



Energising Quality

REPLY TO BIDDER'S PRE-BID QUERIES DATED 26.02.2021

PROCUREMENT OF FLOW METERS

Tender No : AGCL/GMB/PMC-GHT/FLOW METER/2021/15 Dated: 01.02.2021



| Sr. No. | Tender Clause / Annexures | Page No | Clause No | Subject | Bidders Comments / Queries | VCS Reply |
|---------------------------|--|---|---|---|--|---|
| COMMERCIAL QUERIES | | | | | | |
| 1 | Schedule of Rates (SOR) | - | SOR | Supervision Manday rate | As per Price SOR, separate manday rate for supervision of installation & commissioning is not mentioned. We request to please mentioned separate line item for supervision of installation and commissioning activity with no. of mandays required. | Tender conditions shall prevail. However, bidder to consider the rates for the commissioning and supervision of installation in supply only. |
| 2 | General | - | - | Evaluation of Bid | Price SOR is having two line item. Kindly confirm whether evaluation will be line item wise and bidder can quote any item or evaluation will be on total price and bidder to quote both item. | Bids will be evaluated Overall basis to arrive at the lowest evaluated cost to Purchaser. Refer Clause 32.4.2 of ITB of Commercial Volume I of II. |
| 3 | Completion Period | 6 of 158 | Clause No. 4.1 of IFB of Commercial Volume I of II | 4 Months on FOT basis | You are requested to note that the Ultraosnic Meters are manufactured in US/ Europe locations and the same needs to be wet calibrated along with the Meter runs and Profiler at a third party lab and hence the minimum delivery peiod works out to be 7 months. Request your acceptance of 7 months delivery on FOT basis | Tender Conditions shall prevail. |
| 4 | Details of Bid Documents | 7 of 158 | Clause No. 7.6 of IFB of Commercial Volume I of II | Extension of Bid Due Date | As all vendors and sub vendors are stil working with limited resources and replies from them is delayed, hence request extension of delivery period of at least three week from the scheduled bid due date | Tender Conditions shall prevail. |
| 5 | 26 Price Reduction Schedule For Delayed Delivery Clause No.: 26.1.1 | 53 of 158 | Clause No. 26.1.1 of GCC of Commercial Volume I of II | Deductions shall apply as per following formula: 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. | As per our understanding PRS shall be applicable only on undelivered portion, please confirm. | Bidder's understanding is correct. Refer Clause 3.1 of SCC of Commercial Volume I of II. |
| 6 | Guarantee | 51 of 158 | Clause No. 20.1 of GCC of Commercial Volume I of II | in the Contract If any trouble or defect, originating with the design, material, workmanship or operating characteristics of any materials, arises at any time prior to twelve(12) months from the date of the first commercial operation of the Plant for which the materials supplied under the Contract form a part thereof, or twenty four (24) months from the date of last shipment whichever period shall first expire, and the SELLER is notified thereof, SELLER shall, at his own expense and as promptly as possible, make such alterations, repairs and replacements as may necessary to permit the materials to function in accordance with the specifications and to fulfil the foregoing guarantees. | Generally item warranty as per Assam Gas terms is 18 months from the date of last shipment or 12 months from the date of commissioning. Request you to kindly accept the same. | Tender Conditions shall prevail. |
| 7 | Details of Bid Documents | 7 of 158 | Clause No. 7.6 of IFB of Commercial Volume I of II | Last date and time for submission of bid : Up to Upto 1430 hrs. (IST) on 24.02.2021 | Looking into the extensiveness of the said tender, may we request Assam Gas to kindly extend the bid submission date by atleast 2 to 3 weeks from the date of reply to Pre-Bid queries. | Tender Conditions shall prevail. |
| 8 | EMD/ Bid Security | 10 of 158 | Clause No. 10.2.7 of IFB of Commercial Volume I of II | Bidders which are registered as Micro / Small Companies / Industries under MSME act 2006 or registered as N.S.I.C shall be exempted from submission of EMD. Such bidders must furnish valid document i.e. valid on the date of bid submission date along with bid to avail the exemption. | Please find attached MSME certificate. Please reiew the same and do let us know if we are eligible to exempt from submission of EMD/bid security. | Bidder to submit the bid as per clause 10.1.5 & 10.2.7 of IFB of Commercial Volume I of II. |
