

Sl. No.	Tender Clause No./ Annexures	Page No.	Tender Description	Bidder's Query	PLECO / AGCL Response
GENERAL QUERIES					
1	Wet Calibration for USM with Meter run.	-	Calibration location not specified in Tender.	We understand wet calibration of USM at GAIL Hazira Lab is acceptable.	Noted
2	Special tools	-	Online Extracted tool	We understand that online Extraction Tool is required for removal of Transducers during flowing of Natural Gas through the Meter to avoid downtime for maintenance activities..	Bidder to Supply Extraction tool.
3	Bid Submission date and time	-	As per tender 20th Nov 2023	There has been lot of festival holidays during the month and hence request you to please extend the Tender due date till 5th Dec 2023	Refer Corrigendum#1 Dtd: 18/11/2023
4	Scope of supply	-	PLC based metering panel	You are requested to kindly clarify on this requirement as we understand that we have to provide Control Panel with Flow Computer and there is no requirement of PLC / HMI. Please confirm.	PLC/HMI Panel not Required
5	-	-	Local Weights & Measures Certification	Please confirm that local Weights & Measures Certification is required for Ultrasonic Meter.	Weights & measures Certification is required
COMMERCIAL QUERIES					
1	Bid Submission date and time	Page 9 of 85	20/11/2023 till 1500 HRS. IST	We request AGCL to Pleco to Extend the tender upto 4/12/23 looking to Diwali Festival all the supplier will be close till 19/11/23 and quote for the bought out shall be received after 20th November.	Refer to reply of S. no. 3 of General Queries
2	Bid Due Date	Page 9 of 85	-	Kindly extend bid due date till 30/11/2023	Refer to reply of S. no. 3 of General Queries
3	BID DOCUMENT FOR USM CHECK METER P158-TEN-I006_Rev TA DELIVERY PERIOD (4.2)	Page 8 of 84	Five (05) months on FOT Site Basis	Ultrasonic Meters are sourced from overseas factories and envisages wet calibration at third party laboratories which are longest lead activities. Further delivery of Ball Valves is around 20 weeks and Flow Computer is 24 weeks. Once the materials reach our stores, entire assembly, internal inspection, Factory Acceptance Test and transportation from our fabrication yard to your works are time consuming activities. Hence the current standard delivery is 7 months. Request acceptance of the same. Please confirm.	Refer Corrigendum#2 Dtd: 25/11/2023
4	MATERIAL REQUISITION FOR USM Check Meter P158-MRR-I006 Rev.CA	Page 7 of 356	Vendor shall deliver the Metering at AGCL site LETEKUJAAN TERMINAL and the delivery schedule shall be 5 months FOT site basis.		
5	BID DOCUMENT FOR USM CHECK METER P158-TEN-I006_Rev TA DELIVERY PERIOD (4.2)	Page 8 of 84	Five (05) months on FOT Site Basis	As all major components like USM, valves, transmitters are long lead items thus we request you to kindly extend delivery time to 8 months FOT basis	Refer to reply of S. no. 3 of Commercial Queries
6	MATERIAL REQUISITION FOR USM Check Meter P158-MRR-I006 Rev.CA (5.0 SCOPE OF SUPPLY)	Page 6 of 356	Transportation, Transit Insurance, loading and unloading of material at AGCL site/ stores;	Loading and unloading of material at AGCL site/ stores shall be in the purchaser's scope.	Unloading at site is in Bidder's scope.

7	MATERIAL REQUISITION FOR USM Check Meter P158-MRR-1006 Rev.CA (5.0 SCOPE OF SUPPLY, Note XII)	Page 7 of 356	All transportation, handling, Delivery (Mobilization of Crane, Manpower etc. as required for delivery) shall be in bidder's scope.	Internal mobilization activities at the site during unloading shall be in the purchaser's scope.	Internal mobilization activities are not in Bidder Scope.
---	---	---------------	--	--	---

