

REPLIES TO BIDDER'S PRE BID QUERIES

DATE :25-11-2023

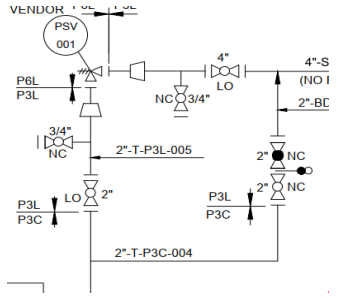
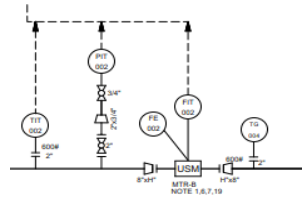
PROCUREMENT OF METERING SKID

Tender no : AGCL/PROJ/METER SKID/2023/03 Dated: 30.10.2023

Sl. No.	Tender Clause No./ Annexures	Page No.	Tender Description	Bidder's Query	PLECO / AGCL Response
General					
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	PID	-	Isolation valve for z Configuration line	We recommend double Isolation valves for Z- Configuration. Please confirm	Confirmed
5	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
6	-	-	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 Due Date	Kindly extend bid due date till 24/11/2023	Refer to reply of S. No. 03 of General Queries
2	MR FOR METERING SKID CL.5.0; Scope of supply (Note-xi)	Page No. 7 of 415	Vendor shall deliver the Metering skid at AGCL site LETEKUJAAN TERMINAL and the delivery schedule shall be 5 months 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. Ultrasonic Meters are sourced from overseas factories and envisages wet calibration at third party laboratories which are long lead activities. Hence the standard delivery is 8 months. Request acceptance of the same. Please confirm.	Refer Corrigendum#2 dtd:- 25/11/2023
3	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. 03 of General Queries
4	MR FOR METERING SKID CL.5.0; Scope of supply	Page 6 of 415	Transportation, Transit Insurance, loading and unloading of material at AGCL site/ stores;	Request acceptance of Loading and unloading of material at AGCL site/ stores in the purchaser's scope as it is difficult to arrange unloading arrangement at AGCL site / store.	Unloading at site is in Bidder's scope.
5	MR FOR METERING SKID CL.5.0; Scope of supply	Page 6 of 415	All transportation, handling, Delivery (Mobilization of Crane, Manpower etc. as required for delivery) shall be in bidder's scope.	Request arranging of Internal mobilization activities in the purchaser's scope as it is difficult to arrange the same at AGCL site / Stores.	Internal mobilization activities are not in Bidder's scope

TECHNICAL QUERIES

1	MR FOR METERING SKID	Page No. 10 of 415	P&ID	Kindly confirm if vendor need to follow line size as per P&ID or need to do own sizing as per process parameter.	Vender to follow PID line size																								
2	MR FOR METERING SKID (LIST OF APPROVED PARTIES FOR BOUGHT OUT ITEMS)	Page No. 375 of 415	xiv) DRY GAS FILTER & FILTER SEPERATOR	Request to accept Bidder's make Cartridge Filter for this tender. Also note that we are supplying Filters to most of the CGD as well as GAIL (India) Ltd. PTR is attached .	Tender condition shall prevail.																								
3	Clause No 5	Page 5 of 415 & Page 10 o 415	<p>Filter + Metering Skid: 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</p> <table border="1" data-bbox="698 384 1041 700"> <thead> <tr> <th colspan="2">METERING SKID</th> </tr> </thead> <tbody> <tr> <td>ITEM NO.</td> <td>MS-001</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>8 - 15 kg/ cm²g</td> </tr> <tr> <td>OUTLET PRESSURE</td> <td>7.5 - 14.5 kg/ cm²g</td> </tr> <tr> <td>DESIGN PRESSURE</td> <td>49 kg/ cm²g</td> </tr> <tr> <td>OPERATION PHILOSOPHY</td> <td>1W+1S</td> </tr> <tr> <td>DESIGN TEMPERATURE (MIN./MAX)</td> <td>-29°C TO 65°C</td> </tr> <tr> <td>PRESSURE DROP</td> <td>0.5 kg/cm²</td> </tr> <tr> <td>OPERATING TEMPERATURE</td> <td>20 - 30 °C</td> </tr> </tbody> </table>	METERING SKID		ITEM NO.	MS-001	SERVICE FLUID	NATURAL GAS	DESIGN FLOW RATE	0.50 MMSCMD	OPERATING FLOW RATE (MIN. / MAX.)	0.19 - 0.28 MMSCMD	INLET PRESSURE	8 - 15 kg/ cm ² g	OUTLET PRESSURE	7.5 - 14.5 kg/ cm ² g	DESIGN PRESSURE	49 kg/ cm ² g	OPERATION PHILOSOPHY	1W+1S	DESIGN TEMPERATURE (MIN./MAX)	-29°C TO 65°C	PRESSURE DROP	0.5 kg/cm ²	OPERATING TEMPERATURE	20 - 30 °C	<p>As per SOR, the design capacity given is 0.19 to 0.28 MMSCMD and as per P&ID, the design capacity is 0.5MMSCMD. 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.</p>	<p>All the process parameter to be consider as per P & ID.</p> <p>Operating Flowrate - 0.19 to 0.28 MMSCMD Design Capacity - 0.5 MMSCMD Operating Pressure - 8 to 15 kg/cm2g Operating Temperature - 20 to 30 degC Design Pressure - 49 kg/cm2g Design Temperature - (-29 to 65 degC)</p>
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4	Clause No 5	Page 6 of 415	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.	<ol style="list-style-type: none"> 1. cable length to be conciderd 120 mtr. 2. cable laying & cable termination will be provided by others. 																								
5	Clause No 5 Notes : Xi	Page 7 of 415	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. 02 of Commercial Queries																								
6	MR FOR METERING SKID CL.5.0; Scope of supply	Page 7 of 415	<p>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.</p> <p>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.</p>	Equipment / Material with Manufacturing defect shall be replace free of cost under warranty. However the Warranty of Replace Material shall not be extended.	Noted																								