| 9 | Completion Period | 6 of 158 | Clause No. 4.1 of IFB of Commercial Volume I of II | 4 Months on FOT basis | We require completion/delievery period of 6-7 months from the date of FOA/LOI . | Tender Conditions shall prevail. |
| TECHNICAL QUERIES | | | | | | |
| 1 | Technical | 12 of 139 & 18 of 139 | - | Process Connection | On tender P&ID process connection shows 1.5" 600# and as per Attachment II it is 1/2" 600#. Please Confirm | Vendor to take 1.5" 600# as process connection for the same. |
| 2 | Technical | 12 of 139 & 14 of 139 Page 58 of 139 | Notes | Straight meter run of 10 ND(Nominal pipe diameter) between upstream of the flow conditioner, 10 ND between flow conditioner and the meter and 5D downstream of meter shall be supplied by the meter manufacturer and used during wet calibration. UPSTREAM PIPE SPOOL SHALL BE MINIMUM 150 Straight Run. | As per Note No. 9 in USM Datasheet : Straight meter run of 10 ND(Nominal pipe diameter) between upstream of the flow conditioner, 10 ND between flow conditioner and the meter and 5D downstream of meter shall be supplied by the meter manufacturer and used during wet calibration As per Tender P&ID, Down stream spool shown 10D Please Confirm the requirement | For bi-directional donwstream spool & arrangement should be same as upstream spool & arrangement i.e 10 ND(Nominal pipe diameter). Bidder to quote accordingly. |
| 3 | Technical | - | - | PMS | Please provide Piping Material Specifiction (PMS) | Bidder to refer Annexure-B for more details. |
| 4 | Technical | - | - | Standard Specification for Pipe, Flange and Fittings | Please provide Standard Specification for Pipe, Flange and Fittings | The details shall be provided to the successful bidder. |
| 5 | Technical | - | - | GAS Composition | please provide Gas composition | Gas composition shall be provided to successful bidder. |
| 6 | Technical | - | - | USM Datasheet | Please Provide USM datasheet for 6" 300# | Bidder to refer page no.: 14 and 15 of 139 for the same. |
| 7 | Technical | - | - | QAP for Pipe, Flange and Fittings | Please Provide QAP for Pipe, Flange and Fittings. | QAP for Pipe, Flange and Fittings shall be submitted by succesful bidder for review and approval. |
| 8 | Technical | - | - | Legend Sheet | Please Provide Legend Sheet | The details shall be provided to the successful bidder. |
| 9 | Technical | - | - | USM Datasheet IP 67 | Please confirm the acceptance of IP 66 for USM meter | Tender Conditions shall prevail. |



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|---------|-----------------------------|-----------|-----------|--|---|---|
| 10 | Technical | | | USM Data sheet Bi Directional | We understand that USM meter to be calibrated only for Forward direction, Please confirm | Bidder's understanding is not correct. USM meter should be calibrated for both directions. Bidder to quote accordingly. |
| 11 | Technical | | | USM Data sheet-Note 9 | We understand that Flow Conditioner to be provided only at one side for Forward Flow measurement and Meter need to be calibrated only for Forward direction only, Please confirm. | Bidder's understanding is not correct. For bi-directional downstream arrangement should be same as upstream arrangement i.e 10 ND(Nominal pipe diameter). This states that bidder needs to provide flow conditioner in both directions. And, USM meter should be calibrated for both directions. Bidder to quote accordingly. |
| 12 | Technical | | | QAP :- TPI and Client Witness for USM Calibration and Hydrotest | It may be noted that, Hyrdo test witness by TPI/ Client at Factory will delay Manufacturing Process, hence we request VCS to reconfirm the same. | Hydrotest should be witness by TPIA. Bidder to quote accordingly. |
| 13 | | | | USM Specification Turndown Ratio 1 :100 | The same is dependent upon Meter ID based on the Upstream Pipespool and same shall be defined after USM Calibration. In generally USM meter Turn down Ration are near to 1:100. Further As per data sheet Meter need to operated below 20m/s second. | The turn down ratio should be 1:100 or better. However, bidder to consider the operating velocity of fluid for continuous operation as 10-12 m/s and size the meter accordingly. |
