 MAHARASHTRA NATURAL GAS LIMITED	REPLY TO BIDDERS QUERIES AGAINST TENDER FOR RATE CONTRACT FOR THE PERIOD OF 2 YEARS FOR PROCUREMENT OF DRS FOR CGD NETWORK OF MNGL, PUNE Bid No.: MNGL/C&P/2017-18/62
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Date: 04.10.2017

Replies to Queries of the Bidders


SUB: Replies to queries of the bidders for Tender for rate contract for the period of 2 years for procurement of DRS for CGD Network of MNGL, Pune

REF: Bid Document No. MNGL/C&P/2017-18/62 dated 11.09.2017


Dear Sir,

Following are the replies to queries of the bidders. Kindly note the same.


Sl. No.	Bidder's Query / Clarification	MNGL' Reply
	Commercial	
1	Extension of due date of submission of bid	Due date of submission of Bid is extended upto 13.10.2017, 15:00 hours
2	Cl. No. 2 - Scope of Work (Page No. 6 of 113) Erection of Skid & Hook up with existing pipeline is included in Bidder's scope. Kindly confirm that only supervision of erection/ installation and commissioning is in bidders scope.	Hook up with existing pipeline is in MNGL's scope. Shifting of DRS along with installation & commissioning is in bidder's scope.
3	Cl. No. 2 - Scope of Work (Page No. 6 of 113) Transportation of DRS from MNGL's Stores to designated site is in Bidder's scope. Kindly confirm the distance of each site from MNGL Stores to estimate the logistics.	Please note that DRS is to be transferred from Stores at Fursungi to any site in Pune, Pimpri – Chinchwad and adjoining areas of Chakan, Talegaon & Hinjewadi as per the requirement.
4	Cl. No. 26.1.1 (Page No. 50 of 113) Price Reduction Schedule For Delayed Delivery: In case of delay in delivery of equipment/materials or delay in completion, total contract price shall be reduced by ½ % (half percent) of the total contract price per complete week of delay or part thereof subject to a maximum of 5% (five percent) of the total contract price. We understand that PRS shall be applicable on	Please refer Cl. No. 9 of Special conditions of contract (Page No. 86 of 113) for Price Reduction Schedule. PRS shall be applicable on undelivered portion subject to maximum of 5% of Delivery Order value.

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	<p>undelivered portion and order value of undelivered portion only, not on the total order value. MNGL requested to confirm that our understanding is correct.</p>	
5	<p>Cl. No. 26.1.1 (Page No. 50 of 113) Price Reduction Schedule For Delayed Delivery: In case of delay in delivery of equipment/materials or delay in completion, total contract price shall be reduced by ½ % (half percent) of the total contract price per complete week of delay or part thereof subject to a maximum of 5% (five percent) of the total contract price.</p> <p>If the answer to the above query is "Tender conditions prevails" than it would be very unfair to the bidder. If we take a case, what if only 1 no. of skid from lot of 10 nos of skid get delay and bidder would be punished for LD for 10 nos of skids. We again request MNGL to look in to PRS clause and provide acceptance for LD on only undelivered portion.</p>	<p>Please refer Cl. No. 9 of Special conditions of contract (Page No. 86 of 113) for Price Reduction Schedule. PRS shall be applicable on undelivered portion subject to maximum of 5% of Delivery Order value.</p>
6	<p>SOR: Supervision during Installation, Testing and Commissioning</p> <p>We understand that the charges for Supervision of skid shall be quoted for whole Line item package per unit quantity and not as per manday.</p> <p>MNGL requested to confirm that our understanding is correct.</p>	<p>Bidders understanding is correct.</p>
7	<p>Liability Pg.no.40</p> <p>Clause 11.3. and 11.4 of GCC</p> <p>PI add and accept "Liability of the seller under this clause shall only be towards injury, death or property damage caused to the extent of negligence of the seller"</p>	<p>Tender condition prevails.</p>
8	<p>Inspection Pg.no.41</p> <p>Clause 13, Inspection of GCC</p> <p>PI confirm "Loading, boarding, travelling or any other charges towards the inspectors shall be in Purchaser's account"</p>	<p>Loading, boarding, travelling or any other charges towards the third party inspectors appointed by MNGL shall be in Purchaser's account.</p>

