

TENDER No. IPR/TN/PUR/TPT/ET/20-21/10 dated 31-12-2020 for Design, fabrication, supply, installation and commissioning of Waste Feeder Chamber and Primary Chamber assembly.

PRE-BID CLARIFICATION

Sr. No.	Vendor Query	IPR Comments
01	Lining Certificates will be manufacturer certificate (No NABL lab do the testing of bricks). Even the brick manufacturer does not give sample for testing. They just say take the material and do whatever you want. Please see into this.	Vendor shall submit test certificates of lining materials to IPR issued preferably by NABL accredited laboratory or else Government organization laboratory for acceptance by IPR before starting of bulk procurement of lining material and subsequently work at the factory site.
02	In Waste feeder Chamber brick Lining cannot be done instead of brick lining high temperature castable will be used.	Vendor may use high temperature castable instead of layers of brick lining where brick lining is not possible due to inadequate space, components shape/orientation, etc. In such case, vendor has to do the following: 1) Vendor shall provide proper justification for such relaxation in the bid. 2) Vendor shall demonstrate mechanical integrity and homogenous structure of castable material through prototype component trials before actual work. At those locations, all layers shall be of same castable material. 3) The properties of castable materials should be in compliance with those mentioned in table below;

		Parameters	Properties
		Classification temperature, (⁰ C)	1200 ⁰ C - 1700 ⁰ C
		Bulk density, (Kg/m ³)	700-1300 kg/m ³
		Cold Crushing strength, (kg/cm ²)	≥ 25 kg/cm ²
		Thermal conductivity (W/m-K)	≤ 0.40 W/m-K @ temperature 600 ⁰ C
03	RT of the welding as such not required in this job , DP test can be done for all the joints	<ol style="list-style-type: none"> 1. Dye Penetrant (DP)/Liquid Penetrant Test (LPT) is mandatory for all weld joints. 2. 10% Radiography Test (RT) shall be carried out for all but weld joints as per relevant ASME/ASTM standard. In case, Where RT is not feasible an Ultrasonic Examination in lieu of Radiography test to be carried out. 	
04	In primary middle chamber the outlet nozzle of gas there also brick lining cannot be done instead of brick lining high temperature castable will be used	Kindly refer answer mentioned in point 2 above.	
05	The support structure Material will be IS2062 Make SAIL, ESSAR, JINDAL OR EQUIVALENT.	Please see point 2, 3 and 4 of Annexure - II under tender document. Or materials of equivalent make is already mentioned.	
06	At the time of erection crane or Hydra to be provided by IPR.	Overhead crane will be available at the site. However, in case if overhead crane is not usable due to any reason, it is vendor's responsibility to arrange other suitable mechanical means i.e. hydra, etc. The vendor may enquire with IPR about contact details of possible local service providers.	

07	Structural Analysis: Do you require analysis performed by third party or by us?	The vendor shall carry out Analysis as per technical requirement either in-house or through suitable out sourcing professional party.
08	Welding Rod: Is welding rod of D&H or Honavar accepted instead of ESAb?	Please see point 8 of Annexure - II under tender document. Materials of equivalent make is already mentioned.
09	Material Grade for Structure: Instead of IS 2062 E300 we would like to propose IS 2062 E250 BR or IS 2062 E350 BR due easily availability in local market and hence proving cost effective than IS 2062 E300.	Material Grade for Structure: IS 2062 GRADE E300/E350 quality A/BR shall be acceptable. IS 2062 E250 A/BR is not allowed.
10	Vender shall have to demonstrate complete assembly of fabricated components during Factory Acceptance Test (FAT)?	Vender shall demonstrate full assembly of fabricated components at factory site during FAT for inspection of mechanical integrity of fabricated structural and lining materials. However, components bought-out by IPR i.e. Gate valves, plunger assembly, electrode assemblies will not be provided by IPR as Free Issue Material (FIM) during FAT. Such components to be provided by IPR during assembly and installation to be performed by vender at FCIPT/IPR, Gandhinagar site (i.e. During SAT).
11	Who will bear cost of repair/maintenance to be performed during Post warranty support? Whether Post warranty support is mandatory or optional?	Vendor shall have to submit undertaking for post warranty support in the bid itself. It is mandatory. However, relevant terms and conditions as well as cost for such post-warranty support is "Not To Be Included" in the quotation against the present tender. It will be executed as and when required at actual price quoted as per IPR purchase rules after expiry of warranty period.

12	Whether the foundation required for structure is in vendor scope or in IPR scope?	The construction of foundation is in IPR's scope but suitable design and analysis of foundation for erection of structure is in vendor's scope. Vendor has to submit foundation design for acceptable support structure design during execution of tender. IPR will make foundation based on vendor design.
13	The soil bearing capacity required for seismic analysis will be provided by IPR or not?	IPR will provide detail of soil bearing capacity of Homi Bhabha Cancer Hospital (HBCI), Varanasi site where the system will be finally commissioned by IPR.
14	Who will bear cost of repair/maintenance to be performed during Post warranty support?	The cost for post-warranty support is "Not To Be Included" in the quotation against the present tender. It will be executed as and when required at actual price quoted as per IPR purchase rules after expiry of warranty period. However, Vendor shall have to submit undertaking for post warranty support in the bid itself. It is mandatory.
15	When IPR will provide weight of bought-out components such as gate valves, electrode assemblies, etc.?	Within a week, IPR will upload the detail on online tender portal in separate sheet with additional technical information presented in the meeting.
16	Vendor has to adhere delivery schedule as shown by IPR in tender document. Is it allowable to do necessary changes in delivery period?	The vendor shall submit their proposed delivery schedule in the bid. However, proposed schedule is preferable. IPR will take decision followed by committee recommendation and intimate to the vendor accordingly.
17	Support structure to be design for 40 ton capacity?	Vendor shall carry out design and analysis of support structure based on actual weight to be applicable. The total weight of waste feeder chamber and primary chamber assembly including bought-out components will be approx. 40 ton. Vendor shall consider appropriate safety factor as per design criteria.

18	What kind of support structure and service platform will design as cost is vary with kind of support structure and service platform?	The support structures and service platform shown in engineering drawings number IPR/APD/20/A3/CBWTF/SPSS under Annexure-I are conceptual only. Vendor shall make suitable support structure and service platform design based on structural integrity for load combinations and quote accordingly. The design of support structure and service platform will be reviewed and approved by IPR.
19	Is it permissible to carry out refractory lining work at after delivery of components at FCIPT site?	No, it is not permissible to do lining work at FCIPT site. It has to be completed at Factory.