
- (viii) Copy of Performance Bank Guarantee(s) of appropriate value (as per order) as already submitted by supplier.
- (ix) In case of delay in receipt of material at site the invoice value shall be reduced to take care of stipulation of PRS clause of the contract

3.1.2 15% after commissioning of supplied meters or within 180 days after the receipt of goods with submission of undertaking for "all service as and when required will be provided by bidder", whichever is earlier.

3.1.3 5% shall be released after the completion of 5 year of webhosting services (i.e. for entire duration of contract) reckoned from the date of supplied meters.

### 3.2 General Notes

- i) All bank charges incurred in connection with payments shall be to vendor's account.
- ii) Unless otherwise specifically stated in the bid document, all payments shall be made in the currency quoted.

4.0 N/A

5.0 N/A

### 6.0 Delivery schedule

The delivery period shall be 8 Weeks from the date of LOI for first lot. The delivery of ordered quantity shall be in multiple lots as per below table:-

Delivery Schedule for Commercial Gas Meters (8 weeks from the date of issue of LOI)					
Sl. No.	Description	UOM	Total Qty	1 <sup>st</sup> Lot Qty	Qty for remaining Subsequent Lot
<b>GROUP-A (Commercial Diaphragm gas Meter with AMR)</b>					
1	Diaphragm meter with AMR- G4	Nos.	20	10	10



2	Diaphragm meter with AMR- G6	Nos.	20	10	10
3	Diaphragm meter with AMR- G-10	Nos.	45	25	20
4	Diaphragm meter with AMR- G-16	Nos.	15	7	8
<b>GROUP-B (Commercial RPD gas Meter with AMR and EVC)</b>					
1.	RPD Meter with EVC and AMR- G 10	Nos.	1	1	0
2.	RPD Meter with EVC and AMR- G 16	Nos.	12	8	4
3.	RPD Meter with EVC and AMR- G 25	Nos.	14	7	7
4.	RPD Meter with EVC and AMR- G 40	Nos.	16	8	8
5.	RPD Meter with EVC and AMR- G 65	Nos.	3	2	1
6.	RPD Meter with EVC and AMR- G 160	Nos.	2	2	0
7.	RPD Meter with EVC and AMR- G 250	Nos.	1	1	0
8.	RPD Meter with EVC and AMR- G 400	Nos.	1	1	0

**Remaining Lots:** Delivery Orders (DO) shall be issued on need basis for remaining quantity. Delivery period shall be 8 weeks from the date of intimation for lot quantities (DO) within a period of one year from the date of issue of LOI.

The above quantities are for any locations of Kanpur, Bareilly, Unnao & Jhansi. However, actual qty. to be confirmed at the time of dispatch clearance for delivery of materials for Kanpur, Bareilly, Unnao & Jhansi.

#### **For webservices:**

The contract period for the web services shall be valid for the 05 year from the date of receipt of last lot.

### **7.0 PRICE REDUCTION SCHEDULE (PRS)**

#### **7.1 PRICE REDUCTION SCHEDULE FOR DELAYED DELIVERY/COMPLETION**

In case, vendor fail to complete the work within the stipulated period, then unless such failure is due to force majeure as defined in the bid document, the contract price shall be reduced by ½ % (half percent) of the total price of undelivered quantities of the lot quantity of material covered in that lot for which delivery is delayed, per week or part thereof of delay subject to a maximum of 5% (five percent) of the total Lot value.

All lots shall be considered separately for applying PRS in case of delay as described above. The decision of the Engineer-In-Charge in regard to applicability of PRS shall be final and binding on the Vendor.

In case of delay on the part of the Vendor the invoice shall be submitted after applicable price reduction.

**8.0 Third Party Inspection:**

The inspection shall be carried out by TPIA / Purchaser representative at bidder's works/ sub-contractor's work as per approved QAP and inspection charges will be borne by Purchaser (CUGL). However, in case wherever inspection is to be carried out by supplier only then supplier will bear the inspection expenses.

The above mentioned inspection requirement supersedes all other inspection / conditions specified in tender document.

# FORMS & FORMATS

## SECTION-VI

### F-1

#### BIDDER'S GENERAL INFORMATION

To,  
Central UP Gas Limited,  
7<sup>th</sup> floor, UPSIDC complex  
A-1/4, Lakhanpur  
Kanpur-208024  
India\_\_\_\_\_

TENDER NO:

SUB :

1	Bidder Name	
2	Status of Firm	Proprietorship Firm/Partnership firm/ Limited/Others If Others Specify: _____ [Enclose certificate of Registration]
3	Name of Proprietor/Partners/Directors of the firm/company	
4	Whether supplier/ manufacturer / Dealer/ Trader/ Contractor	
5	Number of Years in Operation	
6	Address of Registered Office:  *In case of Partnership firm, enclose letter mentioning current address of the firm and the full names and current addresses of all the partners of the firm.	<div>City:</div> <div>District:</div> <div>State:</div> <div>PIN/ZIP:</div>
7	Operation Address (if different from above)	<div>City:</div> <div>District:</div> <div>State:</div> <div>PIN/ZIP:</div>
8	Telephone Number	<div>_____</div> <div>(Country Code) (Area Code)</div> <div>(Telephone No.)</div>
9	E-mail address	
10	Website	
11	Fax Number:	<div>_____</div> <div>_____</div> <div>(Country Code) (Area Code)</div> <div>(Telephone No.)</div>
12	ISO Certification, if any	{ If yes, please furnish details }
13	Bid Currency	

14	Banker's Name	
15	Branch Name & IFSC Code	
17	Bank account number	
18	PAN No.	[Enclose copy of PAN Card]
19	EPF Registration No.	[Enclose copy of EPF Registration Certificate]
20	ESI code No.	[Enclose copy of relevant document]
21	GST No.	

Place:

Date:

[Signature of Authorized Signatory of Bidder]

Name:

Designation:

Seal:

**F-2**  
**BID FORM**

To,  
Central UP Gas Limited,  
7<sup>th</sup> floor, UPSIDC complex  
A-1/4, Lakhanpur  
Kanpur-208024  
India

SUB:  
TENDER NO:  
Dear Sir,

After examining / reviewing the Bidding Documents for the tender of  
“\_\_\_\_\_” including  
"Specifications & Scope of Work", "General Conditions of Contract [GCC]", "Special Conditions  
of Contract [SCC]" and "Schedule of Rates [SOR]", etc. the receipt of which is hereby duly  
acknowledged, we, the undersigned, are pleased to offer to execute the whole part of the job and  
in conformity with the said Bid Documents, including Addenda / Corrigenda Nos. -.

We confirm that this Bid is valid for a period of "four [04] months" from the date of opening of  
"Techno-Commercial / Un-priced Bid", and it shall remain binding upon us and may be accepted  
by any time before the expiry of that period.

If our Bid is accepted, we will provide the "Contract Performance Security / Security Deposit"  
equal to "\_\_\_\_\_ of the Contract Price" or as mentioned in Tender Document for the due  
performance within "twenty one [21] days" of such Award.

Until a final Agreement/Letter of Award is prepared and executed, the tender document (including  
addenda/ corrigenda) together with the "Notification of Award" shall constitute a binding  
Agreement between us.

We understand that Bidding Document is not exhaustive and any action and activity not mentioned  
in Bidding Documents but may be inferred to be included to meet the intend of the Bidding  
Documents shall be deemed to be mentioned in Bidding Documents unless otherwise specifically  
excluded and we confirm to perform for fulfillment of Agreement and completeness of the Work  
in all respects within the time frame and agreed price.

We understand that you are not bound to accept the lowest priced or any Bid that you may receive.

Place: [Signature of Authorized Signatory of Bidder]

Date: Name:

Designation:

Seal:

Duly authorized to sign Bid for and on behalf of \_\_\_\_\_

[Signature of Witness]

Name of Witness:

Address:

**F-3**  
**LIST OF ENCLOSURES**

To,  
Central UP Gas Limited,  
7<sup>th</sup> floor, UPSIDC complex  
A-1/4, Lakhanpur  
Kanpur-208024  
India  
SUB:

TENDER NO:

**Dear Sir,**

We are enclosing the following documents as part of the bid:

1. Power of Attorney of the signatory to the Bidding Document.
2. Document showing annual turnover for the last three years such as annual reports, profit and loss account, net worth etc. along with information as sought in enclosed format F-16
3. Document showing Financial Situation Information as sought in enclosed format F-16
4. Copy of Bidding Documents along with addendum/corrigendum duly signed and sealed on each page, in token of confirmation that Bid Documents are considered in full while preparing the bid and in case of award, work will be executed in accordance with the provisions detailed in Bid Documents.
5. Documentary Evidences showing the Bidder's claim of meeting Technical Criteria as mentioned in Clause 4 of ITB.
6. Bid Security/EMD\*
7. Power of Attorney\*
8. Duly certified document from chartered engineer and or chartered accountant.

Note: \* In case of e-bidding the bidder has the option to submit specified documents in physical form on/before the bid due date or within seven days from the bid opening date. However, scanned copy of these (same) documents must be submitted on-line as part of e-bid before the bid due date/time.

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



**FORMAT F-4**  
**PROFORMA OF "BANK GUARANTEE" FOR "EARNEST MONEY / BID**  
**SECURITY"**

(To be stamped in accordance with the Stamp Act)

**Ref.....**

**Bank Guarantee No.....**

**Date.....**

To,

Central UP Gas Limited,  
7<sup>th</sup> floor, UPSIDC complex  
A-1/4, Lakhanpur  
Kanpur-208024  
India

SUB:

TENDER NO:

**Dear Sir(s),**

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

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

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

We, the \_\_\_\_\_ Bank at \_\_\_\_\_ having our Head Office \_\_\_\_\_ (Local Address) guarantee and undertake to pay immediately on demand without any recourse to the tenderers by Central UP Gas Limited, the amount \_\_\_\_\_ without any reservation, protest, demur and recourse. Any such demand made by CUGL, shall be conclusive and binding on us irrespective of any dispute or difference raised by the Tenderer.

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

instructions from M/s. \_\_\_\_\_ whose  
behalf this guarantee is issued.

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

WITNESS:

(SIGNATURE)  
(NAME)

(SIGNATURE)  
(NAME)

Designation with Bank Stamp

(OFFICIAL ADDRESS)

Attorney as per  
Power of Attorney No. \_\_\_\_\_  
Date: \_\_\_\_\_

-----  
**INSTRUCTIONS FOR FURNISHING "BID SECURITY / EARNEST MONEY"**  
**BY "BANK GUARANTEE"**

1. The Bank Guarantee by Bidders will be given on non-judicial stamp paper as per "Stamp Duty" applicable. The non-judicial stamp paper should be in the name of

the issuing Bank. In case of foreign Bank, the said Bank's Guarantee to be issued by its correspondent Bank in India on requisite non-judicial stamp paper

2. The expiry date should be arrived at in accordance with "ITB: Clause-15.1".
3. The Bank Guarantee by bidders will be given from Bank as specified in "ITB".
4. A letter from the issuing Bank of the requisite Bank Guarantee confirming that said Bank Guarantee / all future communication relating to the Bank Guarantee shall be forwarded to the Employer at its address as mentioned at "ITB".
5. Bidders must indicate the full postal address of the Bank along with the Bank's E-mail / Fax / Phone from where the Earnest Money Bond has been issued.
6. If a Bank Guarantee is issued by a commercial Bank, then a letter to Employer confirming its net worth is more than Rs. 1,000,000,000.00 [Rupees One Hundred Crores] or equivalent alongwith documentary evidence.

**F-4A**  
**PROFORMA OF "LETTER OF CREDIT" FOR "EARNEST MONEY / BID**  
**SECURITY"**

To,

Central UP Gas Limited,  
7<sup>th</sup> floor, UPSIDC complex  
A-1/4, Lakhanpur  
Kanpur-208024  
India

SUB:

TENDER NO:

**Irrevocable and confirmed Letter of Credit No. .... Amount: Rs.**  
**..... Validity of this Irrevocable:**  
**..... (in India)Letter of Credit (2**  
**months beyond validity of Offer)**

**Dear Sir,**

1. You are hereby authorized to draw on ..... (Name of Applicant with full address) for a sum not exceeding ..... available by your demand letter (draft) on them at sight drawn for Rs. .... accompanied by a certificate by Central UP Gas Limited, with the Tender No. duly incorporated therein, that one or more of the following conditions has/have occurred, specifying the occurred condition(s):

- (i) The Bidder withdraws its Bid during the period of Bid validity or any extension thereof duly agreed by the Bidder.
- (ii) The Bidder varies or modifies its Bid in a manner not acceptable to CUGL (India) Limited during the period of bid validity or any extension thereof duly agreed by the Bidder.
- (iii) The Bidder, having been notified of the acceptance of its Bids,
  - (a) Fails or refuses to execute the Supply Order/Contract
  - (b) Fails or refuses to furnish the Contract Performance Security within 30 days before expiry of Bid Security.
  - (c) Fails to accept arithmetic corrections as per tender conditions.