7	MR FOR METERING SKID (P&ID)	Page 10 of 415	Instrument Isolation Valve - 2 Inch 150#	As per Best engineering Practice and to avoid Gas leakage, we request AGCL / Pleco to consider 3/4" 800# - SW NPT Valve for all the Instrument connection instead of 2 Inch Flanged End Connection.	vender to consider 2" 600# as per PID.
8	MR FOR METERING SKID (P&ID)	Page 10 of 415		For Gas application, By-pass connection on the PSV is not recommended looking to operation & Safety view. We shall provided Separate Lines for the Vent & PSV from the Filter vessel as per best engineering practice.	Bidder is requested to clarify & elaborate the operation and safety requirement view and mentioned specify the engineering standard recommending same. However, PLECO confirm that it is acceptable to provide two separate lines for PSV-001/002 arrangement & By-pass vent line arrangement from filter & vessel as per best engineering practice.
9	MR FOR METERING SKID (P&ID)	Page 10 of 415		We understand that, the size of the entire skid (excluding meter and meter runs) shall be as per the sizes mentioned in the P&ID provided in the tender document. Meter shall be designed considering velocity limit of 20 m/s. Please confirm Also PT shall be installed in the Downstream of the Meter.	1. Confirmed 2. Confirmed
10	MR FOR METERING SKID (P&ID)	Page 10 of 415	Gas detectors to be provided in down wind direction near flow meters, PIG barrels to monitor leakage from failure prone equipment parts, accessories, valve & pipes.	Please confirm the requirement of the Gas Detectors. If required, Please confirm the qty required for each type of the skid.	Supply of gas detectors is excluded from the scope of supply of bidder .
11	Filter Datasheet	Page 14 of 415	Code Stamping (U STAMPED)	For Natural Gas application, U Stamp is not requisite. Also due to Limited U stamp TPI body in India, the Delivery time of U Stamp Filter vessel is longer. Request AGCL to Accept the ASME Sec VIII for the Filter Vessel and Filter Vessel Fabrication in U Stamp Facility.	Tender condition shall prevail.
12	Filter Datasheet	Page 14 of 415	Filter element make shall be PECO, VELCON , PALL - FILTERITE & BURGESS MANNING.	Peco & Velcon are same and have longer lead time in delivery of Element (1 Year). We Request AGCL / Pleco to accept other reputed vendor for the same.	Tender condition shall prevail.
13	Flow Computer Datasheet	Page 18 of 415	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
14	Ultrasonic Flow Meter Datasheet	Page 19 of 415	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
15	QAP FOR INSTRUMENTS	Page 19 of 415	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