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9	Delivery term Pg.no.44 Clause 16 of GCC Delivery term to be Ex-Works Seller's facility and transit insurance to be in scope of Purchaser.	Please refer Cl. No. 7 (Delivery Schedule) of Special conditions of Contract (Page No. 85 of 113) & Cl. No. 2 (Scope & Quantity of Supply) of BEC (Page No. 6 of 113).
10	Spare Parts, Maintenance Tools, Lubricants Pg.no.46 provide "blueprint, drawings" Clause 19.1.2 of GCC We will not provide "blueprint, drawings" spare part component; please accept.	Tender condition prevails.
11	Delays In The Seller's Performance Pg.no.50 Clause 25 of GCC PI Add the words, "Rights of Purchaser under this section shall be subject to Purchaser giving advance written notice of default to Seller and Seller's failure in rectifying the default in reasonable period"	Tender condition prevails.
12	Arbitration Pg.no.54 Clause 30.4 of GCC PI accept "Arbitration panel shall consist of 3 arbitrator, each party shall appoint 1 arbitrator and those 2 shall appoint an umpire".	Tender condition prevails.
13	Books & Records Pg.no.55 Clause 34 of GCC Kindly confirm that its not applicable	Tender condition prevails.
14	Permits & Certificates Pg.no.55 Clause 35 of GCC Kindly Confirm which permit and certificates are required.	Tender condition prevails.
15	Fall Clause Pg.no.56 Clause 38 of GCC PI provide deviation as below: Fall Clause The price charged for the materials supplied under the order by the supplier shall in no event exceed	Tender condition prevails.

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	<p>the lowest price at which the supplier sells the materials of identical description and quantity to any person / organizations including the Purchaser or any department of the Central Govt. or any Department of a State Govt. or any Statutory undertaking of the Central or State Govt., as the case may be, during the currency of the Order.</p> <p>The above stipulation will, however, not apply to :</p> <p>a) Exports by the Contractor/Supplier or b) Sale of goods as original equipment at prices lower than the prices charged for normal replacement”</p>	
16	<p>Guarantee in GCC Cl 20.1 Guarantee (second last para)</p> <p>Pl accept Repaired or replaced materials shall be similarly guaranteed by the SELLER for a period of no less than three months from the date of replacement/repair “or remainder of the original warranty period, whichever is later”.</p>	Tender condition prevails.
17	<p>Kindly clarify whether DRS is to be transported at various locations or at a single point? If at a single point, kindly clarify whether shifting to various sites / installation at site and hookup with existing pipeline is in DRS supplier's scope?</p>	<p>Please refer Cl. No. 2 of BEC (Page No. 6 of 113): The Scope includes Design, Detail Engineering, manufacturing, assembly, calibration of instruments, factory testing / inspection, supply of skid mounted DRS including packaging, insurance, handling, transportation, loading / unloading at MNGL Stores / sites, Erection including transportation of DRS from MNGL's Stores to designated site, performance testing, all related services including configuration of instruments, site acceptance testing, trial run and commissioning along with all accessories, consumables & Commissioning spares as per Material Requisition and specifications and training on</p>

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		Operation & Maintenance of MNGL O&M Staff on DRS including supply of other mandatory spares like Integral PCV/SSV Springs, Diaphragm for Integral PCV / SSV etc. as per tender terms & conditions.
	Technical	
1	Cabinet requirement (Page No. 95 of 113) Kindly confirm whether Cabinet should be painted or Powder coated.	Cabinet should be painted.
2	Spares requirement (Page No. 97 of 113) We understand that List of Spare Parts provided by MNGL is Recommended Spare parts list. Kindly confirm that Bidder has to provide prices for this list separately and these prices will not be considered for evaluation. Kindly provide the Price format to submit our prices.	Bidders understanding is correct. Please use same format as per SOR.
3	Mandatory Spares requirement (Page No. 97 of 113) We understand that only those spare parts are to be supplied with DRS, which Bidder feels are necessary for trouble free operation of DRS during warranty period. And in such a case Prices are to be included in DRS supply prices	Bidders understanding is correct.
4	TPI charges (Page No. 98 of 113) It is mentioned in tender that Bidder should quote separately towards Third Party inspection charges. Kindly confirm that TPI will be appointed by MNGL & charges for TPI also will be borne by MNGL	TPI will be appointed by MNGL & charges for TPI also will be borne by MNGL
5	Meter Type (P&I diagram, Note 12) We understand that Bidder can quote for either RPD Meter/ Turbine Meter for both DRS type i.e. 5000 scmh & 15000 scmh. We would like to bring to your kind attention that if only RPD meter is accepted for 5000 scmh	Bidder can quote for either RPD Meter / Turbine Meter for both DRS type i.e. 5000 SCMh & 15000 SCMh.