2. This Irrevocable Letter of Credit has been established towards Bid Security Tender No ..... for ..... (Item)

3. We hereby guarantee to protect the Drawers, Endorsers and bonafide holders from any consequences, which may arise in the event of the non-acceptance or non-payment of Demand Letter (draft) in accordance with the terms of this credit.

4. This Credit is issued subject to the Uniform Customs and Practices for Documentary Credits International Chamber of Commerce brochure No. 600.
5. Please obtain reimbursement as under: .....
6. All foreign as well as Indian bank charges will be on the account of M/s. .... (Applicant)

FOR .....

**Authorized Signature**  
(Original Bank)

**Counter Signature**

---

**F-5**  
**LETTER OF AUTHORITY**

[Pro forma for Letter of Authority for Attending Subsequent 'Negotiations' / 'Pre-Bid Meetings' / 'Un-priced Bid Opening' / 'Price Bid Opening']

Ref:

Date:

To,  
Central UP Gas Limited,  
7<sup>th</sup> floor, UPSIDC complex  
A-1/4, Lakhanpur  
Kanpur-208024  
India

SUB:

TENDER NO:

**Dear Sir,**

I/We, \_\_\_\_\_ hereby authorize the following representative(s) for attending any 'Negotiations' / 'Meetings [Pre-Bid Meeting]', 'Un-priced Bid Opening', 'Price Bid Opening' and for any subsequent correspondence / communication against the above Bidding Documents:

[1] Name & Designation \_\_\_\_\_ Signature \_\_\_\_\_

Phone/Cell:

Fax:

E-mail: ..... @ .....

[1] Name & Designation \_\_\_\_\_ Signature \_\_\_\_\_

Phone/Cell:

Fax:

E-mail: ..... @ .....

[2] Name & Designation \_\_\_\_\_ Signature \_\_\_\_\_

Phone/Cell:

Fax:

E-mail: ..... @ .....

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

Place:

[Signature of Authorized Signatory of Bidder]

Date:

Name:

Designation:

Seal:

Note: This "Letter of Authority" should be on the "**letterhead**" of the Firm / Bidder and should be signed by a person competent and having the 'Power of Attorney' to bind the Bidder. Not more than 'two [02] persons per Bidder' are permitted to attend "Techno-commercial / Un-priced" & "Price Bid" Openings. Bidders authorized

representative is required to carry a copy of this authority letter while attending the un-priced and priced bid opening, the same shall be submitted to CUGL.

**F-6**  
**"NO DEVIATION" CONFIRMATION**

To,

Central UP Gas Limited,  
7<sup>th</sup> floor, UPSIDC complex  
A-1/4, Lakhapur  
Kanpur-208024  
India

SUB:

TENDER NO:

**Dear Sir,**

We understand that any 'deviation / exception' in any form may result in rejection of Bid. We, therefore, certify that we have not taken any 'exception / deviation' anywhere in the Bid and we agree that if any 'deviation / exception' is mentioned or noticed, our Bid may be rejected.

Place:

[Signature of Authorized Signatory of Bidder]

Date:

Name:

Designation:

Seal:



**F-7**

**DECLARATION REGARDING HOLIDAY/BANNING AND LIQUIDATION,  
COURT RECEIVERSHIP**

To,

Central UP Gas Limited,  
7<sup>th</sup> floor, UPSIDC complex  
A-1/4, Lakhanpur  
Kanpur-208024  
India

**Dear Sir,**

We hereby confirm that we are not on 'Holiday' by CUGL or banned by Government department/ Public Sector on due date of submission of bid.

We also confirm that we are not under any liquidation, court receivership or similar proceedings or 'bankruptcy'.

In case it comes to the notice of CUGL that the bidder has given wrong declaration in this regard, the same shall be dealt as 'fraudulent practices' and action shall be initiated as per provision of tender document.

Further, we also confirm that in case there is any change in status of the declaration prior to award of contract, the same will be promptly informed to CUGL by us.

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

**F-8**  
**CERTIFICATE FOR NON-INVOLVMENT OF GOVT. OF INDIA**

To,

Central UP Gas Limited,  
7<sup>th</sup> floor, UPSIDC complex  
A-1/4, Lakhanpur  
Kanpur-208024  
India

SUB:

TENDER NO:

**Dear Sir,**

If we become a successful Bidder and pursuant to the provisions of the Bidding Documents, award is given to us for the tender for “  
\_\_\_\_\_”, the following  
Certificate shall be automatically enforceable:

"We agree and acknowledge that the Employer is entering into the Agreement solely on its own behalf and not on behalf of any other person or entity. In particular, it is expressly understood & agreed that the Government of India is not a party to the Agreement and has no liabilities, obligations or rights thereunder. It is expressly understood and agreed that the Employer is authorized to enter into Agreement, solely on its own behalf under the applicable laws of India. We expressly agree, acknowledge and understand that the Employer is not an agent, representative or delegate of the Government of India. It is further understood and agreed that the Government of India is not and shall not be liable for any acts, omissions, commissions, breaches or other wrongs arising out of the Agreement. Accordingly, we hereby expressly waive, release and forego any and all actions or claims, including cross claims, VIP claims or counter claims against the Government of India arising out of the Agreement and covenants not to sue to Government of India as to any manner, claim, cause of action or things whatsoever arising of or under the Agreement."

Place:

[Signature of Authorized Signatory of Bidder] Date:

Name:

Designation:

Seal:

**F-9**  
**PROFORMA OF "BANK GUARANTEE" FOR "CONTRACT PERFORMANCE**  
**SECURITY / SECURITY DEPOSIT"**  
**(ON NON-JUDICIAL STAMP PAPER OF APPROPRIATE VALUE)**

To,  
Central UP Gas Limited,  
7<sup>th</sup> floor, UPSIDC complex  
A-1/4, Lakhanpur  
Kanpur-208024  
India  
PERFORMANCE GUARANTEE No.

**Dear Sir(s),**

M/s. \_\_\_\_\_  
having registered office at \_\_\_\_\_ (herein after called the "contractor"  
which expression shall wherever the context so require include its successors and assignees)  
have \_\_\_\_\_ been \_\_\_\_\_ awarded \_\_\_\_\_ the \_\_\_\_\_ work \_\_\_\_\_ of  
\_\_\_\_\_ vide LOA /FOA No.  
\_\_\_\_\_ dated \_\_\_\_\_ for Central U.P. Gas Limited, Kanpur

The Contract conditions provide that the CONTRACTOR shall pay a sum of Rs.  
\_\_\_\_\_ (Rupees \_\_\_\_\_) as  
full Contract Performance Guarantee in the form therein mentioned. The form of payment of  
Contract Performance Guarantee includes guarantee executed by Nationalized Bank,  
undertaking full responsibility to indemnify CUGL, in case of default.

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

1. We

\_\_\_\_\_ hereby undertake to give the irrevocable & unconditional guarantee to you that if  
default shall be made by M/s. \_\_\_\_\_ in  
performing any of the terms and conditions of the tender or in payment of any money  
payable to Central U.P. Gas Limited we shall on first demand pay without demur,  
contest, protest and/ or without any recourse to the contractor to you in such manner  
as you may direct the said amount of Rupees \_\_\_\_\_  
only or such portion thereof not exceeding the said sum as you may require from time  
to time.

2. You will have the full liberty without reference to us and without affecting this  
guarantee, postpone for any time or from time to time the exercise of any of the powers  
and rights conferred on you under the contract with the said  
\_\_\_\_\_ and to enforce or to forbear from

endorsing any powers or rights or by reason of time being given to the said \_\_\_\_\_ and such postponement forbearance would not have the effect of releasing the bank from its obligation under this debt.

3. Your right to recover the said sum of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) from us in manner aforesaid will not be affected or suspended by reason of the fact that any dispute or disputes have been raised by the said M/s. \_\_\_\_\_ and/or that any dispute or disputes are pending before any officer, tribunal or court and any demand made by you in the bank shall be conclusive and binding. The bank shall not be released of its obligations under these presents by any exercise by you of its liberty with reference to matter aforesaid or any of their or by reason or any other act of omission our commission on your part or any other indulgence shown by you or by any other matter or changed what so ever which under law would, but for this provision, have the effect of releasing the bank.
4. The guarantee herein contained shall not be determined or affected by the liquidation or winding up dissolution or changes of constitution or insolvency of the said contractor but shall in all respects and for all purposes be binding and operative until payment of all money due to you in respect of such liabilities is paid.
5. This guarantee shall be irrevocable and shall remain valid upto \_\_\_\_\_ (this date should be 90 days after the expiry of Warranty/Guarantee period) \_\_\_\_\_. The bank undertakes not to revoke this guarantee during its currency without your previous consent and further agrees that the guarantee. However, if for any reason, the contractor is unable to complete the work within the period stipulated in the contract and in case of extension of the date of completion resulting extension of defect liability period of the contractor fails to perform the work fully, the bank hereby agrees to further extend this guarantee at the instance of the contractor till such time as may be determined by the owner. If any further extension of this guarantee is required, the same shall be extended to such required period on receiving instruction from M/s. \_\_\_\_\_ (contractor) on whose behalf this guarantee is issued.
6. The Bank Guarantee's payment of an amount is payable on demand and in any case within 2 working days of the presentation of the letter of invocation of Bank Guarantee. Any dispute arising out of or in relation to the said Bank Guarantee shall be subject to the jurisdiction of KANPUR Courts.
7. Therefore, we hereby affirm that we are guarantors and responsible to you on behalf of the Contractor up to a total amount of \_\_\_\_\_ (amount of guarantees in words and figures) and we undertake to pay you, upon your first written demand declaring the Contractor to be in default under the contract and without caveat or argument, any sum or sums within the limits of (amounts of guarantee) as aforesaid,

without your needing to prove or show grounds or reasons for your demand or the sum specified therein.

8. We have power to issue this guarantee in your favor under Memorandum and Articles of Association and the undersigned has full power to do under the Power of Attorney, dated \_\_\_\_\_ granted to him by the Bank.

Yours faithfully,

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

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

---

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

1. The Bank Guarantee by successful Bidder(s) will be given on non-judicial stamp paper as per 'stamp duty' applicable. The non-judicial stamp paper should be in name of the issuing bank. In case of foreign bank, the said Bank Guarantee to be issued by its correspondent bank in India on requisite non-judicial stamp paper and place of Bid to be considered as Delhi.
2. The Bank Guarantee by Bidders will be given from bank as specified in Tender.
3. A letter from the issuing bank of the requisite Bank Guarantee confirming that said Bank Guarantee and all future communication relating to the Bank Guarantee shall be forwarded to Employer.
4. If a Bank Guarantee is issued by a commercial bank, then a letter to Employer and copy to Consultant (if applicable) confirming its net worth is more than Rs.

100,00,00,000.00 [Rupees One Hundred Crores] or its equivalent in foreign currency alongwith documentary evidence.

**F-10**  
**AGREED TERMS & CONDITIONS**

To,

Central UP Gas Limited,  
7<sup>th</sup> floor, UPSIDC complex  
A-1/4, Lakhanpur  
Kanpur-208024  
India

SUB:

TENDER NO:

This Questionnaire duly filled in, signed & stamped must form part of Bidder's Bid and should be returned along with Un-priced Bid. Clauses confirmed hereunder need not be repeated in the Bid.