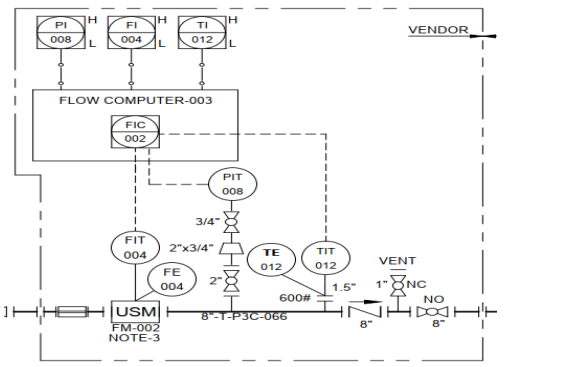
TECHNICAL QUERIES

1	MATERIAL REQUISITION FOR USM Check Meter P158-MRR-1006 Rev.CA No 5) (Clause	Page 5 of 356 & Page 12 o 356	USM Meter: Inlet X Outlet line size and rating:8" X 8" and 300# Flow Capacity Design =0.19 - 0.28 MMSCMD and Process Parameter in P&ID <table border="1" data-bbox="689 284 981 555"> <thead> <tr> <th colspan="2">ULTRASONIC METER</th> </tr> </thead> <tbody> <tr> <td>ITEM NO.</td> <td>FM-002</td> </tr> <tr> <td>SERVICE FLUID</td> <td>NATURAL GAS</td> </tr> <tr> <td>DESIGN FLOW RATE</td> <td>0.50 MMSCMD</td> </tr> <tr> <td>OPERATING FLOW RATE (MIN. / MAX.)</td> <td>0.19 - 0.28 MMSCMD</td> </tr> <tr> <td>INLET PRESSURE</td> <td>6.5 - 13.5 kg/ cm²g</td> </tr> <tr> <td>OUTLET PRESSURE</td> <td>6 - 13 kg/ cm²g</td> </tr> <tr> <td>MAX. INLET PRESSURE</td> <td>38.5 kg/ cm²g</td> </tr> <tr> <td>MAX. OUTLET PRESSURE</td> <td>38 kg/ cm²g</td> </tr> <tr> <td>DESIGN TEMPERATURE (MIN./MAX.)</td> <td>-29°C TO 65°C</td> </tr> <tr> <td>OPERATING TEMPERATURE</td> <td>20 - 30 °C</td> </tr> <tr> <td>MAX. OPERATING TEMPERATURE</td> <td>45°C</td> </tr> </tbody> </table>	ULTRASONIC METER		ITEM NO.	FM-002	SERVICE FLUID	NATURAL GAS	DESIGN FLOW RATE	0.50 MMSCMD	OPERATING FLOW RATE (MIN. / MAX.)	0.19 - 0.28 MMSCMD	INLET PRESSURE	6.5 - 13.5 kg/ cm ² g	OUTLET PRESSURE	6 - 13 kg/ cm ² g	MAX. INLET PRESSURE	38.5 kg/ cm ² g	MAX. OUTLET PRESSURE	38 kg/ cm ² g	DESIGN TEMPERATURE (MIN./MAX.)	-29°C TO 65°C	OPERATING TEMPERATURE	20 - 30 °C	MAX. OPERATING TEMPERATURE	45°C	As per SOR, the design capacity given is 0.19 to 0.28 MMSCMD and as per P&ID, the design capacity is 0.5 MMSCMD. AGCL / Pleco to confirm which flow rate, operating pressure & Temperature should be consider for design the meter-run. Also please provide the Design Pressure & Temp.	PLECO confirm that all process parameter to be consider as per P & ID. Operating Flowrate - 0.19 to 0.28 MMSCMD Design Capacity - 0.5 MMSCMD Operating Pressure - 6.5 to 13.5 kg/cm2g Operating Temperature - 20 to 30 degC Design Pressure - 49 kg/cm2g Design Temperature - (-29 to 65 degC)
ULTRASONIC METER																													
ITEM NO.	FM-002																												
SERVICE FLUID	NATURAL GAS																												
DESIGN FLOW RATE	0.50 MMSCMD																												
OPERATING FLOW RATE (MIN. / MAX.)	0.19 - 0.28 MMSCMD																												
INLET PRESSURE	6.5 - 13.5 kg/ cm ² g																												
OUTLET PRESSURE	6 - 13 kg/ cm ² g																												
MAX. INLET PRESSURE	38.5 kg/ cm ² g																												
MAX. OUTLET PRESSURE	38 kg/ cm ² g																												
DESIGN TEMPERATURE (MIN./MAX.)	-29°C TO 65°C																												
OPERATING TEMPERATURE	20 - 30 °C																												
MAX. OPERATING TEMPERATURE	45°C																												

2	MATERIAL REQUISITION FOR USM Check Meter P158-MRR-1006 Rev.CA No 5) (Clause	Page 6 of 356	Cable & Cabling from field instrument to Flow computer / Flow Controller etc.;	We understand that supply of Cable from Field to Control Panel is in the scope of Vendor. Cable Laying, Installation, Trenching, shall be in Scope of AGCL / Pleco. Please Confirm. Also, we request Pleco / AGCL to provide the Distance from Field to Control Room.	1. cable length to be conciderd 120 mtr. 2. cable laying & cable termination will be provided by others.
---	--	---------------	--	---	---