| 14 | Technical | | | QAP :- 3.2 Certification | We understand that, as a standard practice all instrument items like, USM / Transmitter are to be supplied with 3.1 certification, Please confirm | Bidder's understanding is correct. However, all the pressure containing items should be inspected and tested as per 3.2 certification. |
| 15 | Volume II of II : Technical | 15 of 139 | | Service condition (Attachment -1) | Kindly confirm whether we need to providing USM size as per the line size mentioned or we need to size the USM by considering velocity limitation of 20 m/sec as per note-3 mentioned in datasheet of Ultrasonic flow meter If we have to size the USM by considering 20m/sec then tag no. of 1009-00-FT-1004 (Rupkhelia) will be having lower size then pipeline size (8") and we understand that same will be acceptable. Reques to please final the size of Gas ultrasonic flow meter. | Velocity as 20m/s shall be the maximum allowable velocity. However, bidder to consider the operating velocity of fluid for continuous operation as 10-12 m/s and size the meter accordingly. However, bidder should submit the sizing calculation after award in order to review and approval of document. |
| 16 | Volume II of II : Technical | 12 of 139 | | Typical Schematic for USM | As per the schematic configuration is Uni directional (10D+Flow profiler + 10D + METER + 5D), however datasheet point no. 12 mentioned Bi directional. We understand that Meter is inherently Bi directional, however actual flow will be uni directional only and we have to supply meter with meter run as per the typical schmatic. If Bi directional flow is required than both upstream and downstream meter has to be 20D with flow profiler and meter has to be calibrated in Bi directional. Kindly confirm your requirement | For bi-directional downstream spool & arrangement should be same as upstream spool & arrangement i.e 10 ND(Nominal pipe diameter). Bidder to quote accordingly. |
| 17 | Volume II of II : Technical | 7 of 139 | | Vendor to facilitate one number of International visits of 4 Nos. client/PMC/Consultant personnel for FAT or Training sessions or to visit Manufacturer parent company of the meter for a week. Bidder to quote considering the above. | FAT and training session will be done in India only, hence we could not facilitate for International visit. If any visit for parent compnay required then Client / PMC/ Consultant have to visit by their own expense and all types of expensed need to born by Clie/PMC/ Consultat and not by bidder. We will help and facilitate with invitation letter if required. | Any parts required here are from outside the India, then bidder should arrange an international visit for training sessions. However bidder to facilitate the international visit as per the tender for training sessions, OEM part companies, etc., which shall be included in bidder price. |
| 18 | Volume II of II : Technical | 9 of 139 | | 4.1 Notes to Vendor The delivery location of all the items shall be in AGCL Duliajan, Assam and deliver schedule shall be 4 (Four) months from the date of FOI. | Please accept delivery period of min 7 months as USM & FC both are imported items & wet calibration associated with USM. | Tender Conditions shall prevail. |
| 19 | Volume II of II : Technical | 16 of 139 | | Bidder to supply prewired metering panel along with flow computer. | We understand that bidder need to supply flow computer alognwith panel. Kindly confirm if is there any specific size of panel required. | Bidder's understanding is correct. However, the panel shall be control room mounted and the size of the panel shall be 800X800X2100. Bidder shall refer the Annexure-A attached for specifications of panel. |
| 20 | Volume II of II : Technical | 6 of 139 | | 4.0 SCOPE OF SUPPLY Procurement of Instrument cables from instrument to JB & from JB to flow computer along with erection, hardwired, JB, Cable Glands as required. | We understand that cable from field to CR is in bidders scope. Please provide the distance between the same. | Bidder's understanding is correct. Bidder to consider the distance between field and control room as 100 metrs as aprox. |
