



**REPLY TO BIDDER'S PRE-BID QUERIES**

Date: 10.12.2019

**SUPPLY OF ASSORTED VALVES**

Tender No : AGCL/BD/PMC-GHT/ASVLVE/2019/73

Pre-bid meeting held on : 06.12.2019



Sl. No.	Tender Clause No.	Description	Bidder's Query/Clarification	AGCL/VCS Reply
<b>TECHNICAL</b>				
1	Delivery	As per clause 5 of Invitation of Bids ( IFB) delivery required is within 05 months.	For current MTO & technical requirements, 05 months delivery mentioned in tender looks difficult to meet. Hence we propose delivery - starting 24 weeks & completion by 34 weeks. We request you to accept this proposed delivery considering 3.2 certification, long lead time Electro-Hydraulic actuators and Delivery terms - at site.	For delivery, Tender condition will prevail. TPI shall be deployed by Owner for inspection.
2	For Part A, serial number 1.17	Part -A Remark : 100% solid epoxy (In Valve Pit)	If valve installation is in Pit then please clarify stem extension requirement. Also against "100% Solid epoxy", we understand the solid epoxy is not an intended service for subject valve. It is only a painting requirement , please re-confirm.	Stem extension for the said valves (Sr. no. 1.17) not required. Bidder to consider valve with normal operator.
3	Tender Evaluation	As per IFM clause 32.4.2 , bid evaluation is part wise, and also as per 32.4.3 Bidder must quote full quantity of quoted item of SOR, failing which bid shall be rejected.	For Part A, serial number 1.17 , as per remark column states "100% Solid epoxy" . We understand the solid epoxy is not an intended service for subject valve. If 100% solid epoxy is media / service for the subject valve then Virgo-KTM regret to quote this valve in turns we regret to quote Part A . Please provide clarity on valve service / Media.	Solid epoxy mentioned against Sr. no. 1.17 is a external painting requirement only. Service of the valve is natural Gas.
4	Seat & Seal material :	As per Data Sheet Seat : Primary R-PTFE with Secondary Metal to Metal Stem Seal : GRAFOIL / PTFE V-RINGS+GRAFOIL	Seat for Trunnion Mounted Valve : Devlon / Peek with Secondary Metal to Metal Stem Seal : PTFE Lip seal + Graphite.  Note that as per specifications , Design temperature for Carbon Steel Valve is -29C to & For Low temp. Carbon steel ( LTCS) valves it is -45°C. We understand that for above temperature elastomeric seals are not suitable like Viton O ring , hence we are offering PTFE seals only. Also for LTCS cryo testing as per BS6364 is applicable at -45°C, hence Viton will not be suitable.	Normal operating temprature is 65 degC to 0 degC . Hence seat shall be suitable for 65 degC to -29 degC (For CS), 65 degC to -45 degC (For LTCS). Also Vendor shall recommend safety procedure to be taken during welding so that seat do not get damaged .
5	Matreial Certification : EN 10204 - 3.2	DOCNO: VPC-SPC-5207 , Clause 7.2 The Manufacturer shall submit test certificates in compliance with EN 10204 "Type 3.2" inspection certificates.	The scope of 3.2 Certification is not specified in Tender document . We propose Valve Body and Adapter ( pressure containing part )to provide : EN 10204 "Type 3.2" For Metal components - ball, stem , seat & Fasteners we propose to provide : EN 10204 "Type 3.1". And for Soft parts : EN 10204 "Type 2.2"	Bidder to refer ITPs (VCS-PL-ITP-2003, 1009-00-IN-ITP-2003) for clarity in Inspection. TPI shall be deployed by Owner for inspection as given ITP.
6	Valve Type	DOCNO: SS-PI-012 , Clause 3.18.7 , page 80 of 241 Ball valve design ( Floating / Trunnion ) as per size & pressure rating	Tender specs define floating valve for valve size8" & belwo for #150 & 4" & belwo for #300 , however as per valve data sheet , all valve are required in Trunnion mounted design. Please clarify if valve design as per clause 3.18.7 Or as per data sheet.	All Valves shall be Trunion Mounted design. Bidder to follow the data sheet.
7	Actuator Body material	DATA SHEET MOV / Body Material of actuator : Carbon steel	We would like to inform you that we have offered Aluminium actuators. Kindly confirm if this is acceptable.	Actuator Body materia shall be Cast aluminium or Di-cast aluminium alloy or cast Iron of ingress protections of IP 67.
8	DATA SHEET MOV / Communication Interface	DATA SHEET MOV / Communication Interface	Kindly confirm the required communication for the actuators because we found that datasheets requires MODBUS while specifications STANDARD SPECIFICATION FOR ELECTRICAL MOTOR ACTUATOR VALVES - 4.4 Remote Control and Monitoring / Technical details / Communication Protocol require FIELDBUS. We have provided MODBUS as per the datasheet. Please confirm your acceptance	Communication interface of actutor shall be hard wired as well as MODBUS RTU RS 485.For Hard wire communication, following signals shall be provided in the actuator box: 1.Valve open command for remote, 2. Valve close command for remote, 3. Valve local / Remote selection, 4. Valve Fault / Trouble, 5. Valve Open feed back and 6.Valve close feed back as minimum
9	Tag plate	DATA SHEET MOV / Notes: Tagplate (SS316) stamped with instrument tag number and service in 10 mm characters shall be attached via SS wire (1mm).	Biffi's standard tag plate is attached along with the Pre Bid Query. Please refer to the same and confirm your acceptance.	Accepted



