



**REPLY TO BIDDER'S PRE-BID QUERIES FOR ARC TENDER FOR SUPPLY OF METERING SKIDS**

Customer : GAIL (India Ltd)

Project ref : 034-LEPL-GAIL-08

E-Tender Ref : 8000014808

Date : 17.07.2019

Subject: ARC INVENTORY CREATION PROJECT FOR LAST MILE CONNECTIVITY (METERING SKIDS)

Sr. No.	Tender Clause No. / Page No.	Description	Bidder's Query	GAIL/LEPL Reply
1	Technical Requirement; 750 of 935	3.4.19 The filter shall be provided with Quick Opening Closure (if specified in the data sheet) for easy removal & replacement of filter elements for maintenance. The diameter of QOC shall be same diameter as that of main vessel and shall conform to all applicable ASME code requirements and will carry ASME U Stamp.	We understand that Filter & QEOC both are U stamp . Please confirm our understanding is correct.	Bidders understanding is correct
2	Technical specification & Datasheet;	5.4 Pressure drop across Filter in clean condition as 0.1 kg/cm <sup>2</sup> & dirty condition as 0.2 kg/cm <sup>2</sup>	You are requested to allow pressure drop across filter in clean condition as 0.2 kg/cm <sup>2</sup> and in dirty condition as 0.5 kg/cm <sup>2</sup> only for SOR-I of 13000 SCMh capacity only. Same was accepted by GAIL in other past tender of CGD connectivity. Please confirm.	Confirmed
3	Table -B; 11 of 935	Filteration Capacity for SOR-I is 150% whereas for SOR-II to 6 is 125%.	We understand that Filteration Capacity for SOR-I is 125% only. Same was there in GAIL in past CGD tender. This will optimise the overall Filter Vessel design. Please confirm our understanding is correct.	For SOR Item No.1 Filteration Capacity for SOR-I is 125%.



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4		6.1.1 Certifications shall be in accordance to EN 10204 Type 3.2 for pressure parts and Type 2.2 for other parts	<p>We understand that requirement of 3.2 certification is for material traceability through TPI at various stages like isolation valves, pipe, flanges, fittings, Mechanical components.</p> <p>The 3.2 certification requirement for instrument like flow meter (USM/Turbine/RPD) which has complex multi-component assemblies is very unusual and not possible to provide with global international manufacturers.</p> <p>Maximum meter manufacture are reputed global companies and meters are manufactured under stringent quality norms and performing all the necessary tests as per guideline and submit the necessary reports like Material Test Report, Hydrotest report etc. for review.</p> <p>We confirm that we will conduct all the tests as per tender requirement and customer/TPI can review the same as per standard practice in GAIL various tenders.</p> <p>Hence we request you to review the requirement of 3.2 certification for meter and and waveoff the same in favor of project and allow 3.1 certification for flow meter (USM/Turbine/RPD). However we will provide 3.2 certification for other skid items as per tender requirement.</p> <p>This clause is accepted by GAIL in past tender 80000013509.</p>	Tender condition prevails.
5	Table-C; 36 of 935	Requirement of Pilot Heater	We understand that Pilot Heater is required for #600 rating skid (SOR-I & V). Please confirm our understanding is correct.	Bidder understanding is correct.
6	Vendor List for Ball Valve; 861 of 935	Ball Valve Vendor List	<p>We understand that there are only 4 Indian bidders available in AVL of ball valves. i.e Virgo/L&amp;T/Microfinish/Flowchem. All other are foreign manufacturer and have major impact on delivery. Amongst Indian bidder Virgo and L&amp;T delivery is substantial higher (8-10 months approx). In this scenario, we have only option left is Microfinish and Flowchem.</p> <p>You are requested to confirm whether we have to follow tender vendor list strictly for ball valve or other ball valve vendors who has already supplied to GAIL in past project is acceptable with submission of PTR.</p> <p>You are requested to provide more clarity on specifically ball valve vendor at bidding stage itself which will help us to consider our bid prices accordingly.</p>	Bidder to strictly follow the vendor list provided in the tender document no other make of valve manufacturer is acceptable.