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	<p>capacity DRS, only one vendor has G1000 RPD meter. Hence other bidders cannot get a competitive quote from them. Kindly confirm acceptance of Turbine meter/ RPD meter for 5000 scmh DRS.</p>	
6	<p>G rating of Meter for 5000 SCMH DRS</p> <p>Considering following 2 scenarios, Bidder can select G650 Meter: 1) Line Pressure: 4.3 Barg, Temperature: 28 Deg.C 2) Line Pressure: 4 Barg, Temperature: 12 Deg. C</p> <p>Considering above, kindly accept G650 rating meter for 5000 SCMH capacity DRS, which will reduce overall cost of DRS.</p>	Tender condition prevails.
7	<p>P&ID (Page No. 94 of 116 & 113 to 116)</p> <p>As per Page No. 94 We understand that SSV shall be integral with Monitor PCV is acceptable. Active Regulator is stand alone device. However in P&ID it is shown separate SSV. Please confirm SSV shall be integral with Monitor PCV is acceptable. Active Regulator is stand alone device. Please confirm our understanding is correct.</p>	<p>Confirmed.</p> <p>Monitor with inbuilt slam shut valve is acceptable. Active shall be stand alone type.</p>
8	<p>Regulator Design Type</p> <p>Please confirm that PRV model selected shall be such that inlet pressure shall not come under direct contact with PRV main diaphragm.</p>	<p>Confirmed.</p> <p>PRV model selected shall be such that inlet pressure shall not come under direct contact with PRV main diaphragm.</p>
9	<p>Requirement of Limit Switches</p> <p>Please confirm 2 Nos. (Open/Close position) of limit switches shall be supplied along with each SSV.</p>	<p>Confirmed.</p> <p>2 Nos. (open/close position) of limit switches shall be supplied along with each SSV for future installation of Data Logger.</p>
10	<p>Requirement of Flame Arrester</p> <p>Please confirm flame arrester is required at</p>	<p>Confirmed.</p> <p>Flame arrester is required at</p>

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	Common vent Header.	common vent header.
11	<p>95 of 116 Requirement of Davit Arm You are requested to accept the blind cover with davit arm for Filter Vessel upto 10" shell size. Above 10" QOC is required to supply. This is required for easy opening/closing of the filter during maintenance. As per Page no 116, upto 6, vessel shall be supplied with Davit Arm, however in past upto 10" MNGL had accepted Davit Arm. Please confirm acceptance of Davit arm upto 10" vessel size.</p>	Filters are acceptable with blind covers with davit arm.
12	<p>Requirement of PSV Filter Vessel is pressurized. As a good engineering practices, it is recommended to install a PSV over the Filter Vessel. You are requested to confirm whether supply PSV on the Filter Vessel is mandatory or not.</p>	<p>Confirmed. PSV over the Filter Vessel is required.</p>
13	<p>99 of 116 Pneumatic Leak test Pressure at 20 .5 bar as per Clause No. E (ii) We understand that pneumatic leak test shall be done by air at 7 bar pressure. In past MNGL did the pneumatic test at 7 bar air pressure. Please confirm our understanding is correct.</p>	Tender condition prevails
14	<p>107 of 116 Skid Cabinet Size as 2 X 2 meter We understand that skid cabinet size shall be 3.5 X 3 meter for 15000 SCMHS MRS and 3 X 2.5 meter for 5000 SCMHS MRS. To obtain such size meter straight length at inlet/outlet of meter shall keep as per Turbine Meter/OEM recommendation and not as per AGA-7 . To maintain the cabinet size of 3.5 X 3 meter, it is not possible to follow UL-DL straight length as per AGA-7 i.e. 17D distance which comes as 2.6 meter itself. All CGD companies goes with AGA-7 requirement for UL-DL distance, However to accommodate the 3.5 distance we need not to follow AGA 7</p>	<p>Tender condition prevails. Turbine Metering (UL & DL) shall be as per Meter Manufacturer's standard subject to fulfilment of Accuracy requirement as mentioned in Datasheet. For sizing, for 5000 SCMHS Aboveground DRS, 3 m (L) x 2.5 m (W) is acceptable & for 15000 SCMHS DRS, 3.5 m (L) x 3 m (W) is acceptable.</p>