| 21 | Volume II of II : Technical | 12 of 139 | | Typical Schematic for USM 30HC piping class | PMS is not given in enquiry. We understand that schedule 40 piping for 6" and 8" is required. Please confirm | Bidder to refer Annexure-B for more details and select schedule mentioned in PMS. |
| 22 | Volume II of II : Technical | 14 of 139 | | USM Datasheet Point 20 & 23 Enclosure: Weather proof IP67 as per IEC 60529 / IS 2147 | Please accept enclosure rating as IP 66 and the same is acceptable to many PSUs i.e. GAIL, EIL, MECON, IOCL, HPCL,BPCL etc. Valid PESO certificate will be provided for the same. | Tender Conditions shall prevail. |



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| 23 | Volume II of II : Technical | 14 of 139 | | USM Datasheet Note 8 During wet calibration.(7 point calibration before adjustment, 2 point verification after adjustment in USM electronics) | We understand that USM wet calibration at any international lab including GAIL, Hazira is acceptable. | Bidder's understanding is correct. |
| 24 | Volume II of II : Technical | 14 of 139 | | USM Accuracy class as per OIML (International legal metrology) | We understand that for offered Gas Ultrasonic Model meets all requirement of accuracy class 0.5 as per OIML R 137 (2012) and along with bid, bidder needs to submit latest OIML certificate as per new OIML CS guidelines applicable. This is required in all major company i.e. GAIL, ONGC, GSPL, EIL, Reliance etc. | Tender Conditions shall prevail. |
| 25 | Volume II of II : Technical | 17 of 139 | | Accuracy of Temperature Transmitter | Normally accuracy of Temperature Transmitter should be $\pm 0.12\%$. Please confirm | Accepted. |
| 26 | Volume II of II : Technical | 46 of 139 | | 5.5 Calibration / Configuration It shall be possible to perform on-line and remote set point configuration / calibration of the transmitter via a hand held communicator (HHC) The HHC shall be of easy to use and shall be suitable for use in the area classification specified in this Specification. The analog output of the transmitter shall not be affected during communication with the HHC. At least one number of hand held configurator shall be supplied as a minimum | Please confirm requirement of HHC along with Qty. | One no. of HHC shall be required with each meters. |
| 27 | Volume II of II : Technical | - | | NACE Requirement | We understand that NACE compliant material is not required in this project. | Bidder's understanding is correct. |
| 28 | Volume II of II : Technical | - | | Material Certification | We understand that 3.1 certification is applicable for all item i.e. USM, Transmitter, Piping material. Please confirm. | Bidder's understanding is not correct. However, all the pressure containing items should be inspected and tested as per 3.2 certification and rest instruments shall be inspected as per 3.1 certification. |
| 29 | PRICE SOR | - | | Supervision Manday rate | As per Price SOR, separate manday rate for supervision of installation & commissioning is not mentioned. We request to please mentioned separate line item for supervision of installation and commissioning activity with no. of mandays required. | Tender conditions shall prevail. However, bidder to consider the rates for the commissioning and supervision of installation in supply only. |
| 30 | PRICE SOR | - | | Evaluation of Bid | Price SOR is having two line item. Kindly confirm whether evaluation will be line item wise and bidder can quote any item or evaluation will be on total price and bidder to quote both item. | Bidder has to quote for both the item, as itemwise evaluation will not be accepted. Bidder to quote accordingly. |
| 31 | Volume II of II : Technical | Page 6 of 139 | 1.0 MATERIAL REQUISITION | Bidder shall perform field calibration / testing, pre-commissioning & commissioning; | our understanding is Calibration of the USM at GAIL Hazira calibration is acceptable. Please confirm. | Bidder's understanding is correct. |
| 32 | Volume II of II : Technical | Page 6 of 139 | 1.0 MATERIAL REQUISITION | Transportation, Transit Insurance, loading and unloading of material at AGCL site/stores | Our understanding is the unloading of the material at AGCL site/stores is under clients scope. Please confirm. | Unloading of material is under bidders scope. |
