 MAHARASHTRA NATURAL GAS LIMITED	Tender for Procurement of SS Fittings, SS Ball Valves & Thermoplastic Hoses for CNG & CGD Projects of MNGL, Pune Bid No.: MNGL/C&P/2019-20/44
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Date: 01.08.2019

Replies to Queries of the Bidders

SUB: Replies to queries of the bidder for Procurement of SS Fittings, SS BallValves & Thermoplastic Hoses for CNG & CGD Projects of MNGL, Pune

REF: Bid Document No. MNGL/C&P/2019-20/44 dated 10.06.2019, Addendum – I dated 29.06.2019, Addendum – II dated 15.07.2019 & Addendum – III dated 25.07.2019

Dear Sir,

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

S.No	Bidder's Query / Clarification	MNGL' Reply
1	Breakaway coupling for 3/8" ID HOSE, Material - SS316/SS303 Min. Flow rate– 2000 SCFM, Rated Pressure – 6000 PSI@ 70 Deg. F, Temperature – 0 Deg. F to 400 Deg. F Make- OPW /Parker 1)Standard working pressure is 5000 PSI as per NGV 4.2 standard. 2)Temperature rating as per NGV 4.2 standard shall be: -40F to +185F 3)Please include Staubli (France) make in approved vendor list. Staubli is approved in all CGD vendors list.	1)5000 PSI Standard working pressure is accepted. 2)Temperature Range -40F to +185F is accepted. 3)Staubli make Breakaway Coupling is accepted.
2	3/8" ID HOSE Hose Length: 3.5 Feet & 1.5 feet Hose end to end Connections: 3/8" OD Tube adaptor with nut & ferrule with both end SS spring guard.Material –SS316, Conductive core Thermoplastic hose for CNG service. Rated Pressure – 6000 PSI@ 70 Deg. F Temperature – 0 Deg. F to 400 Deg. F End Fittings make- Parker/Swagelok/SSP/ Superlok 1)Standard working pressure is 5000 PSI as per NGV 4.2 standard. 2)Temperature rating as per NGV 4.2 standard shall be: -40F to +185F 3)Please include DKLOK make End Fittings. Dk lok is already approved in vendor list of CNG Dispensers.	1)5000 PSI Standard working pressure is accepted. 2)Temperature Range -40F to +185F is accepted. 3) Tender condition prevails for end fittings.




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3	<p>Technical specification for fittings/ ball valves /Hoses Area classification shall be classl as per NEC or Zone 1</p> <p>Area classification is subjected for electrical components and hence does not apply to our components as they categorize as mechanical components.</p>	<p>Bidder understanding is correct. This clause defines area where components are to be used.</p>
4	<p>Technical specification for ball valves Material of construction of seat springs for ball valves (CI # 5.3)</p> <p>Material of construction of seat springs is Alloy X-750 For 83 series ball valves; however it is SS316 for AFS ball valve.</p>	<p>MOC of seat springs for 3-way ball valves shall be X-750 & for 2 way Ball valve shall be SS 316.</p>
5	<p>Technical specification for ball valves- Valves shall be rated for a maximum working pressure of 5000 psig and shall be capable of operation between a temperature range of (-40)° to 250°F.(CI # 6.2)</p> <p>Swagelok 83 series ball valves have the working temperature range of (0 to 450°F).This is well suited for CNG application and widely sold to CGDs.</p>	<p>Accepted</p>
6	<p>Technical specification for ball valves Bottom loaded stem for ball valves (CI# 6.5)</p> <p>83 series are bottom loaded stem design whereas AFS ball valves are top loaded. However all the valves are blow Out proof design.</p>	<p>Bidder to note that top loaded & bottom loaded stem design is accepted provided all the valves should be blow out proof design.</p>
7	<p>Technical specification for ball Valves-Three way ball valve</p> <p>We will be quoting the upgraded 3 way ball valve as discussed.</p>	<p>Tender condition prevails.</p>
8	<p>Technical specification for Hoses-Length for 1.5-foot hose (SOR) The minimum length requirement for this hose is 21"(1.75 foot) considering the size of hose and end connections with spring guards installed.</p>	<p>1.75 ft. hose is accepted</p>
9	<p>Technical specification for Hoses-hose working pressure and temperature (CI#5.2.3) The max working pressure of offered NG hose is 5000 psig (@70°F)</p> <p>1)The max working pressure of offered NG hose is 5000 psig (@70°F) 2)Temperature range is (-40)° to 150°F</p>	<p>1)5000 PSI Standard working pressure is accepted.</p> <p>2)Tender conditions prevail. Bidder to refer point no. 1</p>

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10	<p>Group-B: SS Quick Connector Coupling with Non-return valve, (Coupler) Size: 1/2"NPTFemale, Material-SS316, Rated Pressure-6000 PSI @70Deg.F. Temperature- 0 Deg. F to 400 Deg.F , Make -Parker/Swagelok/SSP</p> <p>Please confirm if you need coupler only. If YES kindly confirm part number of nipple to ensure compatibility.</p>	<p>Bidder to note that we require both coupler & Nipple.</p> <p>Part No. for Coupler: SH4-62 Part No. for Stem/ Nipple: SH4-63</p>
11	<p>Group-D : Conductive Core Thermoplastic Hose Electrically Conductive Core Thermoplastic Flexible Hoses with breakaway coupling.</p> <p>Breakaway does not come with OD End connection. If we convert then we shall be increasing number of joints & hence number of leak paths. We can connect the hose directly to the breakaway. Kindly confirm acceptance.</p>	Accepted
12	<p>Quick Connect Coupling & CNG Hoses.</p> <p>We request you to include SEALEXCEL make in the approved list for CNG HOSE Pipes with its end fittings & Quick Connect coupling.</p>	<p>Tender condition prevails for Quick connect coupling.</p> <p>Sealexcel make CNG Hose pipes with its end fittings are accepted provided it satisfies tender terms & conditions.</p>

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)