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	requirement. Kindly confirm your acceptable for the same.	
15	<p>99 of 116 Pressure & Temperature Parameter as per clause M We understand that for 5000 & 15000 DRS, minimum Pressure at inlet : 14 bar-g Temp at inlet & outlet in deg. C: 28 and Pressure at outlet: 4 bar-g Limiting velocity at inlet of skid in m/s :20 Limiting velocity at downstream of filter in m/s : 40 m/s. Skid shall be design accordingly. Please confirm our understanding is correct.</p>	Bidders understanding is correct.
16	<p>93 of 116 & 99 of 116 Clause No. 20: The outlet pressure of DRS shall be 4 kg/cm2. Meter sizing calculations shall be done accordingly. However Regulator Outlet presusre Range is 2 to 4 bar. We understand that skid outlet line size & meter shall be designed for 4 Barg pressure. However regulator spring range shall be suitable to cater 2-4 Barg pressure. Please confirm our understanding is correct.</p>	Bidders understanding is correct.
17	<p>102 of 116 Design of Small Valve below 2" as per clause no. 5.8 As per this clause small valves below 2" shall be Socket welded only. We understand that threaded valves are not acceptable. Please confirm.</p>	Bidders understanding is correct.
18	<p>113 of 116 Requirement of Manifold/Bleed Valve: P&ID We understand that if we have to supply 2 way manifold then there is no separate requireemnt of 2 Nos bleed valves as shown in P&ID. This 2 way manifold is having inbuilt 2 valves which shall be used for venting/bleeding purpose. Please confirm our understanding is correct and only manifold need to supply for PG.</p>	Bidders understanding is correct.
19	99 of 116	Bidders understanding is

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	<p>Shut of Pressuer Set Point: +-20% We understand that Slam shut of Valve shall have OPSO & UPSO setting to achieve the set point +-20%. Please confirm our understanding is correct.</p>	correct.
20	<p>Minimum Flow Rate You are requested to provide the minimum flow rate for both the DRS. If we shall use TM, then for 5000 SCM_H selected TM will measure minimum flow of 400 SCM_H and for 15000 SCM_H selected TM will ensure minimum flow of 1000 SCM_H. You are requested to confirm whether does these minimum flow rates will be acceptable at initial level. If MNGL draws lower flow rate, there will be a discrepancy in the reading. All CGD companies including IGL prefer RPD meter over turbine meter.</p>	<p>Flow rate in SCM_H : 5000 & 15000 Pressure at inlet : 14 bar-g Temp at inlet & outlet in deg. C: 28 Pressure at outlet: 4 bar-g Limiting velocity at inlet of skid in m/s :20 Limiting velocity at downstream of filter in m/s : 40</p>
21	<p>113 of 116 P&ID: Meter shall be Turbine /RPD Type Turbine meter is having 1:20 rangability and RPD meter is having 1:200 rangability. By considering both the options and being competitive bidding, every bidder shall proceed with only Turbine meter for both the DRS by considering the competitive option. Turbine meter will not measure initial lower flow rate by considering its 1:20 rangability. You are requested to provide the minimum flow Rate for both the DRS.</p>	<p>Flow rate in SCM_H : 5000 & 15000 Pressure at inlet : 14 bar-g Temp at inlet & outlet in deg. C: 28 Pressure at outlet: 4 bar-g Limiting velocity at inlet of skid in m/s :20 Limiting velocity at downstream of filter in m/s : 40</p>
22	<p>Certification for EVC Please confirm that the EVC certified by ATEX/CSA/equivalent international certification shall be accepted.</p>	<p>Confirmed. EVC certified by ATEX / CSA / equivalent international certification shall be accepted.</p>
23	<p>115 of 116 Design, detail engineering, manufacturing, assembly, calibration of instruments, factory testing / inspection, supply of skid mounted DRS including packaging, insurance, handling, transportation, loading / unloading at MNGL Stores / sites, Erection including transportation of DRS / CNG Decompression Skid from MNGL's</p>	<p>Scope of supply includes unloading at MNGL Stores / sites as well as re-transportation of DRS from MNGL Stores to any site in Pune, Pimpri – Chinchwad and adjoining areas of Chakan, Talegaon & Hinjewadi as per the</p>