3	MATERIAL REQUISITION FOR USM Check Meter P158-MRR-1006 Rev.CA No 5, Notes : Xi) (Clause	Page 7 of 356	Vendor shall deliver the Metering at AGCL site LETEKUJAAN TERMINAL and the delivery schedule shall be 3 months FOT site basis.	With the current Situation, Wet Calibration Labs globally are running very loaded and calibration slot are not available in any of the Labs. Further the delivery of Transmitter (PT & TT) are still 36 Weeks. Looking to above challenges, We request AGCL to accept delivery of 7 Months from date of PO.	Refer to reply of S. no. 3 of Commercial Queries
---	--	---------------	--	---	--

4	MATERIAL REQUISITION FOR USM Check Meter P158-MRR-1006 Rev.CA 6) (Clause No	Page 7 of 356	The Vendor will warrant the equipment to be free of defects in material and workmanship and that it is adequately engineered to fulfill the design and operating conditions specified herein. The Vendor shall replace and install without cost to EPC Contractor any materials, supplies or equipment that fails under design conditions due to defects in design, material, or workmanship. If a defect is observed and/or such failure occurs within one (1) year from the date such equipment is put into operation, the Vendor shall replace and install without cost to EPC Contractor any materials, supplies or equipment involved. Vendor shall provide another twelve (12) months warranty period for any repair or replacement in whole or in part made during the warranty period beginning on the day of satisfactory restoration of services. If the repair or replacement during the warranty period concerns an essential component, the new warranty shall extend to the whole equipment.	Equipment / Material with Manufacturing defect shall be replace free of cost under warranty. However the Warranty of Replace Material shall not be extended.	Noted
---	--	---------------	--	--	-------

5	MATERIAL REQUISITION FOR USM Check Meter P158-MRR-1006 Rev.CA (P&ID)	Page 12 of 356		We understand the Vendor have to supply USM with Upstream & Downstream Spools. Downstream NRV, Ball Valve & Vent valve is not in scope of Vendor and shall be arrange by AGCL. Please Confirm	In Bidder's scope of supply.
6	MATERIAL REQUISITION FOR USM Check Meter P158-MRR-1006 Rev.CA Computer Datasheet (Flow)	Page 18 of 356	Approval Certification : Declaration of Conformity for NMI Approval, W&M Certificate will be provided.	For Flow computer, only Declaration for Conformity from NMI or any other metrology certification shall be provided. W&M is not available for the Flow computer. AGCL to Please confirm.	Confirmed
7	MATERIAL REQUISITION FOR USM Check Meter P158-MRR-1006 Rev.CA Flow Meter Datasheet (Ultrasonic)	Page 19 of 356	Approval Certification :	We understand that USM Shall be OIML Class 0.5 and OIML Clas 0.5 certificate for same shall be provided. Also USM shall have W&M Approval. AGCL to Confirm.	Confirmed
8	INSTRUMENTS QAP FOR	Page 19 of 356	EN 10204, Type 3.2 certificates shall be provided for bought out items. Those shall be inspected by TPI appointed by Vendor	We understand that 3.2 Certification shall be for Pipe, Flanges, Fittings. For Instrument i.e USM, PT, TT, Flow Computer, Valves, the certification shall be EN 10204 3.1. AGCL / Pleco to confirm	Confirmed
9	Ball Valve Datasheet	Page 131 of 356	Manufacturer shall have valid API 6D license to use API monogram.	We understand that Ball Valve shall be API 6D compliant and API 6D Compliance from Vendor shall be provided. API Monogram vendor are limited (Only 1 vendor) in india and hence same is not required for Natural Gas application.	Tender conditions shall prevail.
10	INSPECTION AND TEST PLAN FOR BALL VALVE	Page 224 of 356	Impact Test (@ - 29°C): for CS	With the Given MOC i.e. A105 / A216 Gr WCB, the Impact test shall be done @ 0 Deg C instead of -29 Deg C, as Impact test shall fail at -29 Deg C for the CS Material. AGCL / Pleco to Confirm	Tender conditions shall prevail.
11	Ball Valve Vendor	Page 224 of 356	-	We request AGCL to accept EIL Enlisted Vendor for the Ball Valve along with the Vendor List provided.	Bidder to follow attached Approved Vendor list in the Tender only.
12	Metering Skid Vendor	Page 342 of 356	-	We request AGCL to accept Bidder's referring to skid supplied to AGCL.	Noted. However BEC shall be met
13	MATERIAL REQUISITION FOR USM Check Meter P158-MRR-1006 Rev.CA	-	Impact Test (@ - 29°C): for CS	With the Given MOC i.e. A105 / A216 Gr WCB, the Impact test shall be done @ 0 Deg C instead of -29 Deg C, as Impact test shall fail at -29 Deg C for the CS Material. AGCL / Pleco to Confirm	Tender conditions shall prevail.
14	MATERIAL REQUISITION FOR USM Check Meter P158-MRR-1006 Rev.CA	-	Matching Flanges	AGCL to confirm, whether Matching Flanges shall be Provided by the bidder along with the System.	Not in Bidder's scope.