| 33 | Volume II of II : Technical | Page 6 of 139 | 1.0 MATERIAL REQUISITION | Splitting if the Tender as per the line item. | our understanding is the evaluation of the tender will be line item wise. Means the commercial SOR line item no 1.2 & 1.3 will be evaluated independently and can go to different bidders. Please confirm | Bidder understanding is not correct. Evaluation procedure shall be as per tender BEC. Please refer tender volume I of II, clause no. 9. |
| 34 | Volume II of II : Technical | Page 6 of 139 | 1.0 MATERIAL REQUISITION | Procurement of Instrument cables from instrument to JB & from JB to flow computer along with erection, hardwired, JB, Cable Glands as required. | Please provide the distance between control room & meter installation. | Bidder shall consider approx. 100 meters of distance from meter installation to control room. |
| 35 | Volume II of II : Technical | Page 6 of 139 | 1.0 MATERIAL REQUISITION | Procurement of Instrument cables from instrument to JB & from JB to flow computer along with erection, hardwired, JB, Cable Glands as required. | Our understanding is we have to supply the required material. Cable laying, Erection of skid, all the other site works are under AGCL scope. Bidder's scope is limited to supervision of insallation and commissioning activities. Plese confirm | Bidder understanding is not correct. Site works like erection and installation, cable laying and termination is under AGCL scope under assistance/ supervision of bidder. However commissioning activities shall be carried out by bidder only as per actual project requirement. |



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| 36 | Volume II of II : Technical | Page 6 of 139 | 1.0 MATERIAL REQUISITION | Vendor to facilitate one number of International visits of 4 Nos. client/PMC/Consultant personnel for FAT or Training sessions or to visit Manufacturer parent company of the meter for a week. Bidder to quote considering the above. | Our understanding is FAT will happen at Bidders place (in India) so we will arrange the Training sessions at our facility in India. In case client wants to visit Manufacturing facility of the meter than bidder will only have to facilitate the training at Manufacturing facility. All other expenses like, traveling, lodging, boarding, flight tickets etc shall be in Client scope. Please confirm. | Any parts required here are from outside the India, then bidder should arrange an international visit for training sessions. However bidder to facilitate the international visit as per the tender for training sessions, OEM part companies, etc., which shall be included in bidder price. |
| 37 | Volume II of II : Technical | Page 15 of 139 | 1.0 MATERIAL REQUISITION | ATTACHEMENT- 1 Process data for Sizing of the flow meter. | We understand that for Item no. 1.2 we have consider 8" USM and for item no. 1.3 we have to consider 6" USM. Please confirm. | Velocity as 20m/s shall be the maximum allowable velocity. However, bidder to consider the operating velocity of fluid for continuous operation as 10-12 m/s and size the meter accordingly. However, bidder should submit the sizing calculation after award in order to review and approval of document. |
| 38 | | | Ultrasonic Meter datasheet | Enclosure | We request VCS to except IP 66 enclosure as same is acceptable in all other gas companies. | Tender Conditions shall prevail. |
| 39 | | | Ultrasonic Meter datasheet | Intrinsic safe | We request VCS to except T6 Temperature class as maximum design gas temperature is 65 deg C. | Accepted |
| 40 | | | Flow Computer Datasheet | Digital Input/Output | Please confirm If 6 nos of mixed DI/DO required or on separate 6 DI & 6 DO required. | Bidder to consider min. 6 nos. of Mixed DI/DO, however DI/DO shall be equal in qty. |
| 41 | Volume II of II : Technical | | | 4.1 Notes for Vendor Purchaser's inspector reserves the right to perform stage wise inspection and witness tests, as indicated in Specification for Ultrasonic type Flow meter at Manufacturer's works prior to shipment. Manufacturer shall give reasonable notice of time and shall provide without charge reasonable access and facilities require for inspection to the Purchaser's inspector. Inspection and tests performed/witnessed by Purchaser's inspector shall in no way relieve the Manufacturer's obligation to perform the required inspection and test. | We generally do not entertain the stage wise inspection. The final inspection shall be considered. | Noted |
