



**INDRADHANUSH GAS GRID LIMITED (IGGL)**

(Joint Venture of IOCL, ONGC, GAIL, OIL and NRL)

**GUWAHATI, ASSAM**

**NORTH -EAST GAS GRID PIPELINE PROJECT**

**REPLY TO PRE BID QUERIES FOR**

**ANNUAL RATE CONTRACT 2(TWO) YEARS BASIS FOR  
SUPPLY & INSTALLATION OF METERING SKIDS &  
ASSOCIATED FACILITIES**

**OPEN DOMESTIC COMPETITIVE BIDDING**

**Tender No.: 05/51/23VC/IGGL/030**

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(Tender wizard helpdesk: 011-49424365)**



**PREPARED AND ISSUED BY**

**MECON LIMITED**

(A Govt. of India Undertaking)

Delhi, India



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DATED : 10.03.2023

S.N.	CL. No.	Section/ Page	Section Detail/Description	Clarification / Deviation	MECON's Reply
1	Special Instruction to vendor for Turbine flow meter doc no.: MEC/05/E5/TFM-SIV Turbine flow meter clause no.: 1	Page no. 153 of 626	Velocity through the Turbine meter shall be restricted to 20m/s. Furnish the sizing calculation with offer, Meter shall be designed as per AGA-7, OIML recommendation	We understand that turbine meter type test approval shall be as per EN12261 and certificate for the same must be furnished as per legal & W & M guidelines. Please confirm	Tender Condition Prevails.
2	Special Instruction to vendor for Turbine flow meter doc no.: MEC/05/E5/TFM-SIV Turbine flow meter clause no.: 2	Page no. 153 of 626	The turbine meter shall be suitable for the area classification IEC Zone-1, Gr.- IIA & IIB, T3, Certificates from statutory bodies for Hazardous area classification shall be submitted along with offer	we understand that certificate from international statutory body,i.e. ATEX for intrinsically safe is acceptable. Please confirm.	Tender Condition Prevails.
3	Datasheet of Turbine flow meter doc no.: MEC/05/E5/DS-TFM Point no.: 26	Page no. 154 of 626	Pulses suitable to respective flow computer (No. of HF & LF as per TS No.: MEC/05/E5/TS/TFM-030)	As per TS No.: MEC/05/E5/TS/TFM-030 clause no. 17, we understand that for turbine meter upto 3" one HF sensor on meter body as well as one LF sensor on Index head is required and for turbine meter 4" and above, two HF sensors are required on meter body. Kindly confirm	Tender Condition Prevails.
4	Technical specification for Turbine flow meter Doc no.: .MEC/05/E5/TS/TFM-030 Point no. 18.4	Page no. 4 of 4	Vendor shall carry out the performance test and certify the meter in combination with its compnio electronics. A recognized test facility with traceable refernce measurment shall be used. Flow test data at 7 point covering the minimum to the maximum flow rate shall be obtained for ascertaining the meter linearity and repetability within the specified limits wet calibration of flow meters shall be done at the following nominal rates: 0.025qmax, 0.05qmax, 0.1qmax, 0.25qmax, 0.5qmax, 0.75qmax, and qmax.	Since the rangeability of turbine meter required is 1:20, we understand that calibration at flow point 2.5% of Qmax is not to be considered as it is beyond the flow range of turbine meter complying 1:20 rangeability, Please confirm.	Wil be dealt during detail engineering. However, 7 point calibration is mandatory.
5	Datasheet of Turbine flow meter DS no.: MEC/05/E5/DS-TFM Point: 31	Page 154 of 626	Straightening vane type - REQD.	we understand that turbine meter with integral straightening vane is required. Kindly confirm	External flow straightener is mandatory.



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6	Datasheet of Panel Mounted flow computer DS no.: MEC/05/E5/DS-FC/02 Notes: 5	Page no. 161 of 626	4 sets of Flow computer documentation including product literature, software/Hardware manual, maintenance instructions, Modbus addressing etc shall be supplied	Please note that 4 sets of necessary documents, literature and manuals will be provided in soft copy in CD-ROM	Tender Condition Prevails.
7	Datasheet of Panel Mounted flow computer DS no.: MEC/05/E5/DS-FC/02 Notes: 8	Page no. 161 of 626	The Flow computer shall be approved for Custody transfer by NMI/PTB/ renowned lab	We understand that custody transfer gas metering approval certification from NMI/ Measurement canada/PTB will be accepted as listing for renowned lab is not provided.	Tender Condition Prevails.
8	6.4	4	datasheet of cartridge filter	Kindly approve Rockwin make cartridge filter for this project. We have supplied our cartridge filter in various CGDs ,PTR enclosed for your kind consideration	Tender Condition Prevails.
9	Notes :4	24	datasheet of cartridge filter	Available calibration pressure in gail hazira lab is 46-49 kg/cm2. Therefore, we understand that wet calibration of turbine flowmeter is acceptable in GAIL hazira lab at this available pressure. Kindly confirm.	GAIL Hazira lab at available pressure is acceptable. Rest, Tender Condition Prevails.
10			P&ID	Monitor with internal SSV is also acceptable .Kindly confirm.	Not Acceptable. Rest, Tender Condition Prevails.
11		Technical	Skid plot plan	Request to please provide Skid plot plan with inlet and outlet orientation for each skid	It will be provided to successful bidder. Tender Condition Prevails.
12		Technical	Size as per P&ID	We understand that USM and all main line ball valve size shall be as per P&ID for all skid. Lower size is not acceptable . Please confirm	Confirmed. Rest, Tender Condition Prevails.



