

Reply to Pre Bid Queries (e-tender No. 8000017148)
ARC TENDER FOR PROCUREMENT OF METERING SKIDS FOR LAST MILE CONNECTIVITY
(PROCUREMENT OF METERING SKIDS)

SR. NO.	SECTION	DESCRIPTION	DETAILED QUERY	GAIL's Reply
Technical Query				
1	Datasheet for turbine flow meter doc. No. GAIL-STD-IN-DOC-DS-014, Page no. 2 of 2 & Clause no. Note-4	The offered meter must be designed as per AGA7 Specifications and Calibration certificate from the agency approved for custody transfer certification from the country of origin shall be supplied.	We understand that turbine meter type test approval shall be as per EN12261 is required and certificate for the same must be furnished. Please confirm	Tender condition prevails.
2	Standard specification of Turbine meter doc. No. GAIL-STD-IN-DOC-TS-018, Page no. 12 of 13 & Clause no. Inspection and testing clause no. 4.2 (b)	Certificate from statutory body for intrinsic safety and flameproof enclosure for meter electronics and flow computer, as applicable.	We understand that certificate from international statutory body,i.e. ATEX for intrinsically safe is acceptable. Please confirm.	Bidder understanding is correct
3	Scope of work doc. No. GAIL-RFP-GN-DOC-SW-001, Page no. 15 of 43 & Clause no. Point no. 1	Wet calibration of Turbine meter shall be performed at 7 different flow points. Calibration of Turbine Flow Meters shall be done at the following nominal flow rates: 0.025 Qmax, 0.05 Qmax, 0.1 Qmax, 0.25 Qmax, 0.5 Qmax, 0.75	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.	Tender condition prevails.
4	Scope of work, Page 41/938, Clause no. Specification of Field Mounted (Solar panel powered) Flow Computer:	NA	We understand that a RTU with all functions of a gas flow computer [. The measurement and control tasks are fully independent. The result is a versatile gas flow computer that is well suited to a wide variety of oil and natural gas applications.], while retaining the RTU's inherent logic programmability can be offered as field muted flow computer. Kindly confirm if our understanding is correct.	Tender condition prevails.
5	Scope of work, Page 41/938, Clause no. Specification of Field Mounted (Solar panel powered) Flow Computer:	NA	Note : Definition of a field mounted flow computer is that all its components including its enclosure are from a single manufacturer/OEM and this field mounted flow computer has a single certification of custody transfer approval and hazardous use application. We understand that GAIL has been accepting assembled flow computer (various components from various manufacturers) for custody transfer application for hazardous area application on its various previous projects. Hence, for this RFQ, will GAIL follow the same acceptance methodology ? Please note a response of 'tender condition prevails' will not provide clarity to bidders and will re-affirm your answer that GAIL will accept assembled flow computer as pe previous projects.	Tender condition prevails.

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6	Scope of work, Page 41/938 AND 347/938, Clause no. Specification of Field Mounted (Solar panel powered) Flow Computer AND 3.2 AND 4.2 (b) & (c)	Mounting shall be field mounted suitable for IEC Zone2, Gr. IIA, IIB, temp. class T3 with NEMA 4 type enclosure made of carbon steel along with rain protection canopy. AND The flow computer and meter electronics shall have a stainless steel name plate attached firmly to it at a visible place, furnishing the following information; a) Tag number as per purchaser's data sheet. b) Manufacturer's serial number and model number. c) Manufacturer's name/trade mark d) Calibration range and units of measurement of flow. e) Area classification in which equipment can be used. f) Hazardous area certification number and marking. g) Operating power supply voltage and frequency. h) Output type and range.	We understand that to meet RFQ requirements, and since there are no details of enclosure make being of the same make as make of flow computer electronics, any other make of enclosure (which need not be of the same make as flow computer electronics) can be offered. Kindly confirm if our understanding is correct.	Tender condition prevails.
7	Scope of work, Page 41/938, Clause no. Specification of Field Mounted (Solar panel powered) Flow Computer:	For field mounted Flow computers, the port for Laptop connectivity shall be extended to access flow computer without need of opening JB (housing of Flow computer).	We understand that offered field mounted flow computer as per this RFQ requirement is to be mounted in any JB(housing of flow computer). Kindly confirm if our understanding is correct	Tender condition prevails
8	Scope of work, Page 41/938 AND 347/938, Clause no. Specification of Field Mounted (Solar panel powered) Flow Computer AND 3.2 AND 4.2 (b) & (c)	Mounting shall be field mounted suitable for IEC Zone2, Gr. IIA, IIB, temp. class T3 with NEMA 4 type enclosure made of carbon steel along with rain protection canopy. AND The flow computer and meter electronics shall have a stainless steel name plate attached firmly to it at a visible place, furnishing the following information; a) Tag number as per purchaser's data sheet. b) Manufacturer's serial number and model number. c) Manufacturer's name/trade mark d) Calibration range and units of measurement of flow. e) Area classification in which equipment can be used. f) Hazardous area certification number and marking. g) Operating power supply voltage and frequency. h) Output type and range.	We understand that offered electronics of field mounted flow computer as per this RFQ requirement is to be mounted in any general purpose JB(housing of flow computer) which is compatible for IEC Zone2, Gr. IIA, IIB, temp. class T3 mounting even though the make of the flow computer electronics and make of JB is different. Kindly confirm if our understanding is correct	Tender condition prevails