| 42 | Material Requisition:1009-00-IN-MR-5014, Rev.D., | Volume-I\I, Page 7 of 139 | Clause 4, Notes. | Vendor to facilitate one number of International visits of 4 Nos. client/PMC/Consultant personnel for FAT or Training sessions or to visit Manufacturer parent company of the meter for a week. Bidder to quote considering the above. | We understand that following expenses needs to be considered for international travel shall be borne by vendor: 1. air fair (to and fro) 2. lodging and boarding 3. local travel (from hotel to OEM factory and return) 4. Visa charges 5. All risks and liabilities with respect to such International visits for Client/PMC/Consultant personnel shall be borne by the Client/PMC/Consultant respectively and the Vendor shall not have any liability for any reason whatsoever in this regard. 6. also, any such international visit will be subject to prevailing Covid situation and/or any applicable travel restrictions/guidelines in India and the destination country. All other charges except above to be borne by client/PMC/consultant. Kindly confirm the above. | Bidder Understanding is correct |
| 43 | Material Requisition:1009-00-IN-MR-5014, Rev.D., | Volume-II, Page 7 of 139 | Clause 4, Notes. | Bidder shall perform field calibration / testing, pre-commissioning & commissioning | Please clarify the meaning of the field calibration/testing. | Bidder shall provide calibration report from reputed agencies than field calibration is not required else bidder to perform field calibration. However bidder to perform testing and commissioning as per actual process requirement at site. |
| 44 | Material Requisition:1009-00-IN-MR-5014, Rev.D., | Volume-II, Page 7 of 139 | Clause 4, Notes. | Transit Insurance, loading and unloading of material at AGCL site/stores; | We understand that Transit Insurance shall be in AGCL Scope. Also unloading of material at AGCL site shall be in AGCL Scope. Please confirm. | Bidder understanding is not correct. Transit insurance and unloading at site as per tender requirement is under bidders scope only. |
| 45 | Material Requisition:1009-00-IN-MR-5014, Rev.D., | Volume-II, Page 8 of 139 | Clause 4.1, Notes to vendor. | Vendor to include the Mandatory spares in the quoted price. Vendor to refer document no.: 1009-00-IN-LST-5014 for the Mandatory spare list. | We understand that only one set of the mandatory spares to be quoted as per the list provided in the tender document. Please confirm. | Bidder understanding is correct. |
| 46 | Material Requisition:1009-00-IN-MR-5014, Rev.D., | Volume-II, Page 9 of 139 | Clause 4.1, Notes to vendor. | The delivery location of all the items shall be in AGCL Duliagan, Assam and delivery schedule shall be 4 (Four) months from the date of FOI. | Delivery schedule of 4 months is too short. Due to pandemic situation and with limited man power rule, many vendors are facing problem for the supply of the Material. Hence we request to keep the delivery of 6 Months from the LOA / FOA. | Tender Conditions shall prevail. |
| 47 | Material Requisition:1009-00-IN-MR-5014, Rev.D., | Volume-II, Page 9 of 139 | Clause 4.1, Notes to vendor. | 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. | Warranty shall be applicable only on the manufacturing defects. The warranty shall be 12 months from date of supply or 18 Months from date of commissioning whichever is earlier. Components / Parts in warranty shall be replaced free of cost, however the service visit shall be charged for the replacement / checking. Also the warranty of the component replaced shall remain the same i.e. 12 months or 18 months from the date of supply or 18 months from the date of supply. Please confirm. | Tender Conditions shall prevail. |