<b>Sl.</b>	<b>DESCRIPTION</b>	<b>BIDDER'S CONFIRMATION</b>
1	Bidder's name and address	
2.	Please confirm the currency of quoted prices is in Indian Rupees.	
3.	Confirm quoted prices will remain firm and fixed till complete execution of the order.	
4	Rate of applicable Service Tax & Edu. Cess thereon	SEC----- Total %
5.	i) Confirm acceptance of relevant Terms of Payment specified in the Bid Document. ii) In case of delay, the bills shall be submitted after deducting the price reduction due to delay.	
6.	Confirm that Contract Performance Bank Guarantee will be furnished as per Bid Document.	
7.	Confirm that Contract Performance Bank Guarantee shall be from any Indian scheduled bank or a branch of an International bank situated in India and registered with Reserve bank of India as scheduled foreign bank. However, in case of bank guarantees from banks other than the Nationalised Indian banks, the bank must be a commercial bank having net worth in excess of Rs 100 crores and a declaration to this effect shall be made by such commercial bank either in the Bank Guarantee itself or separately on its letterhead.	
8.	Confirm compliance to Completion Schedule as specified in Bid document. Confirm contract period shall be reckoned from the date of Fax of Acceptance.	
9.	Confirm acceptance of Price Reduction Schedule for delay in completion schedule specified in Bid document.	
10.	a) Confirm acceptance of all terms and conditions of Bid Document (all sections). b) Confirm that printed terms and conditions of bidder are not applicable.	
11.	Confirm your offer is valid for 4 months from Final/Extended due date of opening of Techno-commercial Bids.	
12.	Please furnish EMD/Bid Security details : a) EMD/ Bid Security No. & date b) Value c) Validity	
13.	Confirm acceptance to all provisions of ITB	



<b>Sl.</b>	<b>DESCRIPTION</b>	<b>BIDDER'S CONFIRMATION</b>
14.	Confirm that Annual Reports for the last three financial years are furnished alongwith the Un-priced Bid.	
15.	Confirm that, in case of contradiction between the confirmations provided in this format and terms & conditions mentioned elsewhere in the offer, the confirmations given in this format shall prevail.	
16.	Confirm the none of Directors of bidder is a relative of any Director of Owner or the bidder is a firm in which any Director of Owner/ CUGL or his relative is a partner.	
17.	All correspondence must be in ENGLISH language only.	
18	Owner reserves the right to make any change in the terms & conditions of the TENDER/BIDDING DOCUMENT and to reject any or all bids.	
19	Confirm that all Bank charges associated with Bidder's Bank shall be borne by Bidder.	

Place:

[Signature of Authorized Signatory of Bidder]

Date:

Name:

Designation:

Seal:

**F-11**  
**ACKNOWLEDGEMENT CUM CONSENT LETTER**

**(On receipt of tender document/information regarding the tender, Bidder shall acknowledge the receipt and confirm his intention to bid or reason for non-participation against the enquiry /tender through e-mail/fax to concerned executive in CUGL issued the tender, by filling up the Format)**

To,

Central UP Gas Limited,  
7<sup>th</sup> floor, UPSIDC complex  
A-1/4, Lakhanpur  
Kanpur-208024  
India

SUB:

TENDER NO:

Dear Sir,

We hereby acknowledge receipt of a complete set of bidding document along with enclosures for subject item/job and/or the information regarding the subject tender.

We intend to bid as requested for the subject item/job and furnish following details with respect to our quoting office:

Postal Address with Pin Code	: .....
Telephone Number	: .....
Fax Number	: .....
Contact Person	: .....
E-mail Address	: .....
Mobile No.	: .....
Date	: .....
Seal/Stamp	: .....

We are unable to bid for the reason given below:

Reasons for non-submission of bid:

Agency's Name	: .....
Signature	: .....
Name	: .....
Designation	: .....
Date	: .....
Seal/Stamp	: .....

---

**F-12**  
**UNDERTAKING ON LETTERHEAD**

To,

Central UP Gas Limited,  
7<sup>th</sup> floor, UPSIDC complex  
A-1/4, Lakhanpur  
Kanpur-208024  
India

SUB:

TENDER NO:

Dear Sir

We hereby confirm that “The contents of this Tender Document No. \_\_\_\_\_ have not been modified or altered by M/s. ....( Name of the bidder with complete address). In case, it is found that the tender document has been modified / altered by the bidder, the bid submitted by M/s.....(Name of the bidder) shall be liable for rejection”.

Place:

Date:

[Signature of Authorized Signatory of Bidder]

Name:

Designation:

Seal:

**F-13**  
**BIDDER'S EXPERIENCE**

To,

Central UP Gas Limited,  
7<sup>th</sup> floor, UPSIDC complex  
A-1/4, Lakhanpur  
Kanpur-208024  
India

SUB:

TENDER NO:

Sl. No	Description of the Services	LOA /WO No. and date	Full Address & phone nos. of Client. <i>Name, designation and address of Engineer/ Officer-in-Charge (for cases other than purchase)</i>	Postal & of	Value of Contract/ Order ( <i>Specify Currency Amount</i> )	Date of Commence ment of Services	Scheduled Completion Time (Months)	Date of Actual Completion	Reasons for delay in execution, if any
(1)	(2)	(3)	(5)	(6)	(7)	(8)	(9)	(10)	

Place:

Date:

[Signature of Authorized Signatory of Bidder]

Name:

Designation:

Seal:

**F-14**  
**CHECK LIST**

Bidders are requested to duly fill in the checklist. This checklist gives only certain important items to facilitate the bidder to make sure that the necessary data/information as called for in the bid document has been submitted by them along with their offer. This, however, does not relieve the bidder of his responsibilities to make sure that his offer is otherwise complete in all

respects.

Please ensure compliance and tick (✓) against following points:

<b>S. No.</b>	<b>DESCRIPTION</b>	<b>CHECK BOX</b>	<b>REFERENCE PAGE NO. OF THE BID SUBMITTED</b>
1.0	on each sheet of offer, original bidding document including SCC, ITB, GCC ,SOR drawings, addendum (if any)		
2.0	Confirm that the following details have been submitted in the Un-priced part of the bid		
i	Covering Letter, Letter of Submission		
ii	Bid Security		
iii	Signed and stamped original copy of bidding document along with drawings and addendum (if any)		
iv	Power of Attorney in the name of person signing the bid.		
v	Copies of documents defining constitution or legal status, place of registration and principal place of business of the company		
vi	Bidders declaration that regarding, Holiday/ Banning, liquidation court receivership or similar proceedings		
vii	Details and documentary proof required against qualification criteria along with complete documents establishing ownership of equipment as per SCC are enclosed		
viii	Confirm submission of document alongwith techno-commercial bid as per bid requirement.		
3.0	Confirm that all forms duly filled in are enclosed with the bid duly signed by authorised person(s)		
4.0	Confirm that the price part as per Price Schedule format submitted with Bidding Document.		
7.0	Confirm that annual reports for last three financial years & duly filled in Form 16 are enclosed in the offer for financial assessment (where financial criteria of BEC is applicable).		

Place:

Date:

[Signature of Authorized Signatory of Bidder]

Name:

Designation:

Seal:



**(TO BE INCLUDED ONLY WHERE FINANCIAL CRITERIA OF BEC IS APPLICABLE)**

**F-15**

**FORMAT FOR CERTIFICATE FROM BANK  
IF BIDDER'S WORKING CAPITAL IS INADEQUATE**

(To be provided on Bank's letter head)

Date:

To,

Central UP Gas Limited,

7<sup>th</sup> floor, UPSIDC complex

A-1/4, Lakhanpur

Kanpur-208024

India

Dear Sir,

This is to certify that M/s ..... (name of the bidder with address) (hereinafter referred to as Customer) is an existing customer of our Bank.

The Customer has informed that they wish to bid for CUGL's RFQ/Tender no. .... dated ..... for ..... (Name of the supply/work/services/consultancy) and as per the terms of the said RFQ/Tender they have to furnish a certificate from their Bank confirming the availability of line of credit.

Accordingly M/s ..... (name of the Bank with address) confirms availability of line of credit to M/s ..... (name of the bidder) for at least an amount of Rs. \_\_\_\_\_

It is also confirmed that the net worth of the Bank is more than Rs. 100 Crores (or Equivalent USD) and the undersigned is authorized to issue this certificate.

Yours truly,

for ..... (Name & address of Bank)

(Authorized signatory)

Name of the signatory :

Designation :

Stamp

**F-16**  
**FORMAT FOR FINANCIAL CAPABILITY OF THE BIDDER**

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

Year	Amount (Currency)
Year 1:	
Year 2:	
Year 3:	

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

Description	Year _____
	Amount (Currency)
1. Current Assets	
2. Current Liabilities	
3. Working Capital (Current Assets-Current liabilities)	
4. Net Worth (Paid up share capital and Free Reserves & Surplus)	

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

**Instructions:**

1. The financial year would be the same as one normally followed by the bidder for its Annual Report.
2. The bidder shall provide the audited annual financial statements as required for this Tender document. Failure to do so would result in the Proposal being considered as non responsive.
3. For the purpose of this Tender document, (i) Annual Turnover shall be “Sale value/ Operating Income” (ii) Working Capital shall be “Current Assets less Current liabilities” and (iii) Net Worth shall be “Paid up share capital and Free Reserves & Surplus”

**F-17**

**BIDDER'S QUERIES FOR PRE BID MEETING**

To,  
Central UP Gas Limited,  
7<sup>th</sup> floor, UPSIDC complex  
A-1/4, Lakhanpur  
Kanpur-208024  
India

Sub :  
Tender No :

S L. NO.	REFERENCE OF BIDDING DOCUMENT				BIDDER'S QUERY	CUGL 'S REPLY
	SEC. NO.	Page No.	Clause No.	Subje ct		

**NOTE: The Pre-Bid Queries may be sent by fax and also by e-mail before due date for receipt of Bidder's queries.**

**SIGNATURE OF BIDDER:** \_\_\_\_\_

**NAME OF BIDDER** : \_\_\_\_\_

Date

**CA CERTIFICATE FORMAT FOR MSE**

**TO WHOMSOEVER IT MAY CONCERN**

This is to Certify that M/s ----- (Company Name) having its registered office at ----- ( Address) is registered under MSMED Act 2006 . Entrepreneur Memorandum No. (Part-II) ----- dated ----- Category: -----( Whether Micro or Small).

Further verified from the Books of Accounts that the investment of the company as per last Audited Balance Sheet is as follows:

Investment in Plant and Machinery Rs. ----- ( Lakhs)

The above Investment of Rs. ----- Lacs is within permissible limit of Rs. ----- Lacs for ----- (Micro or Small) Category under MSMED Act, 2006. Also, M/s ----- (Company Name) have not exceeded the monetary limit criteria mentioned in the NSIC Certificate.

*The above format shall be printed on CA's letter head, filled, signed and stamped by a practicing Chartered Accountant (not being an employee or a Director or not having any interest in the bidder's company/firm) where audited accounts are not mandatory as per law. The certificate should not older than 03 months from the bid due date.*

# **TECHNICAL SPECIFICATIONS**

## **SECTION-VII**

<b>TABLE OF CONTENTS</b> <b>SUPPLY OF COMMERCIAL GAS METERS INTEGRATED AMR MIU AND DATA HOSTING AND SERVICES FOR 5 YEAR</b>				
<b>Sr. No.</b>	<b>Description</b>	<b>Rev. No.</b>	<b>Pages</b>	<b>Page No.</b>
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1.1	ANNEXURE-1	0	1	9 of 42
2	STANDARD SPECIFICATIONS of commercial Gas Meter with AMR	0	15	10-24 of 42
3	INSTRUMENT DATASHEETS	0	8	25-32 of 42
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**MATERIAL REQUISITION**

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2. REMARKS / COMMENTS ..... 5

3. LIST OF ATTACHMENTS ..... .5

4. DOCUMENTS & DATA REQUIREMENTS .....6

## 1. DESCRIPTION OF GOODS AND / OR SERVICES

The scope of work shall cover design, engineering, manufacturing, testing, inspection, preparation for shipment and transportation of the Gas Meters, EVC with inbuilt AMR, Data hosting and associated services for 5 years as per technical requirements/specification for City Gas Distribution project in Kanpur, Unnao, Bareilly & Jhansi.

S.NO	DESCRIPTION	QUANTITY	REMARKS
<b>GROUP A – Diaphragm Gas Meters with AMR/Smart Meter</b>			
1.	Gas Meter, G - 4, 6 m3/hr	20 Nos.	
2.	Gas Meter, G - 6, 10 m3/hr	20 Nos.	
3.	Gas Meter, G - 10, 16 m3/hr	45 Nos.	
4.	Gas Meter, G - 16, 25 m3/hr	15 Nos.	
<b>GROUP B – RPD Gas Meters with EVC and AMR</b>			
1.	Gas Meter, G - 10, 16 m3/hr	1 Nos.	
2.	Gas Meter, G - 16, 25 m3/hr	12 Nos.	
3.	Gas Meter, G - 25, 40 m3/hr	14 Nos.	
4.	Gas Meter, G - 40, 65 m3/hr	16 Nos.	
5.	Gas Meter, G - 65, 100 m3/hr	3 Nos.	
6.	Gas Meter, G - 160, 250 m3/hr	2 Nos.	
7.	Gas Meter, G - 250, 400 m3/hr	1 Nos.	
8.	Gas Meter, G - 400, 650 m3/hr	1 Nos.	