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	<p>store to designated site, Hookup with existing pipeline, performance testing, all related services for Commissioning as per MR specifications and Special Instructions of MNGL.</p> <p>We understand that we need to unload the skid only once either at MNGL store or Site. If skid is unloaded at MNGL store, then MNGL has to arrange further transportation loading & unloading upto site. Please confirm our understanding is correct.</p>	requirement.
24	<p>3.1 Certification requirement Please confirm skid shall be inspected as per 3.1 certification. Only witness to Hydro inspection & final stage inspection is required. MNGL shall arrange the TPI for witness Please confirm our understanding is correct.</p>	<p>Bidder's understanding is correct. Skid shall be inspected as per 3.1 certification. Only witness to Hydro inspection & final stage inspection is required.</p>
25	<p>107 of 116 Requirement of AMR system The AMR specification mentioned in the tender is not clear. PI confirm the parameters to be transmitted only from outlet and need EVC data. Also, when we select data call type AMR, the data will be stored in the EVC and not in AMR. PI confirm. Also accept Solar Panel mounted with power supply option powering to modem with battery backup option.</p>	<p>Tender condition prevails. However, bidder shall supply the skid with Standard AMR with data logger / Standard AMR system with provision for installing Data logger in future shall be kept at various critical locations like. Inlet & outlet of filter, slam shut off valves etc.</p>
26	<p>107 of 116 Requirement of AMR system We recommend you to use the AMR system by using the Datalogger. Since it is competitive bidding, by considering the future trend MNGL has to take decision to proceed with conventional type of AMR or AMR with Datalogger. Please note conventional SCADA by using GSM modem is old dial up system and is not working properly with many companies. Now a days IGL/MGL is not adopting such SCADA system removing old dial up system and converted it into advanced AMR system such as Datalogger. MNGL also has used it in one of the Underground DRS system and current MRS tender of 1500</p>	<p>Tender condition prevails. However, bidder shall supply the skid with Standard AMR with datalogger / Standard AMR system with provision for installing Data logger in future shall be kept at various critical locations like. Inlet & outlet of filter, slam shut off valves etc.</p>

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	<p>SCMH capacity. Datalogger will take 5 Digital & 3 Analogue input signal from skid and will connect to SCADA thr' OPC base software to host computer. Combination of 3 Analogue i/p shall be (Inlet Pressure/Outlet Pressure/Temp thr' RTD). Combination of 5 Digital i/p shall be (2 DP switch across 2 filters/Limit Switch for Open & Close indication across 2 SSV/Corrected Pulse Output of EVC /Uncorrected Pulse Output of EVC). It has also local display of all parameters as well data transmitted on GSM / GPRS to server.</p> <p>Now such Dataloggers are available with 3-4 vendors.</p> <p>You are requested to confirm on AMR requirement whether to use dial up GSM or through Datalogger.</p>	
27	<p>107 of 116 This page specify the skid dimension of 2 M X 2 M . Scope of supply : DRS should mentioned 3M X 2.5M size for 5000 SCMh</p> <p>Pl. note that with the Turbine meter the straight length requirement is 17D AGA-7 requirement. The length for 6 inch will be 2.6 Mter straight length. With meter spools and canopy is will not be possible for less than 3.5 meters. Pl. confirm if we follow AGA-7 standarad for Turbine meters or we follow short spool length as per manufacturer recommendation. All CGD companies strictly follow AGA-7 practice only. Please confirm what we should consider.</p>	<p>Tender condition prevails.</p> <p>Turbine Metering (UL & DL) shall be as per Meter Manufacturer's standard subject to fulfilment of Accuracy requirement as mentioned in Datasheet.</p> <p>For sizing, for 5000 SCMh Aboveground DRS, 3 m (L) x 2.5 m (W) is acceptable & for 15000 SCMh DRS, 3.5 m (L) x 3 m (W) is acceptable.</p>
28	<p>104 and 105 of 116 RPD meter Data sheet and Turbine Meter Data sheet rangeability The RPD meter data sheet specify 1: 200 turndown whereas Turbine meter Data sheet specify 1: 20 Turndown. We request you to specify the minimum flow measurement required for both type of DRS to select the proper meter. The RPD / Turbine meter has lot of price as well as performance variation. The Turbine measure Qmin : 400 SCMh as per 1: 20 Rangiability. Pl.</p>	<p>It should meet following requirement: Flow rate in SCMh : 5000 & 15000 Pressure at inlet : 14 bar-g Temp at inlet & outlet in deg. C: 28 Pressure at outlet: 4 bar-g Limiting velocity at inlet of skid in m/s :20 Limiting velocity at downstream of filter in m/s : 40</p>