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7	Vendor List for QEOC; 860 of 935	QEOC Vendor List	We understand that there is only one Indian manufacturer available in AVL of QEOC i.e TD Williamsons. You are requested to confirm whether we have to follow tender vendor list strictly for QEOC or other QEOC vendors who has already supplied to GAIL in past project is acceptable with submission of PTR. You are requested to provide more clarity on specifically QEOC vendor at bidding stage itself which will help us to consider our bid prices accordingly.	Bidder to strictly follow the vendor list provided in the tender document no other make of QEOC manufacturer is acceptable.
8	Vendor List for Dry Gas Filter; 860 of 935	Dry Gas Filter Vendor List	You are requested to confirm whether we have to follow tender vendor list strictly for Dry Gas Filter or other Filter manufacturers who has already supplied to GAIL in past project is acceptable with submission of PTR. You are requested to provide more clarity on specifically on Dry Gas Filter vendor at bidding stage itself which will help us to consider our bid prices accordingly.	Tender condition prevails.
9	Table-A Scope of Work; 10 of 935	Field& panel Mounted FC -SOR-IV	Please clarify for SOR-4 of USM , does we need to supply Field & panel Mounted FC.	Bidder to supply field as well as control room mounted flow computer with Solar Panel and Battery as per Tender.
10	Scope of Work & Supply (Project Specific); 22 of 935	2.2.2/16 A common vent header with flame arrestor along with flapper shall be provided.	All vents are released 3 meter height from the ground level along with the flapper. Since skid is very big with 4 PRS stream, it is not possible to have common vent header connected. It is also not possible from design & manufacturing point of view. Please confirm that common vent header and flame arrestor is not required	vendor may supply with different vent hadders at the venting points. However bidder should also supply flapper along with each vent hadder.



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11	Scope of Work & Supply (Project Specific) & P & ID; 29 of 935	3.7.7 i) All the vent / drain lines shall have combination of first valve as Ball valve and second one as Globe/ plug valve. All the drain valves on the main lines shall be of ¾" size for main lines up to 4". All the drain valves on the main lines shall be of 1" size for main lines above 4". All the vent valves shall be of 1" size for main lines up to 6" and vent valves shall be of 2" size for main line sizes above 6". which is contradictory with P&ID. ii) Globe Valve of 1" required for Drain	We understand that we have to follow vent & drain valve size as per description given in clause no. 3.7.7. P&ID is only for refernece to understand the qty of valves/instrument. Please confirm our understanding is correct.	Bidder understanding is correct.
12	Filter Datasheet; 429 of 935	i) Filtration Efficiency: Liquid & Solid Particles of 3 Micron and above with 99% efficiency	We understand that we have to supply Dry Gas Filter which shall remove Solid Particles of 3 Micron and above with 99% efficiency . Please confrim our uderstanding is correct.	Bidder understanding is correct.
13		Design Temperature	Kindly provide design temperature and workign temperature at inlet of PRS and Outlet of PRS for all SOR.	Design Temperature Range (for Design/ selection of Material of equipments, MOC): -29 deg C to 65 deg C and operating temperature shall be as per site conditions and cant be confirmed at this stage.
14	Scope of Work (Project Specific); 19 of 935	LTCS of all material shall be considered at downstream of Pressure regulator including PCV (Active and Monitor) for SOR Item No. 1 and 5.	We understand that LTCS material is required only for #600 rating skid (SOR-I &V) at downstream of Pressure Regulating including PCV (Active & Monitor). Please confirm our understandign is correct.	Bidders understanding is correct
15	Datasheet; 417,424 od 935	2.2.2.d Case material shown in TG datasheet is SS 316. However Case material shown in PG & DPG datasheet is Die-cast Aluminium .	Generally case material SS316 is acceptable for PG & DPG. So kindly provide your acceptance.	Case material SS316 is acceptable for PG & DPG