### NOTES:

- Accessories for Meter shall be supplied as specified in the Specifications attached with the material requisition.
- Detail scope of data hosting services shall be as per the attached Service Agreement.
- Commissioning and data hosting services cost to be included in the meter supply cost. No separate cost is envisaged for commissioning and data hosting services.
- Bidder has to quote full quantity of quoted item mentioned above; partial quotation for the item shall be liable to rejection.



## 2. REMARKS / COMMENTS

### 2.1 Supplier's Compliance

Supplier shall submit his bid in full compliance with the requirements of this MR and attachments.

Bidder shall include the following statement in his bid:

*We certify that our bid is fully complying with your enquiry dated .....and referenced .....,*  
Compliance with this Material Requisition in any instance shall not relieve the Vendor of his responsibility to meet the specified performance.

### 2.2 Compliance with Specification

The supplier shall be completely responsible for the design, materials, fabrication, testing, and Inspection, preparation for shipment & transfer of above material to nominated delivery point strictly in accordance with the MR & all attachments thereato.

### 2.3 Supplier's Scope

Supplier's scope of work includes the equipment with all internals & accessories shown on the data sheets, specifications, and all parts necessary for a satisfactory operation & testing except those which are indicated to be out of Supplier's supply.

### 2.4 Applicable Documents

General descriptions, requirements and information are listed in Annexure "C" of this Material Requisition.

### 2.5 Supplier's Documents

Supplier shall supply the documentation as listed under this Material Requisition.

All documents shall be supplied in English language.

## 3. LIST OF ATTACHMENTS

The table below lists the documents which are integral part of this Material Requisition. The applicable revision index of each document is mentioned in the column below the current Material Requisition revision index.

When the Material Requisition revision index is "A" or "1", all listed documents are attached. For other Material Requisition revision index, only modified or new documents are attached.

## 4. DOCUMENTS & DATA REQUIREMENTS

1. The table hereunder specifies the quantities & nature of the documents to be submitted by the Supplier to the Company.
2. The documents required at the inquiry stage to be included in the bid are listed under column A.

3. Any document even when preliminary shall be binding and therefore duly identified & signed by the Supplier. It shall bear the Company's project reference, the MR number and identification number.
4. The documents are fully part of the Supply which shall be complete only if and when the document complying fully with the material requisition requirements received by the Engineer.

Item	Documents and Data	A
		Number of copies
1.	Data sheet, technical specifications, catalogue, sizing calculations etc. of the offered model	1
2.	Detail GA Drawing, of the offered model (commercial meter)	1
3.	Pressure drop calculations, pressure drop curve, accuracy/error curve etc.	1
4.	Code compliance certificates	1
5.	Detailed QA/QC program	1
6.	Inspection and test procedures	1
7.	Type approval from weights & measures	1
8.	ATEX approval certificates	1
9.	No deviation certificate	1
10.	Copy of the tender document duly signed and stamped	1

**NOTES:**

1. Final technical file shall be supplied in hard copy as indicated.

2. The selected Vendor shall provide Calibration certificates of each meter.

ANNEXURE-I SERIAL NUMBERING FORMAT FOR METERS															
FIRST 3 ALPHABETS OF VENDOR			ITEM SERIAL NUMBER (FROM MANUFACTURER)									MONTH & YEAR OF MANUFACTURE			
A	B	C	1	2	3	4	5	6	7	8	/	M	M	Y	Y
EXAMPLE															
I	T	R	12345678								/	0	7	1	5
<div>ITRON – ITR RAYCHEM - RAY INEL – INE</div>															

## STANDARD SPECIFICATION FOR Commercial Gas Meter with AMR

ABBREVIATION

AMR	Automatic Meter Reading
ATEX	Atmospheres Explosibles
ANSI	American National Standards Institute
EVC	Electronic Volume Corrector
FAT	Factory acceptance Test
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
MAOP	Maximum Allowable Operating Pressure
MIU	Meter Interface Unit
NACE	National Association of Corrosion Engineers
NPT	Nominal Pipe Thread
NRV	Non Return Valve
OEM	Original Equipment Manufacturer
PNGRB	Petroleum and Natural Gas Regulatory Board
RF	Radio Frequency
RO	Restriction Orifice
SAT	Site Acceptance Test
SS	Stainless Steel
TPIA	Third Party Inspection Agency
WPC	Wireless Planning & Coordination Wing

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## 1.0 SCOPE

This Standard Specification, together with the data sheets attached herewith, establishes the minimum technical and functional requirements for design, engineering, materials, fabrication, painting, inspection and testing, documentation, marking, packing and shipping of gas meters used in commercial and industrial applications in CGD industry.

## 2.0 DEFINITIONS

For the purpose of this document, the words and expressions listed below shall have the meanings assigned to them as follows:

Agreement	Designates the agreement concluded between the Client and the Contractor, under which the latter undertakes to the former the Goods and/or Services according to the stipulations which are agreed and specified in the form of an order.
Client	Designates the purchaser of the Goods and/or Services, which are the subject of the agreement.
Contractor / Supplier	Designates the individual or legal entity with whom the order has been concluded by the Client. The term "Contractor / Supplier" may be used indifferently for a supplier, a manufacturer, an erection Contractor / Supplier, etc.
Days-Weeks-Months	Specify the number of calendar days, weeks or months and not of working days, weeks or months.
Client's Representative	Designates the individual or legal entity to which the Client has entrusted various tasks in relation with the carrying out of his Project.
Goods and / or Services	Designate, depending on the case, all or part of the drawings or documents, substances, materials, materiel, equipment, structures, plant, tools, machinery, to be studied, designed, manufactured, supplied by the Contractor / Supplier under the agreement, including all the studies, tasks, works and services specified by the order. The Terms Goods or Services may be indifferently used one for the other as required by the context.
Project	Designates the aggregate of Goods and/or Services to be provided by one or more Contractor / Supplier.

### 3.0 REFERENCE DOCUMENTS

#### 3.1 Codes & Standards

The related standards referred to herein and mentioned below shall be of the latest editions prior to the date of the Purchaser's enquiry.

EN 1359 + A1 Latest	Gas Meters - Diaphragm Meters
OIML R137	Gas Meters
ATEX	94/9/EC Directive
EN 12480	Gas meters - Rotary Displacement Gas Meters
AGA Report No.7	Measurement of Natural Gas by Turbine Meters
AGA Report No.8	Compressibility factor of Natural Gas and other related Hydrocarbon gases
ISO 27001	Information security standards
BS 4161	Specification for diaphragm meters of 6 cubic meters
IEC 60529	Degree of Protection Provided by Enclosures (IP Code)
ASME B1.20.1	Pipe Threads, General Purpose (Inch)
ASME B16.5	Pipe Flanges and Flanged Fittings
EN12405-1 + A1	Electronic Volume Calculator
IEC 60529	Degree of Protection Provided by Enclosures (IP Code)
IEC 60079	Electrical apparatus for explosive gas atmospheres
PNGRB T4S	PNGRB Technical Standards and Specifications

#### 3.2 Order of Precedence

In the event of conflict between specifications, data sheets, related standards, codes etc., and the order of precedence shall be as follows:

- a. Material Requisition;
- b. Data sheets;
- c. Job Specifications;
- d. Standard Specifications;
- e. Codes and Standards.

Vendor shall refer the matter to the Purchaser for clarification and only after obtaining the approval in writing, the same should proceed with the manufacture of the items in question.

## **4.0 DESIGN CRITERIA**

### **4.1 General**

All gas meters shall be designed for continuous operation in the given site conditions with the following design criteria:

- Ease of operation and maintenance;
- Suitability for applicable environmental conditions;
- Suitability for operation in the designated classification of hazardous areas;
- State of art proven technology and instrumentation;
- Safety to operating and maintenance personnel;
- Safety to connected equipment;
- High Redundancy with high reliability (high MTBF and low MTTR) and no single point of failure;
- Minimum cost of ownership.

### **4.2 Environmental Conditions**

The equipment considered and the complete installation shall be suitable for continuous operation under the ambient conditions prevailing at site.

### **4.3 EMC Compliance**

All gas meters and accessories shall be immune to Radio Frequency Interference (RFI) and Electro Magnetic Interference (EMI). The design and installation of all electrical / electronic equipment shall meet the RFI/EMI requirements according to IEC 61000, emission (IEC61000-6-4) and immunity (IEC-61000-6-2) requirements for an industrial environment.

### **4.4 Hazardous Area Certification**

Gas meters shall be certified for use in designated areas when installed in hazardous area classified zones as per IEC 60079.

### **4.5 Ingress Protection**

Gas meters shall have ingress protection to IP 54 or better in accordance with IEC 60529.

## **5.0 TECHNICAL REQUIREMENTS**

Gas meters shall be installed at commercial and industrial applications in order to meter the gas consumed by the Customers. Gas meter type shall be decided based on flow capacity, pressure rating and accuracy requirements. These meters shall be designed to operate on clean and dry natural gas.

This document specifies all types of gas meters used for commercial and industrial applications in CGD industry. However, the exact requirement shall be as defined in Material Requisition and Datasheets.



## 5.1 Diaphragm Meter

Diaphragm meter shall be suitable for measurement of low gas flows in domestic and light commercial metering applications.

Diaphragm meter shall be designed in accordance to EN 1359:1999 + A1 Amendment 2006 or latest and shall be suitable for outdoor / indoor installations, tamper proof and corrosion resistance for a life period of 10 years.

Diaphragm meters fall into the positive displacement category as they have well defined measurement compartments that alternately fill and empty as the meter reciprocates or rotates. The meter will indicate volumetric flow based on the gear ratio, number of revolutions and fixed volume displaced in each meter revolution.

Diaphragm meter shall have an accuracy class of 1.5 and rangeability of 150:1 or better. Pressure drop across the meter shall be less than 2 mbar at  $Q_{max}$ .

Ingress protection of meter shall be IP 54 or better.

Material of construction of meter shall be steel with suitable coating on inside and outside for corrosion protection of casing. Diaphragm material shall be polyester fabric coated with rubber for an endurance life cycle of 80,000 cum. Meter shall be in accordance with EN 1359.

Diaphragm meter shall have 8 digit mechanical index (As per EN1359 – Units in  $m^3$ ). Index shall be provided with sealing arrangement to avoid tampering.

Back-run stop is to be provided to prevent the meter from running backwards in case of tampering or back flow condition. Transmission system shall be tamperproof non- magnetic with transmission rate of  $0.01 m^3 /$  rotation for G4 & G6 and  $0.10 m^3 /$  rotation for G10 - G25.

Meter shall be provided with a device in the outlet to prevent reverse flow. Over flow protection device (Restriction Orifice) shall be provided at the downstream of meter. Material of construction of restriction orifice shall be PTFE and shall be suitable for natural gas application.

Vendor shall provide brass adaptor with 1" inlet / outlet connection. Washer shall be of PTFE material of construction and provided along with restriction orifice.

The end connection of the meters shall be protected with plastic caps. In case of flange ends, companion flanges with bolts shall be provided in each end. In case the end connections of the meters proposed by the Vendor is not in line with the end connections mentioned in the data sheets, the Vendor shall supply suitable adaptors to suit the desired end connections. Companion flanges with bolts if supplied shall be enclosed within the meter packing box.

Vendor to provide the type approval certification for meter as per EN 1359 and certification from Weights & Measures Department, India with Model & Make details included. Calibration certificate (original + soft copy) shall be provided to Client. One copy of the certificate shall be provided within the packing box of each meter. Diaphragm meter shall be provided with Automatic Meter Reading (AMR) and either integral or external Electronic Volume Corrector (EVC). Refer meter and EVC datasheet for exact specifications.

## 5.2 Thermal Mass Meter

Thermal mass meter shall be suitable for measurement of low gas flows in commercial and light industrial metering applications.

Thermal mass flow meter offers high sensitivity at low flow rates, high reliability due to no moving parts, high accuracy, high turndown ratio and easy installation. However, the suitability of thermal mass flow meter with the fluid measured is to be checked prior to usage of this meter.

Thermal mass flow meter shall be designed in accordance to latest version of OIML R137 and ISO 14511 and shall be suitable for outdoor / indoor installations, tamper proof and corrosion resistance for a life period of 10 years.