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	confirm if it meets your requirement.	
29	<p>93/116 Any flange made of ductile iron / cast iron or non-ferrous material is not acceptable.</p> <p>Please confirm any component like meters can be used for Ductile Iron material.</p>	Meter with ductile iron material is acceptable subject to meeting the EN standard.
30	<p>105 /116 RPD Meter Data sheet : LF and HF pulse generator As we use EVC, HF pulse generator is optional. Pl. confirm</p>	Confirmed
31	<p>98/115 Spare parts list with the price Please confirm the list of the spares with the price will be a part of technical bid and not for bid comparison and evaluation.</p>	Confirmed
32	<p>100/115 Slam shut valve Device set pressure + / - 20% Pl. confirm this set pressure OPSO for the SSV is with compares to the monitor Set pressures.</p>	Confirmed
33	<p>Turbine meter / RPD meter The rangeability of TM is 1:20 while of RPD asked for 1:200. Turbine meter will not measure the DRS starting flow rates.</p>	<p>It should meet following requirement: Flow rate in SCM³/H : 5000 & 15000 Pressure at inlet : 14 bar-g Temp at inlet & outlet in deg. C: 28 Pressure at outlet: 4 bar-g Limiting velocity at inlet of skid in m/s :20 Limiting velocity at downstream of filter in m/s : 40</p>
34	<p>15000 SCM³/H skid Please accept the two RPD meter in parallel to meet the total capacity of the skid. Up to 8000 SCM³/H capacity one meter will be used and for more two meters will meet the criteria.</p>	Acceptable subject to meeting all the tender terms and specifications.
35	<p>TS NO. : MNGL/TS/DRS/00 and P&ID 113 of 116 Meter type : RPD / Turbine with EVC</p>	Bidder's understanding is correct.

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	<p>We understand that the selection of type of meter to be provided for both 5000 SCMH & 15000 SCMH skid is the bidder's responsibility and bidder can choose any of the type of meter. MNGL requested to confirm that our understanding is correct.</p>	
36	<p>TS NO. : MNGL/TS/DRS/00 and P&ID 113 of 116 Meter type : RPD / Turbine with EVC If, the answer to above the query is YES than MNGL requested to clarify that how the evaluation of bids of different bidders with RPD / Turbine meters would be done? There is a huge difference in pricing of both meters for the higher line sizes envisaged for this tender. Further, both meters have different technology involved, Turbine meters have higher accuracy, better repeatability etc. MNGL requested to confirm that only the Turbine meters are envisaged for this tender and RPD meter is not required.</p>	<p>Evaluation shall be done as per the tender terms as per Cl. No. 4.0 of BEC (Page No. 8 of 113)</p>
37	<p>TS NO. : MNGL/TS/DRS/00 and P&ID 113 of 116 Meter type : RPD / Turbine with EVC If, the answer to the above query is that for 5000 SCMH skid RPD type meter is required. Please note that during sizing calculation of RPD meter considering 4 barg outlet pressure, the size of meter is coming as 6" G 1000 Meter. By referring Vendor list provided with tender, there is a restriction for the selection of vendor for G1000 meter. Only specific vendor can provide G 1000 meter and also the representative of meter would be one of the participant of tender. Which is creating monopoly situation. MNGL requested to either accept turbine meter for 5000 SCMH or free issue the RPD type G 1000 meter to successful bidder. This will eliminate monopoly and invite healthy competition, which is favourable to MNGL to have more bids and competitive as well. Please confirm acceptance.</p>	<p>Bidder can quote for either RPD Meter / Turbine Meter for both DRS type i.e. 5000 SCMH & 15000 SCMH.</p>
38	<p>TS NO. : MNGL/TS/DRS/00 and P&ID 113 of 116</p>	<p>Bidder's understanding is correct.</p>