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16	Scope of Work & Supply (Project Specific):15 of 935	2.2.2, 15)	Flow computers : Field mounted flow computers shall have at least 4 no. of ports (for Serial/ TCI/IP interface connection). Out of these 1 no. shall be Ethernet port and balance shall be serial ports (1 no. of USB port shall be provided).	Please note that field mounted flow computer like FB107 comes with three communication ports which are sufficient for application. the same is inline with datasheet of flow computer given in tender. 1. RS232 - local laptop communication through USB-serial convertor 2. RS232 - for connection with GPRS modem 3. RS485 - SPARE / direct connection with RTU/SCADA Please confirm acceptance	Confirmed
17	RPD Meter Datasheet; 449 of 935	12	Minimum 10D upstream with flow straightener & 5D downstream shall be provided with meter	No upsteram/downstream straightlength is required for RPD meter. Please confrim your acceptatnce.	Confirmed
18			Requireemnt of LEL Detector	We understand that there is no requireemnt LEL detector for all SOR. Please confirm.	Confirmed
19			Requirement of GC	We understand that there is no requirement of GC for USM skid. Please confirm.	Confirmed
20			Requirement of Laptop	We understand that Laptop is required only for SOR-IV of USM skid. Please confrim our understanding si correct.	Bidders understanding is correct
21			Wet Calibration Pressure for SOR-III , IV & V	We understand that #150 rating skid (SOR-III , IV & V) , meter is required to calibrate at average operating pressure range only. Please confir our understanding is correct.	Bidders understanding is correct
22	Sec-I-IFB; 4 of 116	2.d	Delivery period for the SOR item No. 1, 2, 3 & 5 under rate Contract shall be 6 months on FOT dispatch point. Delivery period for the SOR item No. 4 under rate Contract shall be 7 months on FOT dispatch point.	Considering wet calibration of Turbine & USM at Europe, it will have substantial impact on skid delivery. You are requested to allow skid delivery as follows. 1. Delivery period for the SOR item No. 1, 2, 3 & 5 shall be 7 months. 2. Delivery period for the SOR item No. 4 shall be 8 months. Kindly provide your acceptatnce for the same.	Tender condition prevails.
23	Bid Evaluation Criteria		The size & rating of the Gas Flow Meter (USM/Turbine Flow Meter) in the supplied Metering Skids to qualify against 4.1.1 (i) shall be of the quoted size & rating or higher.	We request you to accept the supply reference of 150# rating for Gas Flow Meter ( USM/Turbine Flow Meter) to qualify against 4.1.1 (i) of the quoted size or higher.	Tender condition prevails.



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24	Detailed Process and design conditions Pg. No. 35 of 935	SOR: 2 Inlet: 19 to 35 Kg/cm <sup>2</sup> , Outlet: 12 to 35 Kg/cm <sup>2</sup> SOR: 3 Inlet: 5 to 10 Kg/cm <sup>2</sup> , Outlet: 4 to 7 Kg/cm <sup>2</sup>	For Sizing and selection of regulator Minimum Inlet pressure and Maximum Outlet Pressure at Maximum Flow will be consider. But as per current process parameter Maximum Outlet is greater than Minimum Inlet pressure which is not suitable, kindly advice the differential pressure needs to be consider for selection of regulator.	Confirmed
25	P&ID Pg. No.77 of 935	Pilot Heater	In considering process condition of SOR-2,SOR-3,SOR-4 Pilot heater is not required as the skid is 300# & 150CL.	Refer to reply to Point No. 5 above.
26	P&ID SOR 1,2 and 3 & Scope of Work Page No 11 of 935 Volume II Technical	Filter Shall be desing for 125% of Flow Capacity as per P&ID and 150% as per Table B of Scope of Work on page No 11	Please clarify Filter to be design for 125% or 150% for SOR1	Refer the reply to query No.3
27	4.2 Detailed Process and design conditions is mentioned in following Table-C: Page NO 35 of 935	Turbine Meter Calibration	We understand for SOR1 G400 Turbine Meter and SOR2 G650 Turbine Meter Gail Hazira Calibration Facility is acceptable for wet calibration. Kindly confirm	Bidder may opt for the GAIL Hazira calibration Facility as per available calibration scope/facility at GAIL Hazira.
28	SCOPE OF WORK 2.1.1 (b)	The PRS/ Metering sections of lower capacity shall be separated from full capacity PRS/ metering section by flange joint and additional isolation ball valve of required size shall be provided to remove these PRS / Metering for their utilization elsewhere.	Our understanding is, we can separate a skids like, One is filter and its Components, Other is 100% flow streams and another is 10% flow streams.	10% stream shall be hooked up with 100% stream in such a way that it is saperable with 100% stream.
29	SCOPE OF WORK 16 pg.no. 23	Tapping with valve required for PG connection shall be of 3/4". PG shall have 1/2" NPT(M) as process connection.	Since PG has a 1/2" NPT(M) as process connection. Can we consider the tapping with valve also 1/2" itself. Please confirm.	Tender condition prevails
30	Approved Vendor List	RPD Meter Approved Make	M/s Raychem RPD Meter are accepted across all CGD. They are already accepted for 300# RPD meter. Kindly accept their 150# RPD meter for this tender	Tender condition prevails