15	MATERIAL REQUISITION FOR USM Check Meter P158-MRR-1006 Rev.CA (5.0 SCOPE OF SUPPLY)	Page 6 of 356	Cable & Cabling from field instrument to Flow computer / Flow Controller etc.; PID Note: FLOW COMPUTER SHALL BE CONTROL ROOM PANEL MOUNTED.	Bidder will provide the Cable and cabling for field instruments till the skid JB only also bidder will provide the cable but cable laying at the site is excluded from Emerson's scope of supply. Please provide the total length of cable required from the skid boundy JB to the control room Flow computer. We will supply the cable as a loose.	Refer reply to S. No. 2 of Technical Query
16	P&ID FOR PIG RECEIVER AT NRL & CHECK METERING AT NRL & IGGL P158-00-PID-T001 (P&ID 1 OF 3)	Page 10 of 356	Requirement of Filtration skid and USM metering skid.	We understand these two numbers of skids are not part of this tender. For the same, we observe that you have floated a separate tender.Please confirm.	Bidder's understanding is correct.
17	P&ID FOR PIG RECEIVER AT NRL & CHECK METERING AT NRL & IGGL P158-00-PID-T001 (P&ID 3 OF 3)	Page 12 of 356	USM Meter runs downstream Check Valve and Manual ball valve requirement.	Bidder will supply the Meter Run assembly. Is this 8" NRV and ball Valve in our scope?	In Bidder's scope.
18	PIPING MATERIAL SPECIFICATION P158-PMS-P401 Rev. CB (PIPE GROUP / Pipe class P3C)	-	Piping Material for 8" Pipe line	8" Pipe material is not specified in the Piping class. It's up to 6" only. Pls advise PMS for 8" Pipe.	8" Pipe Material is available in the provided PMS. Refer Page No. 23 of 35 of PMS.
19	PIPING MATERIAL SPECIFICATION P158-PMS-P401 Rev. CB (PIPE GROUP / Pipe class P3C)	-	Charpy V notch test and hardness test shall be conducted for pipes, fittings and flanges at (-) 29°C.	As we understand the Operating temperature range is 20 - 30 °C only. Generally at this Temperature range, Charpy is not required. However, Emerson can supply the material as per Charpy requirements but Its impact on additional cost and delivery.	Tender conditions shall prevail. Bidder to perform Charpy test as per the Tender conditions without any additional cost and delivery.
20	MATERIAL REQUISITION FOR USM Check Meter P158-MRR-1006 Rev.CA (P&ID)	Page 10 of 356	Line size	Kindly confirm if vendor need to follow line size as per P&ID or need to do own sizing as per process parameter.	Line size as per P & ID to be followed by vendor. Vendor to clarify if his calculated size is different (say 6" etc.) and propose corrective action.
21	MATERIAL REQUISITION FOR USM Check Meter P158-MRR-1006 Rev.CA	Page 301 of 356	vendor list	Request to accept Autometers Energitec Ltd. (AEL) make Cartridge Filter for this tender. Also note that we are supplying AEL make Filters to most of the CGD as well as GAIL (India) Ltd. PTR is attached .	Tender conditions shall prevail.
22	MATERIAL REQUISITION FOR USM Check Meter P158-MRR-1006 Rev.CA	-	USM Specification	We understand that, the repeatability and meter performance should be considered as pe OIML 0.5 Accuracy class requirement with severe disturbance and flow conditioner make to be supplied as per the Type approval for 0.5 accuracy class OIML R137, please confirm.	Noted. However OIML R137 shall be met.

1. Bidder to submit signed and stamped copy of this Reply to Pre-Bid Queries along with Un-Price Bid .