16	Process Datasheet Clause 4	Page 30 of 415	Allowable pressure drop: 0.5 Kg/cm2	As the Skid size is already freezed by Customer, we understand that, the pressure drop shall not be the criteria for designing the entire skid. Bidder has to take care for designg the filter with the pressure drop as mentioned in the Filter datasheet in the tender document. Please confirm.	It is understood and accepted that bidder has to design & select the filter vendor to match the max. allowable pressure drop @0.5 kg/cm2g.
17	Process Datasheet Clause 5	Page 30 of 415	The meters shall be installed in 300#, Carbon steel piping system in accordance with Piping Material Specification, Piping Class 30HC	As per P&ID & SOR, PMS defined is P3C, however is Process Datasheet is mention 30HC. We understand we have to follow P3C PMS for the skid. AGCL to confirm.	Bidders understanding is correct.PLECO confirm that piping specification is to followed P3C.
18	Process Datasheet Clause 7	Page 30 of 415	Power Supply for 110V AC for electronic available.	We understand that 230 VAC power supply shall be made available in the control room at one point near the panel. Please confirm.	bidder will be provided 230 VAC power supply. Any other power supply required will be driven by the vender by using 230 VACpower supply.
19	Process Datasheet Clause 9.8	Page 31 of 415	The PLC based flow computer shall consist of Pressure indicating Controller (PIC) module also to control pressure of individual PCV's which are part of pressure regulation skid.	Please confirm the Quantity of the PCV's to be controlled through the flow computer.	Metering skid has no PCVs. PLC based flow computer not required
20	Process Datasheet Clause 9.9	Page 31 of 415	Metering Panel shall be enabled remote condition based monitoring for Ultrasonic meter & station computer.	Please clarify the remote monitoring requirement.	Required
21	Ball Valve Datasheet	Page 131 of 415	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 condition shall prevail.
22	INSPECTION AND TEST PLAN FOR BALL VALVE	Page 224 of 415	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 condition shall prevail.
23	Ball Valve Vendor	Page 224 of 415	-	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.
24	Metering Skid Vendor	Page342 of 415	-	We request AGCL to accept Bidder's referring to skid supplied to AGCL.	Noted. However BEC shall be prevail
25	PMS	Page347 of 415	Pipe for Size above 6 Inch	We understand that Pipe for size above 6 Inch shall be ASTM A 106 Gr B (Charpy) and Sch STD. AGCL to Confirm	Bidder shall follow Piping Material Specification attached with Volume II of II.
26	Filter Vendor	-	-	We request AGCL to accept Flashpoint Equipment for the Filter & QOEC referring to Filter supplied to AGCL and other PSU like GAIL / EIL/ ONGC / HPCL etc.	Accepted
27	MR FOR METERING SKID	-	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 condition shall prevail.
28	MR FOR METERING SKID	-	Matching Flanges	AGCL to confirm, whether Matching Flanges shall be Provided by the bidder along with the System.	Not in Bidder's scope.

29	MR FOR METERING SKID	-	Scope for Cables, Calbe tray etc from Skid to Control room	We understand that interskid cables form Instruments/valves to Skid mounted Junction Boxes shall be in Bidders scope. Cables form skid Junction boxes to control panel in the contol room shall be in customrs scope for each group. Also, cables from PDB , RTU panel shall also in customers scope. Please confirm.	Refer reply to S. No. 4 of Technical Query
30	MR FOR METERING SKID	-	Supervisory Computer (HMI)	We understand that Supervisory computer is not required for any group item. Please confirm.	Flow computer is enough, external HMI is not required.
31	MR FOR METERING SKID P158-MRR-I003 Rev.CA (CL. 5.0 scope of supply)	Page 6 of 415	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. Further please confirm the total length of cable required from the skid boundy JB to the control room Flow computer. We will supply the cable loose. however cable laying at the site is excluded from our scope. Please confirm	Cable laying not in scope. Refer reply to S. No. 4 of Technical Query
32	MR FOR METERING SKID P158-MRR-I003 Rev.CA (PID 3 of 3)	Page 12 of 415	Requirement of 2 (two) GUSM meter run. Tag No FM-001 and FM-002	We understand these two numbers USM check meters are not part of this tender. For this, we observe that you have floated a separate tender. Please confirm.	Bidder's understanding is correct
33	PIPING MATERIAL SPECIFICATION P158-PMS-P401 Rev. CB (PIPE GROUP / Pipe class P3C)	Page 347 of 415	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.
34	PIPING MATERIAL SPECIFICATION P158-PMS-P401 Rev. CB (PIPE GROUP / Pipe class P3C)	Page 347 of 415	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. Please confirm as it envisages additional cost and delivery.	Tender conditions shall prevail. Bidder to perform Charpy test as per the Tender conditions without any additional cost and delivery.
35	Datasheet of Cartridge Filter for Dispatch Station Letekujan Doc no.: P158-DSH-M001 (DESIGN CONSIDERATION Sr. No28)	Page 14 of 415	CODE STAMPING (U STAMPED) required for Filter	As per industry standard U Stamping is not envisaged for filter in all PSU tenders of GAIL / IOCL etc. Please confirm on this requirement.	Tender condition shall prevail.

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