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31	Delivery schedule and 3.2 Certification	Delivery schedule and 3.2 Certification	We request GAIL to consider 3.1 Certification for this project. In other case, For 3.2 Certification - we would request GAIL to provide below delivery schedule: 1. Atleast 7 months for Skids without FCV 2. Atleast 9 months for Skids with FCV  PI note: Above schedule is based on delivery periods of various components of skids provide by vendors.	Refer the reply to query No. 4. for other material tender condition shall prevails.
32	5.0 EVALUATION METHODOLOGY Page 18 of 116. Point No 5.5	GAIL intends to place more than one 1 (one) order for SOR Item 1.0 for Qty. 27 Nos. Methodology for distribution of quantity for award of Rate Contract shall be as under.	We understand Split Clause of tender quantity is applicable only for SOR1 not for other SOR. Please confirm	Bidder's understanding is correct.
33	Bid Security	In case a bidder quote for more than one item, the bidder shall be required to submit bid security on cumulative basis. The details of Bid security on cumulative basis if bidder is quoting for more than one item shall be as under;	In the provide table for bid security on cumulative basis item 1,2,3,5 combination is not provided, Kindly confirm bid security amount for the same.	Please refer Corrigendum #1.
34	Transit Insurance Pg. No. 115 of 116	The price quoted must include transit Insurance charges, transit Insurance shall be arranged and borne by the Supplier.	We request Gail to accept Transit Insurance under their scope.	Tender condition prevail.
35	Guarantee Clause 6 Pg. 113 of 116	The complete Skid package within the scope of this contract shall be guaranteed for a period of twelve (12) months from the date of commissioning or twenty four (24) months from the date of delivery at GAIL's store / site; whichever is earlier.	We request Gail to change the term Guarantee to Warranty and accept twelve(12) months from the date of commissioning or twenty four (24) months from the date of delivery at GAIL's store / site; whichever is earlier.	Tender condition prevail.



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36	Fall Clause- GCC Pg. 25 of 26	GCC Clause 38 Fall Clause.	We request Gail to delete Fall Clause from current tender as this is a Project job.	Tender condition prevail.
37	GUARANTEE GCC Pg. No. 16 of 26	Repaired or replaced materials shall be similarly guaranteed by the SELLER for a period of no less than twelve (12) months from the date of replacement/repair.	Kindly accept ,Point no 2 .The warranty for the repaired or replaced part will be warrantied for a period of 3 months from the time of repair or replacement to a maximum of its original warranty period which ever is earlier.	Tender condition prevail.
38	Arbitration- GCC Clause 30.4 Pg.no.22 of 26	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.	Kindly accept , Arbitration panel shall consist of 3 arbitrators each party shall appoint 1 arbitrator and those 2 shall appoint an umpire, if required.	Tender condition prevail.