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10	STANDARD SPECIFICATION FOR ELECTRICAL MOTOR ACTUATOR VALVES / 5.2.1	Electric Motors / The Motors shall be suitable for continuous operations with a voltage tolerance of +/- 20% without exceeding permissible temperature rise in any part of the Motors	Biffi offered motor duty is S4-25% 60 Starts/h. Please confirm your acceptance.	Accepted
11	Painting	STANDARD SPECIFICATION FOR ELECTRICAL MOTOR ACTUATOR VALVES / 8. Painting	Biffi actuators are painted with "System 03" painting (attached in the email) with Top coat RAL 7032. Kindly confirm if the same is acceptable	Accepted. Bidder to ensure that top coating of actuator shall be as per the tender.
12	Testings	STANDARD SPECIFICATION FOR ELECTRICAL MOTOR ACTUATOR VALVES /6.2 Testing of Materials	Please refer Biffi's standard ITP for testings. Should it be different please advise.	Regarding Biffi's standard ITP as mentioned in his document Caluse No.7 is Normal standard proceduers followed for actuator valves, but MOV inspection and testing as mentioned in standard specification of tender in Clause No.6 shall be followed.
13	Data Sheet	Material Requisition - Assorted Valves	Against item no. 2.01, in the material requisition you have mentioned data sheet no. 1009-00-PP-DS-2016B which is not available in the tender documents but you have attached data sheet no. 1009-00-PP-DS-2003E. Please clarify	Data sheet no mentioned in MR is updated, kindly refer table attached with corrigendum-1.
14	Data Sheet	Material Requisition - Assorted Valves	Against item no. 2.02, 2.03 & 2.06, in the material requisition you have mentioned data sheet no. 1009-00-PP-DS-2016C which is not available in the tender documents but you have attached data sheet no. 1009-00-PP-DS-2003S. Please clarify.	Data sheet no mentioned in MR is updated, kindly refer table attached with corrigendum-1.
15	Data Sheet	Material Requisition - Assorted Valves	Against item no. 2.04 & 2.05, in the material requisition you have mentioned data sheet no. 1009-00-PP-DS-2016A which is not available in the tender documents but you have attached data sheet no. 1009-00-PP-DS-2003C. Please clarify.	Data sheet no mentioned in MR is updated, kindly refer table attached with corrigendum-1.
16	Data Sheet	Material Requisition - Assorted Valves	Against item no. 3.01, in the material requisition you have mentioned data sheet no. 1009-00-PP-DS-2016D which is not available in the tender documents but you have attached data sheet no. 1009-00-PP-DS-2003H. Please clarify.	Data sheet no mentioned in MR is updated, kindly refer table attached with corrigendum-1.
17	Data Sheet	Material Requisition - Assorted Valves	Against item no. 3.02, in the material requisition you have mentioned data sheet no. 1009-00-PP-DS-2016E which is not available in the tender documents but you have attached data sheet no. 1009-00-PP-DS-2003I. Please clarify.	Data sheet no mentioned in MR is updated, kindly refer table attached with corrigendum-1.
18	Data Sheet	Material Requisition - Assorted Valves	Bidder do not find the "Data Sheet for 1009-00-PP-DS-2016-A/B/C/D/E"	Data sheet no mentioned in MR is updated, kindly refer table attached with corrigendum-1.
19	Data sheet	Page.No. 52 to 55, 56 to 57 of 241	As per actuator data sheets, operating time is indicated as to be given by vendor. Please note, the operating time is one of the important factor in actuator sizing, being a project requirement that needs to be decided pre order stage itself.	<ul style="list-style-type: none"> <li>Kindly consider valve closing time for EH actuator as less than 1 sec per inch and for MOV 2 to 3 sec per inch of valve size.</li> <li>Actuators shall be sized considering the power fluid supply pressure is equal to the differential pressure across the valve.</li> <li>The Vendor shall specify and tabulate in his quotation the required torque figures for each valve and the delivered torque figures by the actuator (based on the minimum power fluid supply pressure).</li> </ul>
20	Datasheet	Page.No. 63 to 69 of 241	Please confirm the requirement of Fire proofing for actuators. As per the process data sheets for on-off valves, "Fire safety required" is indicated as "yes". Please confirm.	<ul style="list-style-type: none"> <li>Confirmed, Valve shall be required fire safe design. Fire proofing for actuators is not required</li> </ul>