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	<p>Configuration of regulators shown as SSV+Monitor Reg+Active Reg</p> <p>We understand that the Monitor Regulator with inbuilt SSV is acceptable for both 5000 & 15000 SCMH skids with reference to the clause mentioned on page no. 94 of 116. MNGL requested to confirm that our understanding is correct.</p>	
39	<p>MATERIAL REQUISITION 90 of 116 15000 SCMH DRS: Design should be compact type such that the size of the DRS should not exceed 3.5 Mtr in length X 3Mtr in Width. MNGL requested to modify / remove the size restriction for skid. The final approval of GA drawing shall be done by MNGL. The finalization of skid size shall be dealt during detailed engineering. Please confirm the acceptance.</p>	Tender condition prevails.
40	<p>MATERIAL REQUISITION 90 of 116 5000 SCMH DRS: Design should be compact type such that the size of the DRS should not exceed 3 Mtr in length X 2.5 Mtr in Width. MNGL requested to modify / remove the size restriction for skid. The final approval of GA drawing shall be done by MNGL. The finalization of skid size shall be dealt during detailed engineering. Please confirm the acceptance.</p>	Tender condition prevails.
41	<p>General Specifications 92 of 116 Gas velocities in pipe work must not exceed 20 metres / second up to the inlet of the filter and 40 metres / second downstream of filter, when the maximum flow rate occurs at the lowest expected inlet pressure By referring this clause, we understand that pipe sizing to be done at min pressure, max outlet and velocity to be considered 20 m/s upto inlet of filter and after filter outlet, to be considered 40 m/s.</p>	<p>It should meet following requirement: Flow rate in SCMH : 5000 & 15000 Pressure at inlet : 14 bar-g Temp at inlet & outlet in deg. C: 28 Pressure at outlet: 4 bar-g Limiting velocity at inlet of skid in m/s :20 Limiting velocity at downstream</p>

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	Please confirm that our understanding is correct.	of filter in m/s : 40
42	<p>General Specifications 92 of 116</p> <p>The DRS should have provision for stream selection wherever specified / mentioned in specific requirements (see Clause M). We don't find the mentioned "Clause M" in this tender. We understand that stream selection is envisaged for this tender, as the regulators are pilot operated and automatic switchover shall be done if one stream fails. Please confirm that our understanding is correct.</p>	Bidder's understanding is correct.
43	<p>General Specifications 92 of 116</p> <p>The DRS should have provision for stream selection wherever specified / mentioned in specific requirements (see Clause M). If the answer to the above query is "Tender conditions prevails". MNGL requested to provide detailed specifications of stream selection arrangement for the DRS.</p>	Please refer reply to Sl. No. 42 above.
44	<p>C. Filter Specifications 95 of 116</p> <p>For 150# pressure class and 6" shell size, bolted cover with Davit arm is acceptable. We understand that for 6" and above sizes QOEC to be provided, we refer to GAIL/Mecon/EIL's specifications for filter, only 12" and above size filters need to be provided with QOEC. MNGL requested to confirm the acceptance of QOEC for filter required for 12" and above sizes only.</p>	Filters are acceptable with blind covers with davit arm.
45	<p>General Specifications 96 of 116</p> <p>E. Cabinet: Canopy shall be provided with minimum 1.6 mm thickness. We understand that canopy of MS sheet to be provided of 1.6 mm thickness for the skids. MNGL requested to confirm that our understanding is correct.</p>	Bidder's understanding is correct.
46	General Specifications	Tender condition prevails.

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	<p>97 of 116 G. Spare Parts: The spare parts required in the warranty period (24 months from the date of delivery or 12 months from the date of commissioning, whichever is earlier) should be supplied free of cost.</p> <p>By referring this clause, we understand that "List of spare parts:" mentioned on page no 97 of 116 to be considered as spares to be provided during warranty period. MNG requested to confirm that our understanding is correct.</p>	<p>All the spare parts required in the warranty period (24 months from the date of delivery or 12 months from the date of commissioning, whichever is earlier) should be supplied free of cost.</p>
47	<p>General Specifications 97 of 116 List of spare parts: The required quantity / set is not mentioned for spares MNG requested to confirm the quantity to be provided.</p>	<p>All the spare parts required in the warranty period (24 months from the date of delivery or 12 months from the date of commissioning, whichever is earlier) should be supplied free of cost as per the requirement.</p>
48	<p>General Specifications 107 of 116 O) AMR System As the very detailed specifications for AMR system is not provided with tender. We understand that AMR software shall be common for all skids. Only, the modems and its power system needs to be provided for each skid. MNG requested to confirm that our understanding is correct.</p>	<p>Tender condition prevails. Bidder shall supply the skid with Standard AMR with data logger / Standard AMR system with provision for installing Data logger in future shall be kept at various critical locations like. Inlet & outlet of filter, slam shut off valves etc.</p>
49	<p>General Specifications 107 of 116 O) AMR System We understand that AC / DC power shall be provided by MNG for Modem of AMR system. MNG requested to confirm that our understanding is correct.</p>	<p>Bidder's understanding is correct.</p>
50	<p>General Specifications 107 of 116 O) AMR System We understand that any kind of special data loggers are not envisaged for this tender. EVC</p>	<p>Bidder's understanding is correct.</p>