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13		Technical	H2S & TOTAL SULPHUR Analyzer	<p>We requested to accept FPD based gas chromatograph also which will measure both H2S and Total sulphur separately in single Gas chromatograph. GC with FPD principle are globally acceptable for measuring Total sulphur and H2S in natural gas. We had supplied FPD based GC for H2S and Total sulphur measurement in ONGC, Reliance, Adani, HSEPL etc for which documents are attached for your reference. Hence we request to please confirm your acceptance to consider FPD base GC for Total sulphur with H2S analyser analyser.</p> <p>We also understand that Single FPD based GC is required to measure both Total sulphur and H2S.</p> <p>We understand that Total sulphur maximum limit is 10 PPM and H2S maximum limit is 5 PPM. Please confirm</p>	<p>FPD based is also acceptable subjected to meeting PNGRB, other statutory requirements and tender conditions. All the consumables such as tape / carrier gas / calibration gas / other gas, etc. required for 2 years continuous online operation is in bidder's scope. Further, all the items / accessories as required considering OEM recommendations for installation in all respect shall also be provided by bidder. However, analyzers, probes &amp; tappings shall be separate for each H2S, Total Sulphur, Gas Chromatograph and moisture analyzer.</p>
14		Technical	Moisture analyzer	<p>We request to accept Aluminium oxide based Moisture analyzer. We had supplied the same in ONGC, EIL, Toyo etc. project. Request to please confirm</p>	<p>Acceptable subjected to meeting PNGRB, other statutory requirements and tender conditions. All the consumables such as tape / carrier gas / calibration gas / other gas, etc. required for 2 years continuous online operation is in bidder's scope. Further, all the items / accessories as required considering OEM recommendations for installation in all respect shall also be provided by bidder. However, analyzers, probes &amp; tappings shall be separate for each H2S, Total Sulphur, Gas Chromatograph and moisture analyzer.</p>
15		Technical	GC Controller	<p>GC controller are part of analyzer and are suitable for hazardous area and supplied in many GAIL project, hence we understand that GC controller mounted in field is also acceptable.</p>	<p>Acceptable subjected to meeting rest of the tender conditions.</p>
16		Technical	P&ID of USM skid with Analyzer	<p>As per P&amp;ID, we understand that single tapping is required in skid for all type of analyzer (i.e. GC, H2S+TS and moisture). This tapping required 20D straight length. Please confirm</p>	<p>Analyzers, probes &amp; tappings shall be separate for each H2S, Total Sulphur, Gas Chromatograph and moisture analyzer.</p>
17		Technical	P&ID (USM) - NRL Section-1	<p>As per the process parameter inlet and outlet pressure difference is 3 kg/cm2. For desining of skid with pressure reduction we need minimum 5 kg/cm2 difference between inlet and outlet of PRS. Request to please provide pressure range accordingly.</p>	<p>Tender Condition Prevails.</p>
18		Technical	Vendor list	<p>As per Note-1 in vendor list, we understand that GAIL &amp; MECON will accept vendor other than the given list based on the proven track record as per Note-1. Please confirm</p>	<p>Tender Condition Prevails.</p>



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19		Technical	Wet calibration alongwith meter run	We understand that project specific meter run need to be sent to lab for calibration (upstream 10D + Flow profiler + 10D and Downstream 5D). Spool and profiler available in lab should not use for calibration.	Tender Condition Prevails.
20		Commercial	Delivery Period	We request delivery of 12 months due to Longer waiting period for all Third Party Labs across the globe including GAIL Hazira lab Calibration slot & 3.2 Certification requirement. Further transportation to the site in North East India will take weeks	Tender Condition Prevails.
21		Commercial	Bidding / Evaluation	1. As per EMD value, there is common EMD for complete GROUP A, individual SOR wise (SOR A1, A2, A3, A4 & A5) EMD value is not given. We understand that evaluation is Group wise. There are two group in this tender GROUP A & GROUP B. Hence we understand that bidder has to bid for complete Group only. Individual skid shall not be bid by bidder.	Bidder understanding is corrctet .
22		Commercial	Bid Datasheet	1. As per the BDS point no. 40, Each group is non-split able or not-divisible. Hence request to please confirm whether each line item / skid within each Group A / Group B is individually splitable to MSE and non MSE bidder. Please confirm	Tender Condition Prevails.