

REPLY TO BIDDER'S QUERIES					
Bid Document for the Procurement of SS Tubes for the CNG Stations for Kanpur, Unnao, Bareilly & Jhansi				Bid Document No.: CUCL/C&P/TEN2021/20,219,045 dated 20.03.2021	
Sr. No.	Bid Reference		Subject	Bidder's Queries/ Observation/Comments	CUCL Response
	Section	Clause No.			
1	6.2	Technical Specifications of SS Tubes	Tubing material shall have minimum molybdenum content 2.5% carbon content of max. 0.030%	For more stringent tender specifications of tubing we request to add Nickel min. 13% and Chromium min. 17% ASTM requires Nickel 10-14% and Chromium 16-18%, but does not specify any application. Nickel :- It help in improving material toughness allowing it to sustain a higher pressure. Also, a higher Ni% helps in corrosion resistance and prevents stress corrosion cracking. Nickel stabilizes the austenitic structure, so the alloy is nonmagnetic and ductile over a wide range of temperatures. Chromium :- gives the steel its corrosion resistance. Chromium participates in the formation of a complex chromium oxide layer on the surface of the alloy.	Tender Condition Prevails
2	6.6	Technical Specifications of SS Tubes	Tube hardness shall be less than Rb 80. Tubes shall be NACE MR 0175 certified for hardness. Hardness test shall be carried out on each tube.	We suggest to include a controlled hardness from 70-80 HRB, this will ensure that tubing is not very soft and not very hard either. Differential hardness is almost requirement for proper swaging on tubing.	Tender Condition Prevails.
3	6.7	Technical Specifications of SS Tubes	Each tube shall be hydrotested as per requirement of ASTM A 450 clause 22.3, at a hydrotest pressure of 350 kg/cm ² (g). However, it shall be ensured that the test pressure does not result in stresses exceeding the yield strength at test pressure.	As per your tender enquiry the technical specification of SS Tubes mentioned calls out for tubes to be hydro tested. However, we would like to update you that as per ASTM 269 standard where it is clearly mentioned tubes can be either eddy current or Hydro tested. We would like to share that we conduct 100% online eddy current testing on our tubing products. We request you to kindly consider 100% eddy current testing for SS Tubes. Imperfections will be caused after hydrotesting at both the ends, also tubing is under potential risk of bending during hydro testing	100% eddy current testing for SS tubes is acceptable.
4	6.9	Technical Specifications of SS Tubes	Tolerance on outer diameter shall be $\pm 0.005"$	As per the tender specification the tubing OD tolerance should be $\pm 0.005"$ (± 0.12 mm), for better sealing and minimize leakage we suggest the Outer Diameter tolerance should be ± 0.08 mm.	Tender Condition Prevails.
5	6.11	Technical Specifications of SS Tubes	Minimum thickness shall be as follows: for 3/4" X 0.095 - 5000 psig	Request you to consider 4900 psig working pressure for 3/4" OD x 0.095" WT tubing, as per our latest Tubing Data Sheet.	Tender Condition Prevails.
6				Request to add HOT EXTRUSION process for tube manufacturing in tender, please find attached the presentation for benefits of using HOT Extrusion process. Hot extruded mother pipe must be used for manufacture of seamless tubes. It is not acceptable to use hot pierced mother pipes to avoid porosity, tearing and cracking on the tube surface due to presence of impurities in the billet's core during operation at high pressures.	Hot Extrusion Process already mentioned in technical specification. Refer Clause No. 6.17 of Technical specification Pg. No. 99.
7		Clause 1.2 of Bid Evaluation Criteria	The bidder should have supplied SS Tubes for CNG application having minimum quantity of 2766 meters of 1/2" size or higher in a single order in last seven (7) years, reckoned from the bid due date to any of the City Gas Distribution Company in India.	(a) Please confirm that if bidder is an authorised distributor of a Manufacturer, can the bidder submit the BEC documents of an order executed by the Manufacturer to qualify the above clause. Please note that as a distributor, we do not have a single order for above mentioned quantity and hence we request you to allow us to submit the BEC documents of the Manufacturer to qualify the above clause. We are meeting all other financial criteria as per the tender. This is acceptable to all other CGDs. (b) If above request criteria is not acceptable, we request you to please decrease the limit minimum quantity to 2000 meters.	Tender condition shall prevail



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8		Clause 4.1.1 of Delivery Schedule	As per tender Delivery of the materials shall be completed within 06 (Six) weeks from the date of award	Tender condition shall prevails
			(a) Please note that due to ongoing COVID-19 Situation, the mills are not operating with full capacity and it will be difficult to supply the tubes in 06 weeks' time. Also, please note that the tubes being 6 meter in length its takes up to 2 weeks for transportation only to your delivery location. In view of this, we request you to revise the delivery period to 16-18 weeks.	

Bidder are required to submit the 'REPLY TO BIDDER'S QUERIES' alongwith the bid duly signed & stamped.