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9	Scope of work, Page 41/938 AND 370/938, Clause no. Specification of Field Mounted (Solar panel powered) Flow Computer: INPUT SIGNAL CAPABILITY AND 5.3.4	In place of Metering TT, signals from RTD shall be directly terminated in Flow Computer AND Field instruments from the meter run shall be directly connected to the flow computer to ensure signal integrity and to prevent tampering.	We understand that offered field mounted flow computer can have 3rd party RTD interface to read natural gas temperature. Kindly confirm if our understanding is correct.	Tender condition prevails
10	Scope of work, Page 41/938, Clause no. Specification of Field Mounted (Solar panel powered) Flow Computer: INPUT SIGNAL CAPABILITY	Pressure & temperature inputs for the calculation of standard flow. In place of Independent Metering PT (Pressure Transmitter) shall be independent and in built/ integral Pressure sensor is not acceptable	We understand that integral metering PT is not acceptable as per text in BOLD even though it provides for a higher metering accuracy. Kindly confirm if our understanding is correct.	Tender condition prevails
11	Scope of work, Page 41/938, Clause no. Specification of Field Mounted (Solar panel powered) Flow Computer:	Hazardous area requirements	We understand that offered field mounted flow computer for custody transfer application shall be Class 1 Division 2 certified (Zone-2 certified) as a single integrated unit comprise of flow computer electronics with in-built RTD input, its display and flow computer enclosure as per OEM standard. Please confirm.	Tender condition prevails
12			We understand that offered field mounted flow computer for custody transfer application shall be CCOE/PESO certified for Class 1 Division 2 area (as per IEC/EN 60079-15:2010 standard) as a single integrated unit comprise of flow computer electronics with in-built RTD input, its display and flow computer enclosure as per OEM standard. Please confirm.	Tender condition prevails
13	Scope of work, Page 43/938, Clause no. Specification of Field Mounted (Solar panel powered) Flow Computer:	KEYBOARD CAPABILITY:	We understand that to meet RFQ requirements, and since there are no details of keyboard / display being of the same make of flow computer electronics, any other make of keyboard/display can be offered. Kindly confirm if our understanding is correct.	Keyboard display of same make to be supplied & Tender condition prevails.
14	Scope of work, Page 43/938, Clause no. STANDARDS USED: clause - C	STANDARDS USED:	We request GAIL to confirm that offered field mounted flow computer for custody transfer application must comply AGA-8 (DETAILS, GROSS-1 & 2) method & heating value calculation as per ISO 6976 & GPA 2145 / GPA 2172. Please confirm.	Tender condition prevails

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15	GAIL-STD-IN-DOC-TS-021, Page no. 368/928, Clause no. STANDARD SPECIFICATIONFOR FLOW COMPUTERS	SCOPE	We understand that GAIL's requirement is for custody transfer application. Hence COMPLETE and proven field mounted flow computer shall be certified for custody transfer application and not just a tailored field mounted flow computer whose electronics is AGA & hazardous certified which is combined with some non- hazardous certified enclosure and interfaced with non- hazardous certified display. Kindly confirm.	Tender condition prevails
16	GAIL-STD-IN-DOC-TS-021, Page no. --, - Clause no. General	-	As per Above query, we understand that GAIL does not agree/accept a tailored field mounted flow computer where X make flow computer electronics which is certified for AGA & non-incendive Class-1, Div. 2, Group A, B C, & D requirements combined with + non- hazardous certified enclosure which is of Y make and complying to NEMA4/IP 65 + a non- hazardous certified display which is of Z make and complying to non-incendive and NEMA4 requirement - kindly confirm.	Tender conditon prevails
17	Scope of work, Page no. 22/928, Clause no. 13	Lithium Battery	We understand that bidder need to supply lithium battery of min. 50AH as required in case of failure of both solar power system(rechargeable battery) as well as 230VAC power system to keep the custody transfer metering operation uninterruptable for few hours so that concerned GAIL person take action on primary power source. kindly confirm if our understanding is correct	Bidders uderstanding is correct
18		Turbine Meter Wet calibration	We understand that meter shall be wet calibrated at average of maximum and minimum operating pressure. Kindly confirm.	Bidders uderstanding is correct
19		EN 10204 Certification	We understand that 3.1 certification is required for all items and only documents shall be reviewed by TPI during final skid inspection. Kindly clarify.	Tender condition prevails
20		PCV/FCV QAP	We request you to kindly remove hydro witnessed for PCV & FCV. TPI shall review documents during final skid inspection.	Tender condition prevails
Commercial Query				

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21			We understand that any material/product(mainly sourced from china) which will be used to "manufacture metering skid or part of metering skid" is acceptable to GAIL. Please confirm.	Tender condition prevails

Lyons Engineering Pvt. Ltd.



M Girish Kumar
General Manager - C &P