Thermal mass flow meter measures gas mass flow directly without need for pressure and temperature correction.

These meters measure the amount of heat transfer between two temperature sensors placed symmetrically in a heated flow sensor. The amount of heat transfer is directly proportional to mass flow rate.

The amount of power in the form of heat to the sensor shall be very low, permitting the use of this technology in natural gas and flammable gas applications.

Thermal mass meter shall have an accuracy class of 1.5 and rangeability of 150:1 or better. Pressure drop across the meter shall be less than 2 mbar at  $Q_{max}$ .

Material of construction of meter shall be steel with suitable coating on inside and outside for corrosion protection of casing. Sensor material of construction shall be in accordance with OIML R137.

Ingress protection of meter shall be IP 54 or better. Meter shall be provided with integral LCD digital display.

Thermal mass flow meters shall be tamper proof and shall provide all diagnostic information to end user.

The end connection of the meters shall be protected with plastic caps. In case of flange ends, companion flanges with bolts shall be provided in each end. In case the end connections of the meters proposed by the Vendor is not in line with the end connections mentioned in the data sheets, the Vendor shall supply suitable adaptors to suit the desired end connections. Companion flanges with bolts if supplied shall be enclosed within the meter packing box.

Vendor to provide the type approval certification for meter as per OIML R137 and certification from Weights & Measures Department, India with Model & Make details included. Calibration certificate (original + soft copy) shall be provided to Client. One copy of the certificate shall be provided within the packing box of each meter.

Thermal mass meter shall be provided with in-built Automatic Meter Reading (AMR) with encrypted communication capability via all available technologies except RF technology and integral antenna.

Driver software and communication cable is to be submitted with each meter.

Suitable communication protocol adaptor with 2.5 meters of communication cable along with driver software to communicate with Meter compatible for Windows7 and Windows10 based laptops shall be supplied with each meter with USB port.

Meter shall be powered by lithium-ion battery. The life of battery shall be optimum with respect to the performance and communication capability of the meter.

Refer EVC Datasheet for detailed specifications.

### **5.3 Ultrasonic Meter**

Ultrasonic meter shall be suitable for measurement of low gas flows in commercial and light industrial metering applications.

Ultrasonic flow meter offers excellent sensitivity at low flow rates, high reliability due to no moving parts, high accuracy, high turndown ratio and easy installation. However, the suitability of ultrasonic flow meter with the fluid measured is to be checked prior to usage of this meter.

Ultrasonic meter shall be designed in accordance to latest version of OIML R137 and shall be suitable for outdoor / indoor installations, tamper proof and corrosion resistance for a life period of 10 years.

Ultrasonic gas meter shall be based on single path ultrasonic sensors. The meter shall be configurable to provide temperature and fixed factor pressure conversion on the measured gas volume.

Temperature and pressure in line shall be measured by sensors located within the gas meter in order to obtain converted volume. Fixed factor pressure conversion shall not be allowed.

The measuring element shall comprise of a flow tube fitted between an inlet chamber and outlet chamber. One ultrasonic transducer shall be fitted on the upstream and one on the downstream end of the flow tube.

Material of construction of meter casing shall be either steel or die-cast aluminium with suitable coating on inside and outside for corrosion protection of casing. Sensor material of construction shall be in accordance with OIML R137.

Ingress protection of meter shall be IP 54 or better. Meter shall be provided with integral LCD digital display.

Ultrasonic flow meters shall be tamper proof and shall provide all diagnostic information to end user.

The end connection of the meters shall be protected with plastic caps. In case of flange ends, companion flanges with bolts shall be provided in each end. In case the end connections of the meters proposed by the Vendor is not in line with the end connections mentioned in the data sheets, the Vendor shall supply suitable adaptors to suit the desired end connections. Companion flanges with bolts if supplied shall be enclosed within the meter packing box.

Meter shall be powered by lithium-ion battery. The life of battery shall be optimum with respect to the metrological performance of the meter.

Vendor to provide the type approval certification for meter as per OIML R137 and certification from Weights & Measures Department, India with Model & Make details included. Calibration certificate (original + soft copy) shall be provided to Client. One copy of the certificate shall be provided within the packing box of each meter.

The gas meter shall provide a pulse output interface to external monitoring device such as automatic meter reading unit to transmit gas volume flow rate information.

Ultrasonic meter shall have provision to integrate with Automatic Meter Reading (AMR) and either integral or external Electronic Volume Corrector (EVC), with encrypted communication capability via various communication options.

Driver software and communication cable is to be submitted with each meter.

Suitable communication protocol adaptor with 2.5 meters of communication cable along with driver software to communicate with Meter compatible for Windows7 and Windows10 based laptops shall be supplied with each meter with USB port.

AMR and EVC shall be powered by lithium-ion battery. The life of battery shall be optimum with respect to the performance and communication capability of the AMR.

Refer EVC Datasheet for detailed specifications.

#### **5.4 RPD Meter**

The in line Positive Displacement Meters (PD meters) with its associated systems shall be designed for natural gas flow measurement required for both custody transfer and non-custody transfer applications. And it shall be field proven and no prototype shall be offered.

RPD meter shall be designed in accordance to EN 12480 or latest and shall be suitable for outdoor / indoor installations, tamper proof and corrosion resistance for a life period of 10 years.

Positive Displacement flow meters measure the volume or flow rate of a moving fluid or gas by dividing the media into fixed, metered volumes. These devices consist of a chamber that obstructs the media flow and a rotating or reciprocating mechanism that allows the passage of fixed-volume amounts. The number of parcels that pass through the chamber determines the media volume. The rate of revolution or reciprocation determines the flow rate.

There are two basic types of positive displacement flow meters. Sensor-only systems or transducers are switch-like devices that provide outputs for processors, controllers, or data acquisition systems. Complete sensor systems provide additional capabilities such as an integral display and/or user interface. For both types of positive displacement flow meters, performance specifications include operating pressure, temperature range, maximum material density, connection size, and percent accuracy. Suppliers shall indicate whether devices are designed to move fluid or gas.

RPD meter shall have an accuracy of  $\pm 2\%$  in  $Q_{min}$  to  $0.1 Q_{max}$  and  $\pm 1\%$  in  $0.1 Q_{max}$  to  $Q_{max}$ . Rangeability shall be 100:1 or better.

Material of construction of meter casing shall be either steel or die-cast aluminium with suitable coating on inside and outside for corrosion protection of casing. Meters

internal parts material of construction shall be SS/ aluminium alloy. RPD meter shall be tamper proof. Ingress protection of meter shall be IP 65 or better.

There are several metering technologies for Positive Displacement Flow Meters. Gear meters have two rotating gears with synchronized, close-fitting teeth. Oval, spur and helical gears are often used because shaft rotation can be monitored to obtain specific flow rates.

Typically, the frequency is proportional to the material velocity. Nutating disc meters use media pressure to rock a disc in a circulating path without causing the disc to rotate about its own axis. A pin that extends from the disc is connected to a counter that monitors the disc's rocking motions. Meters that measure incremental volumes of flow with a piston are also available.

The straight length (if required) of calibrated pipe forming the upstream and downstream parts of the meter tubes shall be cut from one piece of pipe without any intermediate girth weld.

Meters shall be marked with the direction of the flow on the meter and the marking shall be clearly visible.

The meters design shall also ensure protection against damage due to hydraulic shock which may be caused by quick opening / closing of upstream / downstream valves.

Temperature and pressure in line shall be measured by sensors located within the meter in order to obtain converted volume. Meter shall be provided with temperature tapping (1 No.) with SS316 Thermowell of size 1/4 "NPTF and suitable fittings to fix the RTD. Bore diameter of thermowell shall be suitable for 6 mm RTD probe insertion. Pressure sensor tapping (1 No.) shall be 1/4 "NPTF.

Meter shall be provided with non-return valve (NRV) and restriction orifice (RO) in order to prevent reverse rotation and meter over run. Pressure drop across NRV, RO and meter shall be calculated by Vendor. Over flow protection shall be 20% of maximum flow.

Vendor to provide the type approval certification for meter as per OIML R137 and certification from Weights & Measures Department, India with Model & Make details included. Calibration certificate (original + soft copy) shall be provided to Client. One copy of the certificate shall be provided within the packing box of each meter.

RPD meter shall provide a pulse output interface to external monitoring device such as automatic meter reading unit to transmit gas volume flow rate information.

RPD meter shall have provision to integrate with Automatic Meter Reading (AMR) and either integral or external Electronic Volume Corrector (EVC), with encrypted communication capability via various communication options.

Driver software and communication cable is to be submitted with each meter.

Suitable communication protocol adaptor with 2.5 meters of communication cable along with driver software to communicate with Meter compatible for Windows7 and Windows10 based laptops shall be supplied with each meter with USB port.

AMR and EVC shall be powered by lithium-ion battery. The life of battery shall be optimum with respect to the performance and communication capability of the AMR.

Refer EVC Datasheet for detailed specifications.

#### **5.4.1 Non Return Valve and Restriction Orifice**

Non return valve (NRV) shall be swing type check valve and shall be provided downstream of RPD meter in order to prevent meter reverse rotation. Check valve shall be suitable for natural gas application.

Check valve size, pressure rating and end connections shall be in accordance with the meter supplied. Valve accessories such as carbon steel companion flanges and spare gaskets shall be provided by Vendor.

Maximum allowable pressure drop across the valve shall be 50 mbar.

Material of construction (MOC) of body, cover and hinge shall be ASTM A216 Gr.WCB or equivalent. MOC of disc, seat and hinge pin shall be Alloy 20/ SS316 and gasket shall be PTFE.

Restriction orifice (RO) shall be provided between meter and NRV in order to prevent meter over run. Material of construction (MOC) of RO shall be SS 316.

#### **5.5 Automatic Meter Reading and Electronic Volume Corrector (EVC)**

The AMR system of each meter shall be supplied with integral / external EVC, all available technologies except RF technology to record gas consumption and diagnostics from the meters. The meter reading data collected through AMR system shall be uploaded to Bidder's cloud server.

Electronic Volume Corrector (EVC) with built-in pressure and temperature sensors shall be used to convert measured gas volume from operating conditions to reference pressure and temperature conditions.

Electronic Volume Corrector (EVC) with integral battery, modem and data logging capability shall be provided with gas meter.

Vendor shall supply the EVC installed on the suitable mounting frame / arrangement as per CUGL site requirements. Pressure inputs shall be connected using suitable SS tube fitting and the other end of the tubing will be terminated in a 2-way manifold valve.

Driver software and communication cable is to be submitted with each meter.

Suitable communication protocol adaptor with 2.5 meters of communication cable along with driver software to communicate with Meter compatible for Windows7 and Windows10 based laptops shall be supplied with each meter with USB port.

Bidder to ensure compatibility of gas meter, EVC and modem and their performance shall be demonstrated in presence of Client.

Gas meters along with EVC & Modem shall be commissioned in presence of meter supplier service engineer only. Bidder shall ensure his presence at time of commissioning and shall include all cost in their rates. Bidder will ensure presence of their representative for technical assistance during commissioning of skid and no extra cost will be payable to Bidder.

Bidder shall supply software for remote data monitoring through GSM modem. The software shall be installed in CUGLoffice / control room and actual performance of

software for remote data monitoring shall be carried out by Bidder. All necessary arrangement required to perform software operation shall be done by Bidder at no extra cost.

The SIM cards shall be supplied by the Bidder providing service for five years. Monthly charges of the SIM shall be included in supply.

For Data Hosting details, refer attached “Data Hosting and Service Agreement”. Refer EVC data sheet for detail requirements of volume correction.

## **5.6 Materials**

All the wetted parts including actuating mechanism shall be suitable for the fluid being handled. Material of construction of meter casing shall be either steel or die-cast aluminium with suitable coating on inside and outside for corrosion protection of casing in line with the applicable governing standards.

In case of diaphragm meters, diaphragm material shall be polyester fabric coated with rubber for an endurance life cycle of 80,000 cum. Other Internal parts shall be non – metallic to prevent from tampering like magnet.

Vendor shall use suitable material parts, provide proper surface finish, hardness and clearances, wherever possibilities of galling exists.

For corrosion service, the material selected shall be in compliance with the requirements of NACE MR-0175 / ISO-15156 latest editions.