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	<p>data can be transferred through GSM modems to AMR software. MNGL requested to confirm that our understanding is correct.</p>	
51	<p>General Specifications 107 of 116 O) AMR System If the answer to the all above queries related to AMR system is "Tender conditions prevails" than we request MNGL to provide detailed specifications for AMR system.</p>	<p>Tender condition prevails. The datasheets of each & every equipment in AMR system shall be provided by bidder at the time of bidding for MNGL approval.</p>
52	<p>The datasheet of EVC is not envisaged in this tender. MNGL requested to provide the same.</p>	<p>The EVC shall comply EN 12405 & ATEX. Bidder shall submit Detailed Datasheet of EVC along with the bid for MNGL approval.</p>
53	<p>Vendor list for approved vendor for AMR system is not provided with the tender. MNGL requested to provide the same.</p>	<p>The datasheets of each & every equipment in AMR system shall be provided by bidder at the time of bidding for MNGL approval as per the tender terms and specification.</p>
54	<p>Please add M/s Petro Valves in vendor list for supply of Ball valve, Check valve and Globe valves. They have supplied valves directly to GAIL India Ltd., GAIL Gas Limited, Gujarat Gas Limited and other PSUs and they have been in approved vendor lists of above mentioned PSUs.</p>	<p>M/s. Petro Valves Pvt. Ltd., Ahmedabad is approved for Ball valve, Check valve and Globe valves</p>
55	<p>Please add M/s Comfit & M/s Aura for supply of Fittings and SS manifolds in vendor list. They are already in approved vendor list of GAIL India Ltd & Mecon Limited.</p>	<p>Please refer Note to List of Bought Out items (Page No. 112 of 113)</p>
56	<p>If the answer to the above query is "Tender conditions prevails" than MNGL requested to confirm that only approved vendors are acceptable for SS tube fittings & SS manifolds.</p>	<p>Please refer Note to List of Bought Out items (Page No. 112 of 113)</p>
57	<p>QAPs are not provided with tender. We understand that bidder has to follow manufacturer's std. QAP. Please confirm</p>	<p>Bidder to submit QAP for approval of MNGL as per the tender specification.</p>

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	acceptance.	
58	We understand that 3.1 certificate to be provided for complete skid. Please confirm	Bidder's understanding is correct. Skid shall be inspected as per 3.1 certification.
59	In technical specification sheet no. MNG/TSDRS/00 page no 93/113 , point no. 18 & 19. It is mentioned that, underground DRS is required. In this connection, Please confirm the specifications given for underground DRS or above ground DRS.	Aboveground DRS is required.
60	Standard Features Page No. 94 of 116 Vents shall be provided to discharge gas from relief valve to safe place at least 3 metres away from the working platform in DRS vicinity and it should be terminated with suitable flame arrestors. As per the said clause flame arrestors are required. However in the Tender P&ID it is not mentioned. Kindly confirm the requirement.	Flame arrester needs to be provided at the vent.
61	M. Specific Requirements Page No. 99 of 116 Outlet Pressure : 2 to 4 bar As per the SOR item Outlet pressure is 4 Bar however as per this clause Outlet Pressure is 2 to 4 Bar. Kindly confirm the Outlet Pressure to be consider to design the Piping & all rest instruments downstream of the Active regulator for 5000 SCMH & 15000 SCMH skids.	The outlet pressure of DRS shall be 4 kg/cm ² -g. Meter & outlet sizing calculations shall be done accordingly.
62	Datasheet Regulator (Monitor) Page No. 101 of 131 STANDARD : EN 14382: 2009 We believe we need to follow EN 334 for Monitor regulator instead EN14382; pl confirm.	Confirmed, Regulator shall be as per EN334 std.
63	Kindly provide SSV Datasheet.	Bidder shall submit the same.
64	Can we use common vent header for all the vents with single flame arrester?	Yes. Acceptable
65	Can we consider Sockolet for branch connections.	No. Tender condition prevails

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66	Kindly provide painting specifications	Please refer Cl. D of Technical Specification (Page No. 95 & 96 of 113)
67	For Pressure Gauge Point, can we use 3 way, 2 valve manifold instead of isolation valve and bleed valve combination, as bleeding manifold meets the requirement of isolation of Pressure Gauge as well as bleeding.	Yes. Acceptable

Please submit the signed & stamped copy of Replies to Queries of the Bidders along with tender document with your techno-commercial offer as a token of acceptance.

All the others terms and conditions of the bid documents are unchanged.

With regards.

Ganesh Said
Sr. Manager (C&P)