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21	Datasheet	Page.No. 52 to 55, 56 to 57 of 241	Please confirm the fail close mode of MOV & EH actuators as fail last for all the Tag Nos.	<ul style="list-style-type: none"> <li>All MOV shall be Fail Last.</li> <li>EHOV shall be fail close in case of power failure only, all other cases shall be Fail Last. EHOV's shall be of self-contained type.</li> <li>The entire valve, actuator assembly and the accessories shall be of proven design and shall have high MTBF values (typically 30 years), which correspond to high reliability. Further the complete valve actuator assembly will be partial stroke tested to minimize the probability of valve getting stuck in open condition (15% and 20% movement from the fully open) during the specified test interval.</li> <li>In addition, the partial stroke testing shall be carried out remotely through the Pipeline control system. Necessary hardware and interlock scheme shall be provided by the valve supplier.</li> </ul>
22	ITP	Page.No. 169 to 185 of 241	As per tender 3.2 certification is applicable for the tender. However there is no 3.2 (stage inspection) applicable as per the given valves & actuators ITP (only final inspection applicable). Please check and define the stages of inspection for 3.2 certification to enable us to consider the same.	<ul style="list-style-type: none"> <li>The certification shall be 3.2, vendor to follow ITP requirement for delivered products. Sourcing of material under 3.2 is vendor responsibility.</li> </ul>
23	RT of Valves	ITP / Specification	As per valves Inspection and test plan, RT required for Ball, Seat and stem. But, as per specification, RT is defined only for Body castings. Please clarify.	Bidder to follow the ITP (VCS-PL-ITP-2003) enclosed with the tender.
24	-	Approved Vendor List	Approved Make of Electric & EHOV vendor	Please refer recommended actuator vendor attached with the corrigendum-1 (attachment-02)
<b>COMMERCIAL</b>				
25	Commercial Volume I of II	Clause 10.1.5 of IFB	As per tender document, a unit registered under MSME is exempted from payment of tender fee and EMD. We have such registration as major activity manufacturing. Copy of Udhdyog Adhar is attached herewith. However for the items of this tender, we would be An Authorized Distributor and not manufacturing this item. We shall represent Valve manufacturing company of China. Kindly guide us if we are required to pay Tender Fee and EMD or eligible for exemption?	Exemption of EMD and Tender Fees is for MSE quoting for items against which they are registered in MSME. Bidder to submit Tender fee and EMD accordingly