## **5.7 Name plate**

Each gas meter shall be marked in legible characters, which are permanently visible in accordance with BS EN 1359 / OIML R137 or latest:

- a. Type approval mark and number;
- b. Manufacturer’s name and Identification Mark;
- c. Serial Number, Model Name and Model Number;
- d. Flow Rate – Max (Qmax) & Min (Qmin) - (m<sup>3</sup>/h);
- e. Maximum Working Pressure pmax (bar);
- f. Flow Direction;
- g. Nominal value of the cyclic volume, V (dm<sup>3</sup>);
- h. Number and date of EN Standard;
- i. Ambient temperature range (°C);
- j. Gas temperature range (°C);
- k. Accuracy class of the meter, e.g. Class 1.5;
- l. Month & Year of Manufacture.

Type approval number shall be issued by Department of Legal Metrology (W&M) (Government of India). ATEX Marking shall be as per directive 94/9/EC on the electrical / electronic device or module certified.

Owner unique serial number shall be marked on the meter as per the standard procedure followed by Owner, which will be communicated to the successful bidder.

## 6.0 FABRICATION AND PAINTING

Vendor shall obtain approval in writing from the Purchaser before start of fabrication of diaphragm meter. Vendor shall submit the required Specification, drawings & documents for approval. Also Vendor shall refer the relevant codes and standards for manufacturing herein.

Painting shall be such that there is no rust formation on the Meter when exposed continuously to the corrosive atmosphere. All carbon steel bolting shall be hot dip galvanized or cadmium plated and bi-chromated.

Aluminum components shall be anodized then coated with epoxy paint.

The Supplier's painting standard will be considered as an alternative offer provided it meets or exceeds the preceding requirements.

## 7.0 INSPECTION AND TESTING

Vendor shall perform all inspection and testing as per project specification requirements and as per relevant codes, prior to shipment. The inspection and testing for diaphragm meters shall be carried out as per approved Inspection and Test Plan (ITP).

Vendor shall submit the Inspection and Testing Plan for proprietary items / special items for approval. Vendor shall submit the test certificates to the Company for the tests conducted during the manufacturing process hazardous area certification test and calibration test.

For any control, test or examination required under the supervision of TPIA / Owner / Owner's representative later shall be informed in writing one (1) week in advance by vendor about inspection date and place along with production schedule.

The Supplier shall provide calibration certificate and accuracy at MAOP of the diaphragm meter for the following flow rates:

$Q_{MIN}$

$0.1Q_{MAX}$

$Q_{MAX}$

Owner will provide Third Party Inspection Agency to perform inspection work for location in India only. For foreign country inspection, supplier shall hire own approved third party for inspection and submit the inspection reports to owner for approval. This agency shall inspect all the equipment/material and issue all inspection certificates/reports as per specifications and codes.

Supplier shall furnish all the material test certificates, proof of approval/ license from specified authority as per specified standard, if relevant, internal test/ inspection reports, accuracy test report for individual meter, as per technical specification and specified code for 100% material, at the time of final inspection of each supply lot of material.

Vendor to provide calibration certificates for review of all the measuring instruments at the time of inspection, i.e., used for checking and testing, along with the Master calibration certificate of the measuring instruments from which the instruments is calibrated.

All meters shall be sealed properly by the Manufacturer after final inspection clearance and before dispatch. Meters found in an unsealed condition shall not be accepted.

If the performance of any of the sample meter is not in compliance with the acceptance norms of the respective standards then that the lot of respective item will be rejected.



Vendor should follow the QAP provided in this tender and in line with applicable standards mentioned in the datasheet.

Even after third party inspection, Owner reserves the right to select a sample of diaphragm meters randomly from each manufacturing batch and have these independently tested. Should the results of these tests fall outside the limits specified in Technical specification, then Owner reserves the rights to reject all production supplied from the batch.

### **7.1 Visual Inspection**

A visual inspection and physical check shall be made for compliance of the material with requirements of the specifications of the original Purchase Order and all subsequent change orders including the relevant attachments and with Manufacturer's catalogue description and certified drawings furnished. Included are:

- a. Check for satisfactory workmanship, materials compliance and freedom from surface defects and broken glass;
- b. Check for compliance with certified drawings including dimensions;
- c. Check for all accessories on Purchase Order;
- d. Check for required cable length, if any
- e. Check paint for imperfections.

Verify that each component has a tag of corrosion resistant material permanently fastened to the unit and stamped with information. Verify that all terminals for interconnecting wiring between units are accessible for connecting and checking. Terminal blocks should be numbered and where 2 or more are present, should have block identification. Interconnecting cables shall be colour coded or numbered.

All electrical wiring shall be checked for continuity and insulation test.

### **7.2 Functional Testing**

Each gas meter shall be accurately calibrated and tested by the Manufacturer at the normal working conditions specified in the attached data sheet. All test equipment used for testing shall have traceability to national standards.

### **7.3 Installation, Testing & Commissioning**

The Supplier shall assist during erection, testing and commissioning of gas meters at site. The bidders shall indicate separate pricing for this purpose in their offers, if applicable.

### **7.4 Guarantee / Warranty**

Vendor shall guarantee that the complete scope of supply shall be safely and reliably meet all of the requirements of this Company Specification.

Generally the Vendor shall provide warranty support for a period of 12 months from the date of supply or 18 months from the date of manufacturing. Warranty shall apply to defective material workmanship and facility design. The cost of correction / replacement of any warranty items shall be borne by the Vendor.

The job specifications / data sheets shall be referred for any specific warranty / guarantee.

## 8.0 MARKING, PACKING AND SHIPMENT

Vendor responsible for gas meter and its accessories shall ensure that all equipment, associated materials and accessories are designed properly packed, and secured for transit to site without damage.

Supplier / Vendor shall provide a detailed packing list for all the items been supplied. Necessary accessories supplied shall be packed in the main package box for which accessories are been supplied.

The calibration certificates of each item shall be enclosed within the package box. Each package box shall be tagged with the Purchase Order number (unique identification is required).

The package box shall be suitable for inland transport or seaworthy (if imported). Necessary precautions and pre-requisites shall be considered by Supplier for package delivery to the concern Client site / location / workshop.

Vendor shall provide and submit his standard "Marking, Packing and Shipping Procedures" for review by Client.

Vendor shall specify any conditions, normal or special, to be verified in intermediate storage and during transport.

Equipment shall be suitably packed including any dismantling, transit fastening and bracing necessary to prevent distortion or damage during transit.

Adequate protection shall be provided to prevent mechanical damage and atmospheric corrosion in transit and at the job site.

Preparation for shipment and packing will be subject to inspection and rejection by Company's inspectors. All costs occasioned by such rejection shall be to account of the Vendor.

## 9.0 SPARES AND ACCESSORIES

The following spare philosophy shall be followed in case it is not covered in Job Specification.

The Vendor shall include with the bid, recommended spare parts list for start-up, pre-commissioning and two year operation as per following:

- a. Itemized recommended spare parts list for start-up and pre-commissioning;
- b. Itemized recommended spare parts list for two years operation.

In case of RPD meters, spare gaskets for meter, NRV and RO installation shall be provided by Vendor.

In case of RPD meters, lubricating oil (500 ml) along with feeding accessories shall be supplied with each meter.

Vendor shall submit recommended accessories and special tools required for operation and maintenance of gas meters for Company's review.

All the spare parts furnished by Vendor shall be wrapped and packaged to preserve an original as-new condition under normal conditions of storage. The same parts shall be properly tagged with stainless steel tags and coded so that later identification as to their intended equipment usage shall be clear.

All items supplied shall be packaged separately and clearly marked as "Spare Parts" and shipped with the equipment.

## **10.0 DOCUMENTATION**

The following documentation requirements shall be fulfilled by the Vendor at various stages of bidding and execution of order.

Whenever Client and/or Client's representative's review and/or approval is requested on a document to be submitted by the Contractor / Supplier or before an action is implemented by the Contractor / Supplier, such review and/or approval shall always be requested in writing by the Contractor / Supplier to the Client and/or the Client's representative before any action subject of this review and/or approval is taken.

Documentation provided by Vendor shall be in English language only.

Client and/or Client's representative approval shall always be given in writing.

### **10.1 Documentation Required with Technical Bid**

During bidding stage, Vendor shall submit in his offer the following documents as a minimum:

- a. Specification, Data Sheets along with sizing calculations;
- b. Bill of Materials including Vendor List, Details for third party items;
- c. Catalogues and manuals;
- d. Quality Assurance Plan;
- e. Weights & Measures Approval Certificate;
- f. Type approval / Compliance / Examination Certificate confirming to the governing standard;
- g. Pressure Drop Calculations;
- h. Performance Curves;
- i. Deviations from technical specification, if any, with proper justification;
- j. Supplies against major orders for natural gas application (PTR).

The Vendor shall provide at the time of tendering a complete detailed engineering package in accordance with the Purchaser's data requirement and shall include but not necessarily be limited to the same.

### **10.2 Documentation Required for Approval**

Upon placement of Purchase Order, Vendor shall submit as a minimum the following drawings, documents and specifications for the Company's approval:

- a. Datasheets of meters and all accessories supplied;
- b. Bill of materials including Vendor list, details for third party items;
- c. Catalogue and Technical literature of commercial meters in English;
- d. Weights & Measures Approval Certificate;
- e. Type approval / Compliance / Examination Certificate confirming to the governing standard;
- f. Installation, Operation and Maintenance Manual;

- g. Sizing Calculations;
- h. Assembly drawings with overall dimensions;
- i. Detailed sectional drawings showing all parts with reference numbers and material specifications of meters and all accessories supplied;
- j. Welding, heat treatment, inspection and testing procedures;
- k. Painting Specification;
- l. Calibration Certificates;
- m. Material Test Certificates;
- n. Quality Assurance Plan;
- o. Any other documents.

Upon approval and completion of testing, full set of above documentation shall be submitted to Client in 2 sets of hardcopy format and soft copy (PDFs) format.




Group A - Datasheet for Gas Meter with AMR				Rev.
General	1	Meter Type	Gas Meters	
	2	Quantity	Refer Table below	
	3	Service	Natural Gas	
	4	Governing Standard	EN 1359:2000 (or latest) / OIML R137-2/ EN12480:2015 / AGA9	1
	5	Approval	Type approval certificate as per Governing Standard	
	6	Installation	Suitable for outdoor / indoor installations, tamper proof and corrosion	
	7	Environment Protection	Mechanical Environment M2 & Electronic Environment E2	
	8			
Process Condition	9	Flow (Min / Max)	Refer Table below	
	10	Accuracy Class	Class 1.5	
	11	Accuracy	± 3% (Qmin to 0.1Qmax) and ±1.5% (0.1Qmax to Qmax)	
	12	Rangeability	150:1 or better	
	13	Cyclic Volume	Minimum*	
	14	Operating Pressure	500 mbar	1
	15	Pressure Drop	Refer Note- 4	1
	16	Operating Temperature	-10° to 55°C	
	17			
	18			
Flow Meter	19	Meter Capacity	Refer table below	
	20	Body Casing	Steel/Cast Aluminium Alloy with suitable coating on inside and outside for corrosion protection	1
	21	Corrosion Protection	Suitable coating on inside and outside of casing	
	22	End Connections	Threaded *	
	23	Centre to Centre Distance	Refer Table below	
	24	Ingress Protection	IP-54 or better	
	25	Sensor MOC	For Diaphragm Meter : Polyester fabric coated with rubber for an endurance life cycle of 80,000 cum.  For other type of Meter : MOC as per OIML R137	
	26	Other Internal Parts	All meter internals shall be non – metallic to prevent from tampering like magnet.	
	27	Back-run Stop	Required to prevent the meter from running backwards in case of tampering or back flow condition.	
	28	Transmission Rate	For Diaphragm Meter: 0.01 m³ / rotation for G4 & G6 and 0.10 m³ / rotation for G10-G25. For other types of Meter :  Vendor to specify.	
	29	Transmission System	Tamperproof	
	30	Max. Index Reading	8 Digit index with auto reset facility	