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| 48 | Typical Schematic for USM flow meter and USM datasheet | Volume-II, Page 14 of 139 | USM datasheet Note-9 | In the schematic, at upstream 10D+profiler+10D spools are shown and at downstream only 10D spool is shown. Note-9 Straight meter run of 10 ND(Nominal pipe diameter) between upstream of the flow conditioner, 10 ND between flow conditioner and the meter and 5D downstream of meter shall be supplied by the meter manufacturer and used during wet calibration | As USM is Bi-directional, understand bidder has to supply the Spools as 10D + Profiler + 10D at upstream and 10D + Profiler + 10D at downstream. Please confirm. | Schematic drawing attached along with tender is typical arrangement reference drawing for USM. However to consider straight along with profiler (10D+profiler+10D) for upstream and downstream) for bidirectional USM flow meter. |
| 49 | Attachment I to USM datasheet | Volume-II, Page 15 of 139 | Process parameters | As per MR, at sr. no. 1, there are two numbers of 8" USM. Process parameters, for tag 1009-00-FT1004, pressure range is 9-13 bar. | For Tag no. 1009-00-FT1004, as per given process parameters the USM size is coming 6" as per velocity limit criteria provided in tender i.e. USM shall be size for velocity below 20 m/s.. Please clarify, whether bidder has to quote as per size mentioned in the MR (i.e. 2 nos 8" and 1 no. 6" USM system) or as per sizing calculations complying 20 m/s velocity criteria. If velocity criteria is considered, then there will be 2 nos 6" USM and one no. 8" USM be quoted. Please Clarify the requirement. | Velocity as 20m/s shall be the maximum allowable velocity. However, bidder to consider the operating velocity of fluid for continuous operation as 10-12 m/s and size the meter accordingly. However, bidder should submit the sizing calculation after award in order to review and approval of document. |
| 50 | Material Requisition:1009-00-IN-MR-5014, Rev.D., | Volume-II, Page 7 of 139 | Clause 4, Notes. | Procurement of Instrument cables from instrument to JB & from JB to flow computer along with erection, hardwired, JB, Cable Glands as required. | Please provide the distance form field JB to Control room for each Tag for calculating the cable length requirement. | Bidder to consider approx. 100mtrs. distance from JB to control room |
| 51 | USM flow meter datasheet | Volume-II, Page 14 of 139 | Serial No. 12 of datasheet | Meter type, bi-directional | Please clarify that the application for the USM meter is for measuring flow in forward directional as well as reverse direction. If the application use for bi directional, we recommend the meter calibration to be performed in both the directions. Kindly clarify and confirm | USM meter shall be used in application for measuring flow in forward direction and reverse direction. Hence meter calibration to be performed in both the directions along with calibration report. |
| 52 | QAP for Instrument Items and Mechanical Items. | Volume-II, Page 14 of 139 | | Instrument Items and Mechanical Items | All the instrumentation items i.e. USM, FC, PT,TT,RTD,TW, Panel etc shall be with 3.1 certification and Mechanical items (pressure parts) i.e pipe, fitting, flanges etc shall be with 3.2 certification as per EN 10204. Please confirm. | Bidder's understanding is correct. However, all the pressure containing items should be inspected and tested as per 3.2 certification and rest instruments shall be inspected as per 3.1 certification. |
| 53 | General | | | Wet Calibration for Ultrasonic Flow Meter | Please confirm that calibration at GAIL Hazira is acceptable and the meter can be calibrated at available calibration pressure at the lab. | Accepted. |
| 54 | Standard Specification of Flow Computer | Volume-II, Page 69 of 139 | Clause No. 5 Design | Flow Computer in in equipment room shall be rack (within panel/ wall mountable as mentioned in datasheet) | Flow computer to supplied and installed within panel. As per clause wall mounted panel is acceptable. Kindly confirm the same. Also provide the detailed specification of control panel. | Bidder to refer the Annexure-A attached for specifications of panel. |
| 55 | | | | | 1) Conform the usage of Application - (Gas or Water), 2) Size line of the flow meter, 3) Medium to measure, 4) Operating pressure, 5) Flow rate (minimum-Maximum), 6) Accuracy, 7) how much Output, 8) Approved make. | Bidder to refer pg no.: 14-20 of 139 in tender document for the better understanding |