	31	Unit of Measurement	M3 (Cubic Meter) at standard conditions (Pressure= 101.325 kPa & Temperature= 15 °C)	2		
	32	Ingress Protection	IP-54 or better			
	33					
	34					
	35	Volume Correction	Volume correction through External / Internal EVC.			
	36	Cables & Connectors	Vendor shall provide cables (2.5 Meter length) along with cable			
	37	Operating / Design Temperature	0° to 45°C / 60°C			
	38	Ingress Protection	IP-65 or better			
	39	Communication between MIU and Remote Server	The meters quoted should be supplied with AMR solution along with any technology module except RF technology for uploading the meter data into cloud server.  Geo-tagging accurate up to 5 decimal points to be configured for all the meters.	1		
	40	Input Pulse Characteristic	Refer EVC data sheet for detail requirements			
	41	Power Supply				
	42	MIU Memory Capacity				
	43	Protocol				
	44	Transmission / Radiated Power				
	45					
	46					
Misc.	47	Reverse Flow Restriction	Meter shall be provided with a device in the outlet to prevent reverse flow.			
	48	Over-flow Protection Device	For Diaphragm Meter : Restriction Orifice (RO) required at downstream of meter. For other types of Meter :  Vendor to specify.			
S No.	Meter Capacity		End Connections *	C-C Distance *	Min / Max. Flow (At Actual Conditions)	
1	G-4		DN 20 / 3/4" NPT	110±2 mm	0.04 / 6.0 m³/hr	
2	G-6		DN 20 / 3/4" NPT	250±2 mm	0.06 / 10.0 m³/hr	
3	G-10		DN 20 / 3/4" NPT	250±2 mm	0.10 / 16.0 m³/hr	
4	G-16		DN 20 / 3/4" NPT	280±2 mm	0.16 / 25.0 m³/hr	





Group B - DATASHEET for RPD FLOW METER with AMR AND EVC					Rev
General	1	Meter Type		Rotary Positive Displacement	
	2	Quantity		Refer Table below	
	3	Line No.	Line Size & Schedule	N/A	
	4	P&ID Number		N/A	
	5	Service		Natural Gas	
	6	Governing Standard		EN 12480 or Latest	
	7	Area Classification		Zone 1 Group IIA /IIB, T3	
	8	Installation	Orientation	Indoor / Outdoor	Horizontal / Vertical
	9				
Process Conditions	10	Fluid and State		Natural gas	
	11	Max.Flow		Refer Table below	
	12	Operating Temperature		-10° to 55°C	
	13	Max. Operating Pressure		4 bar	
	14	Design Pressure		1.5 times Max. Operating Pressure	
	15	Molecular Wt.		*	
	16	Max. Allowable Pressure Drop		As per EN 12480 or Latest	
	17				
Flow Meter	18	End Connection	Type	Flanged *	
	19		Size and Rating	Refer Table below	
	20		Facing & Finish	*	
	21	Pulses / M3		LF & HF*	
	22	Flow Range		Refer Table below	
	23	Enclosure protection		Weather proof IP-65 as per IEC 60529	
	24	Cable Entry		*	
	25	Material	Body	Cast Aluminium Alloy	
	26		End Connections	ASTM A 105 Flanged or equivalent	
	27		Impeller & Shaft	High Grade alloy steel with Synthetic Elastomers	
	28		Meter Internals	Non-corrosive tested low noise, friction less, endurance for 20 years life and external tamper proof	
	29	Accuracy		+/- 2% (Qmin to 0.1Qmax) and +/-1% (0.1Qmax to Qmax)	
	30	Rangeability		1:100 or better	
	31				
	32	Type - 2 wire/ 3 wire		2 wire	
	33	Preamplifier location		Field	
	34	Power supply		24 VDC loop powered from flow computer	
	35	Cable Entry		1/2" NPT(F)	

	36	Enclosure		Weather proof IP-65 as per IEC 60529		
	37	Intrinsic safe		Ex'i'		
	38	Mounting	Accessories	Integral with RPD flow meter	Required	
	39	Power supply	Cable Entry	24 VDC loop powered from flow computer		
	40	Output		1 LF, 1 LF/HF and 1 AT (Anti Tampering)		
	41	Enclosure		Weather proof IP-65 as per IEC 60529		
	42	Intrinsic safe		Ex'i'		
	43	Mounting		Integral with RPD flow meter		
Options	44	NRV		Required, 1 No.; MOC: WCB body and Alloy 20/SS 316 internals		
	45	Restriction Orifice		Required,2 Nos.; MOC: SS316		
	46	Strainer	Size and Mesh	Required, 1 No.; Manufacturer Standard		
	47	Companion Flanges	Gaskets	Required; MOC: CS; WNRF; with bolts	Required, 2 Nos + 2 Nos spare	
	48	Index		Required 8 Digit, Mechanical, non- resettable counter, Rotatable		
	49	Temperature Tap on Meter Body		Required, 1/4" NPT, Thermowell SS 316, RTD 6mm probe		
	50	Pressure Tap on Meter Body		Required, 1/4" NPT		
	51	Lubricator with accessories		Required		
	52	Radiography		100 % required for all welded joints		
	53					
Misc	54	Make		*		
	55	Model No.		*		
S No.	Meter Type		Size / Rating*	F-F Distance* (mm)	Max. Flow (At Actual Conditions)	
1	G-10		2"/ 150#	171	16 m3 / hr	
2	G-16		2"/ 150#	171	25 m3 / hr	
3	G-25		2"/ 150#	171	40 m3 / hr	
4	G-40		2"/ 150#	171	65 m3 / hr	
5	G-65		2"/ 150#	171	100 m3 / hr	
6	G-160		2"/ 150#	241	250 m3 / hr	
7	G-250		2"/ 150#	241	400 m3 / hr	
8	G-400		2"/ 150#	241	650 m3 / hr	

Notes:								
1	Vendor to specify. *							
2	Vendor shall provide detailed GA drawing along with all parts name and MOC for the RPD meter along with data sheet.							
3	In addition to first fill, lubricating oil (500 ml) along with feeding accessories shall be supplied with each meter.							
4	Suitable adaptors or spool pieces shall be provided to meet above specified dimensions. Companion flanges shall be provided at each end.							
5	Type Approval Certificate and Weights & Measures Certificate along with Model & Make information shall be provided for meters supplied.							
6	Calibration certificate (original + soft copy) shall be provided to CUGL. One copy of the certificate shall be provided within the packing box of each meter.							
7	Pulse generators shall be provided with means of plugging and sealing arrangement against unauthorized interference.							
8	Meter casing shall be tamperproof, corrosion resistant suitable for indoor / outdoor installation.							
9	For RPD type meter, the following accessories to be provided: conical filter, NRV, RO, companion flanges and bolts. Pressure drop across complete meter assembly consisting of meter, NRV, RO and strainer shall be calculated and provided. Over flow protection shall be 120% of max. flow.							
				2	12.06.19	AB	VB	KNC
			PROJECT:	SUPPLY OF COMMERCIAL GAS METERS	REV.	DATE	PRPD	VB
Document No. : 14588/16-CD-IC-SP-001								

DATA SHEEL FOR ELECTRIC VOLUME CORRECTOR				Rev.
General	1	Type	Microprocessor based battery operated volume corrector with integral pressure transmitter and temperature sensor suitable for mounting in the field location and applicable for custody transfer	
	2	Service	Natural Gas	
	3	Site conditions	Temp.: 0 - 55 degC, Hot, Humid, tropical, Saline environment	
	4	Governing Standard	EN 12405-1+A1 or Latest	1
	5	Approval	Type Approval Certificate as per Governing Standard	
	6	Area Classification	Zone 1 Group IIA /IIB T3 Ex 'd'	
	7	Enclosure Protection	IP 65	
	8	Quantity	As applicable	1
	9	Function	To measure actual gas volume, pressure, temperature and compressibility factors of the gas and based on which calculates standard volume of gas. The unit shall be complete in all respects to achieve functionality.	
	10	Accuracy	Typical accuracy better than $\pm 0.5\%$ as per governing standard	1
	11			
	12	Input	1.EVC input shall be either LF/ HF pulse	
	13		2.Temperature signal form RTD measured value PT100/1000.All interconnecting cable shall be screened and armoured	
	14		3.Pressure sensor shall be directly mounted on the meter and wired to EVC with a range in accordance with max. working pressure and design pressure	
	15	Output	1.Correct Flow rate in standard cubic meter per hour (SCMH)	
	16		2.Correct Totalized volume (sm3)	
	17		3.Temperature	
	18		4.Pressure	
	19		5.Correction factor	

	20		6. Uncorrected flow rate	
	21		7. Uncorrected volume	
	22	Isolation	All Inputs, Outputs and power supply shall be individually isolated	
	23	Display	2 line LCD with 16 characters / 1 Line LCD with 8 characters	
	24	Power Supply (Note 5)	Lithium battery along with mounting hardware.	
	25	Calculations / Corrections	Compressibility : AGA8 (Detail method), NX-18, S-GERG	
	26	Features	Built in diagnostics to detect proper functioning	
	27		Data security to password / key-lock. Hardware and software seals required.	
	28		Parameters and programmed constants shall be stored in EEPROM / non-volatile memory	
	29		Conduit connection of 1/2" NPTF with plugs shall be provided for output.	
	30		Alarm output for unit malfunctioning.	
	31		EVC can store hourly data for 60 days	1
	32		Large and configurable database and can store hourly, daily, monthly data with date & time stamp for pressure, temperature and corrected flow and consumption up to 1500 records or better.	
	33		Facility for entry and accessing live and stored data through Keypad / Laptop / SCADA system.	
	34	Identification	Unique Addressing Facility	
	35	Communication Ports	1. RS 232/ 485 serial port for SCADA facility (configurable up to 9600 bps) along with required connector, convertor and cable for USB output.	1
	36	Software	Suitable communication protocol adaptor with 2.5 mtr of communication cable along with driver software to communicate with EVC and Windows 7 and Windows 10 based laptop shall be supplied with each EVC	
	37	Automatic Meter Reading (AMR)	Required, In built AMR with compatible technology for Data transmission	
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**DATA HOSTING AND SERVICES AGREEMENT  
FOR 5 YEARS**

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## 1. INTRODUCTION

Central U.P Gas limited (CUGL) is supplying Piped Natural Gas (PNG) to Domestic, Commercial and Industrial consumers and Compressed Natural Gas (CNG) to automobiles in Kanpur, Bareilly and Jhansi.

CUGL intends to procure Commercial Meters, EVC with inbuilt AMR for PNG projects. For Commercial Meters CUGL required data hosting and associated services for 5 years as per technical requirements / specification attached with the requisition.

## 2. GENERAL

### 2.1 DEFINITION

Where used in this document, the following terms shall have the meanings indicated below, unless clearly indicated by the context to this order.

Agreement	Designates the agreement concluded between the Client and the Contractor, under which the latter undertakes to the former the Goods and/or Services according to the stipulations which are agreed and specified in the form of an order.
Client / Owner / Purchaser	Designates the purchaser of the Goods and/or Services, which are the subject of the agreement.

Vendor / Bidder / Contractor / Supplier	Designates the individual or legal entity with whom the order has been concluded by the Client. The term "Contractor / Supplier" may be used indifferently for a supplier, a manufacturer, an erection Contractor / Supplier, etc.
Days – Week - Month	Specify the number of calendar days, weeks or months and not of working days, weeks or months.
Client's representative	Designates the individual or legal entity to which the Client has entrusted various tasks in relation with the carrying out of his project.
Goods and/or Service	Designate, depending on the case, all or part of the drawings or documents, substances, materials, materiel, equipment, structures, plant, tools, machinery, to be studied, designed, manufactured, supplied by the Contractor / Supplier under the agreement, including all the studies, tasks, works and services specified by the order. The terms Goods or Services may be indifferently used one for the other as required by the context.
Project	Designates the aggregate of Goods and/or Services to be provided by one or more Contractor / Supplier.
Owner / Customer	Party or Individual that engages owner for PNG supply service.

### 3. PURPOSE

This document defines the minimum scope for commercial and industrial meter reading data hosting in Vendor's cloud server and associated services for 5 years. The document specifies the terms and conditions which Vendor shall adhere to during the entire tenure of contract.

### 4. BRIEF SCOPE OF SUPPLY / SERVICES

Following are the minimum scope and responsibilities of the Vendor in terms of data hosting and the services required by CUGL:

1. Grid independent battery packs for powering of EVC / Sensor/Modem;
2. All available technologies shall be used for data transmission except for RF technology;
3. Mode of communication shall be one way;
4. Data transmission cost includes SIM card and monthly charges;
5. Hardware for server, Server should be OPC compliant. Cloud server is accepted;
6. Bidder shall commission the gas meters within 5 days after CUGL's intimation of completion of meter installation.

Commissioning cost to be included in the meter supply cost, data hosting cost, no separate cost is envisaged for commissioning & and data hosting. Installation of the gas meters is in CUGL's scope;

7. Configuration of Asset ID for each meter after commissioning (Asset ID shall be provided by CUGL);
8. Bidder shall establish and demonstrate the signal communication between gas meters and Bidder's cloud server to CUGL
9. Bidder shall be responsible for hosting of meter reading data in Bidder's cloud server for 5 years from the date of FOI;
10. On billing days i.e., on 1st and 16th of every month, Bidder has to ensure 100% availability of meter reading;
11. Maintain hourly logs of gas consumption of each meter i.e., 24 logs per day for each meter and storing of historical data for at least 6 months in Bidder's cloud server;
12. Bidder to provide data analytics access through dash boards to CUGL personnel via secured and encrypted platforms through web services using https protocols;
13. Bidder to provide real time alarms to CUGL in case of any malfunction / tampering to CUGL. The alarm SMS shall be sent to 3 CUGL designated phone number and simultaneously email to 3 designated email IDs;
14. Update any firmware or software required for proper functioning of the complete system is in Bidder's scope;
15. Attend to Owner's demands regarding report abnormality or absence and provide justification / rectification against any mismatch or issue raised within prescribed time frame;
16. In case of failure of automatic reading collection, reading should be collected manually and submit to CUGL on 1st and 16th of every month;

## 5. AMR REQUIREMENTS (IF NOT INBUILT WITH THE EVC)

1. Bidder should submit the details of hardware such as Make, Model, Approval certificates and catalogues of all the hardware along with the unpriced bid for technical evaluation;
2. AMR system shall be compliant for Zone-1;
3. PESO / CCOE Nagpur certification shall be provided;
4. Equipment type approval from concerned authorities like wireless planning & co-ordination wing WPC/WEEE/ROHS shall be provided;
5. Area classification as per IEC-79, Zone1, Group IIA/B, T3/T4;
6. Site condition: Temperature 0°C to 50°C (Design), hot humid, Tropical saline environment;
7. Enclosure: IP65 or better;
8. Necessary mounting supports shall be supplied by the vendor.

## 6. DETAILED SCOPE OF SERVICES

Following are the detailed scope of services to be provided by the Bidder. Failing to meet these services requirement, Bidder shall be liable to pay penalties as per the clauses specified in the agreement.

1. Commissioning: Bidder shall commission the meters within 5 calendar days post installation intimation of the asset by CUGL. Bidder shall be responsible for providing geo-tagging for the meters installed in the format provided by CUGL. Bidder shall provide a report of the geo-tagged assets within 5 calendar days from the time of installation.

Bidder shall verify and demonstrate the signal communication between gas meters and the Bidder's cloud server to CUGL. Bidder shall also demonstrate the alarms features considered for the situation as listed below.

2. Re-commissioning: There may be some cases where CUGL need to relocate the gas meters. In such cases Bidder to re-commission the meter and update the software / hardware in the system to put the meter in line for gas consumption reading.
3. Data Hosting: Gas consumption reading and other diagnostic / monitoring data shall be uploaded from AMR system through all available technologies except RF technology to Bidder's cloud server in real time. Bidder shall host the meter reading data in the Bidder's cloud server. Bidder to maintain the record of historical data for at least 6 months.
4. Reading: Bidder to upload the meter reading data every day at 6 AM to CUGL's billing system. Bidder will be penalized in case failing to upload the reading data complete in all respect and on schedule as per penalty clause.
5. Report: Bidder shall provide facility of viewing and extracting reports according to requirement and in the format desired by CUGL through dash boards. Bidder to support CUGL to resolve any issues related in viewing and extracting

report and modification of report layout in future as required by CUGL without any cost implication.

6. Addition / Deletion: The system supplied by Bidder shall be suitable to add or delete consumers as and when required by CUGL. The changes required for addition/deletion in software / system shall be done by

the Bidder. The modification is to be done seamlessly without disturbing the billing system of CUGL.

7. Cloud Server: The meter reading data shall be collected automatically through all available technologies except RF technology installed with each meter supplied by the Bidder and the reading data shall be hosted in Bidder's cloud server.
8. Bidder's server shall be subjected to audit conditions as prevailed in ISO 27001. Bidder shall hire a third- party and shall conduct cloud server audit once in each financial year. Intimation of audit shall be conveyed to CUGL to witness the audit. A random audit shall be conducted by CUGL once in each financial year; CUGL shall provide intimation of such a random audit to Bidder in advance.
9. AMR Data Availability: Scan time of necessary values for AMR should be 1 hour or better.
10. Data should be transmitted to centralised server on once in 24 hour basis.
11. Data transmission between AMR and remote server shall be encrypted to prevent intruder access.
12. Overall data security shall be ensured by Bidder through suitable encryption to prevent intruder access.
13. Number of user ID and password for logging on to server shall be as desired by CUGL.
14. AMR Data Storage Facility: Data security through password and hardware sealing.
15. Parameters and programmed constants shall be stored in memory.
16. The stored data should be retrievable by using laptops / centralized system.
17. System should be capable to store hourly log, daily log and event logs for one year.
18. Software / Firmware: Bidder shall be responsible to upgrade any software / firmware as and when required for optimum performance of the services without any cost to CUGL. Bidder shall take approval from CUGL before performing such activity. Any interface issue arising due to such activity shall be under scope of vendor. The software upgrade shall be seamless and shall not hinder the billing process. System shall be restored within 24 hrs of software or firmware upgrade.
19. Code of Conduct: Good conduct shall be maintained by Bidder's personnel while having any interface with Customer / Owner. Bidder personnel shall always carry Owner's provided Identification Card and also any Government of India issued ID card (e.g. Adhaar etc.) in support. Owner shall not be liable for any misconduct or mal-practices adventured by Bidder's personnel during any operation.

## 7. DATA ANALYTICS

Bidder shall provide the following features of data analytics to Owner through dashboards.

Number of Concurrent Users of Dashboards	10
Types of Dashboards.	1. Management dash board; 2. Marketing dash board; 3. Operational team Dashboard.

Data Analytics on Management Dash Board.	<ol style="list-style-type: none"><li>1. Hourly consumption;</li><li>2. Daily report;</li><li>3. Fortnightly report;</li><li>4. Monthly report;</li><li>5. Same report shall be generated as consolidated reports for all</li></ol>
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## DATA HOSTING AND SERVICE AGREEMENT

	customers.
Data Analytics on Marketing Dash Board.	<ol style="list-style-type: none"> <li>1. Hourly consumption;;</li> <li>2. Daily report;</li> <li>3. Fortnightly report;</li> <li>4. Monthly report;</li> <li>5. Same report shall be generated as consolidated reports for all customers.</li> </ol>
Data Analytics on Operation Dash Board.	<ol style="list-style-type: none"> <li>1. Hourly consumption;</li> <li>2. Daily report;</li> <li>3. Fortnightly report;</li> <li>4. Monthly report;</li> <li>5. Same report shall be generated as consolidated reports for all customers.</li> </ol>
Parameters required	<p>Following data are required from all meters:</p> <ol style="list-style-type: none"> <li>1. Pressure;</li> <li>2. Temperature;</li> <li>3. Uncorrected volume;</li> <li>4. Corrected volume;</li> <li>5. Yesterday's corrected volume (6:00AM to 6:00AM);</li> <li>6. Total corrected volume;</li> <li>7. Conversion factor;</li> <li>8. Time/Date.</li> </ol>
Reports	<ol style="list-style-type: none"> <li>1. Hourly, weekly, monthly reports as per CUGL requirement;</li> <li>2. Daily exception report;</li> <li>3. Zero consumption report on daily basis;</li> <li>4. The software shall be capable of generating trends, alarms and graphics;</li> <li>5. Any updation / modification in reports/formats as per CUGL requirement should be done by vendor without any cost implication.</li> </ol>



List of Alarms	<ol style="list-style-type: none"><li>1. Any tampering of the gas meters;</li><li>2. Reverse or back flow, if applicable;</li><li>3. No flow;</li><li>4. Zero consumption for 5 consecutive days;</li><li>5. Communication failure;</li><li>6. Low battery.</li></ol>
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## **DATA HOSTING AND SERVICE AGREEMENT**

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### **8. PENALTIES**

If Bidder fails to meet any of the following requirements CUGL may forfeit the CPBG as per the penalty clauses:

1. Delay in commissioning within 7 days of installation intimation by CUGL.
2. In the event of server downgraded performance of 12 hrs in a 30-day cycle;
3. The Bidder has to make 95% AMR readings available every billing cycle through CUGL dash board. In case it is found that the performance level is below the committed levels;
4. Manual readings for a particular customer can be submitted for a maximum of two billing cycle. In case, the manual readings are submitted for more than two consecutive cycles for particular customer;
5. In case it is found that wrong readings are submitted by the vendor (due to non-working / malfunctioning of AMR system);
6. The vendor must provide the data logs of any particular customer on demand from CUGL. In case, the vendor is unable to provide the logs within the stipulated time lines or is unable to provide the logs;
7. If any authorized representative / employee of Bidder is involved in connivance with the consumers / indulged in mal-practice like deliberately forwarded wrong meter reading or is found to be manipulating the reading of customers or is tampering the software or in PNG meter or any CUGL installation, bypassing of meter etc. In addition to penalties legal action may be initiated against the Bidder.

### **9. TRAINING**

The Bidder shall be required to hold training session at site as well as in CUGL head office initially and thereafter every year during the contract period to facilitate the operation and to provide hands on training to the dealing staffs.

The training shall include installation, programming, trouble shooting and analysis of data. The Bidder shall provide requisite information and hard copies of manuals for reference. CUGL will not reimburse any charges for the training.

### **10. MANPOWER**

All manpower including engineers, technicians etc., associated with the project shall be required to wear protective gears such as safety shoes, helmets, goggles etc.

All manpower deputed at site for installation and commissioning of equipments shall be covered under statutory government compliances of PF, ESI, accident insurance, death, disability etc.

Bidder shall submit organogram towards the project team that shall be deputed for installation and commissioning and proposed location of his choice in Kanpur for his project office.

## **11. LANGUAGE & APPLICABLE LAW**

The agreement shall be written in English language unless specified otherwise in the SCC. All correspondence and other documents pertaining to the Agreement which are exchanged by the parties shall be written in the same language. In case, any document/brochure etc. is written in any other language then its English translation shall govern. The Contract shall be governed and interpreted in accordance with laws of India and Courts at Kanpur shall have exclusive jurisdiction.

		QUALITY ASSURANCE PLAN FOR GAS METERS						Project : City Gas Distribution Project in Kanpur, Unnao, Bareilly & Jhansi		
								Client : CUGL		
								Consultant :		
								QAP. No.:		
								Rev No.		
								Date 29.11.18		
S.No	Components & Operations	Description of Test	Category	Extent of Check	Ref. Doc. & Cl.no.	Acceptance Criteria	Format of Record	Inspection		Remark
								Manufacturer	TPIA	
1	Body & internal parts	Material of Body & Trim	Physical properties/ Chemical composition	1 sample per heat	Approved data sheet	Applicable Material std.	Material test Reports	P	R	
2	Assembly	Dimension-Size, rating, end connection	visual	100%	Approved drwg/doc	Approved drwg/doc	Inspection Format	P	R	
		Degree of protection	Test	10%	Approved data sheet	Applicable standard.	Test report	P	R	
		Body Hydro Test	Test	100%	Approved data sheet	No leakage	Test report	P	R/W	At least 5% to be witnessed by TPIA
		Calibration, accuracy	Test	100%	Approved data sheet	Approved data sheet	Test report	P	R/W	At least 5% to be witnessed by TPIA
		Functional test	Test	100%	Approved data sheet	Approved data sheet	Test report	P	R/W	At least 5% to be witnessed by TPIA

**LEGENDS: R - Review, W - Witness, P - Perform, TPIA - Third Party Inspection Agency, R/W-Review and witness**

Notes: -

- 1) The above mentioned testing and acceptance criteria are minimum requirements , however , supplier shall ensure that the product also comply to the additional requirements as per technical specifications and data sheets.
- 2) The supplier shall submit their own detailed QAP prepared on the basis of the above for approval of Owner / Owner's representative and TPIA.
- 3) TPIA shall have right to inspect minimum 10% of all manufacturing activities on each day or as specified above.
- 4) TPIA along with Owner / Owner's representative shall review / approve all the documents related to QAP / Quality manuals Drawings etc. submitted by supplier.
- 5) TPIA shall also review the test certificates submitted by the manufacturer.
- 6) Supplier shall in coordination with sub vendor shall issue detailed production and inspection schedule indicating the dates and the locations to facilitate Owner / Owner's representative to organise Inspection.
- 7) Supplier shall submit their own Detailed QAP and meter index format Duly Signed and Stamped.8)TPIA shall review all the reports 100%.

**SOR**  
**(SCHEDULE OF**  
**RATES)**  
**SECTION-IX**