PRE-QUALIFICATION CRITERIA				
CS Tube sheet forging for High Pressure Feed Water Heater Application				
S.No.	BHEL Requirement	Vendor's Confirmation	Deviation if Any	Remarks
1	All the suppliers need to submit this document i.e. titled pre-qualification criteria and furnish required information along with offer.			
2	a) Name, address, e-mail id, contact no. etc. of Tube sheet forge master.			
	b) Name, address, e-mail id, contact no.etc. of authourised agency / trading house quoting on behalf of manufacturing mill. In case offer is received from authourised agency / trading house, the following requirements shall be full filled. i) Valid letter of authorisation and copy of agreement to be enclosed with offer. ii) The offer should be either from the authorised agency or from the manufacturer directly. In case of BHEL receiving offer from both, then offer from manufaturer will only be considered. Offer from an unauthorised agency / entity on behalf of any vendor shall be summarily rejected. iii) Name, address, e-mail id, contact no.etc. of entity on whom order to be released in case of L1 shall be clearly indicated.			
3	Supplier to confirm / provide the following criteria / documents for evaluation of offer.			
	(a) The supplier should have the proven experience in manufacturing and supply of C.S. Tube Sheet Forging (hub type) for High Pressure Feed water heater in power plant application as mentioned below.			
	i) Material : SA 350 LF2 CL1 / SA 266 Gr.1-4 / SA-336 Confirming to ASME BPVC SEC-II PART-A. Materials supplied as per standards equivalent to above ASME Materials can be considered.However it is vendors responsibility to provide sufficient document evidence to prove the equivalent standard for ASME Materials. ii) Tube Sheet O.D : 1500mm minimum and above. iii) Tube Sheet Thickness : 350 mm (***excluding hub height***) minimum and above. iv) Application : High Pressure Feed water heater (HP Heater). v) Service : Thermal power plant/Nuclear power plant. vi) Satisfactory Working of equipment: The heater provided with this tube sheet should have undergone successful hydro test either at heater manufactures works or at site (Power plant)			
	vii) The supplier shall be original forge master.			
	All the above criteria 3(a) (i) to 3(a) (vii) must be combinedly met by the vendor against a single supply reference of tube sheet forging.			
	Supplier's having experience in other tube sheet materials, O.D., thickness, and application will not be treated as proven experience.			
	(b) The supplier meeting all the above criteria as 3 (a) (i) to 3 (a) (vii) shall furnish the following details in Annexure - 1. - Contact details of HP Heater Manufacturer (Name, e-mail ID, Mobile etc) - Date of Tubesheet supply (DDMMYY format) - Quantity, size - Date of Hydro Test of HP Heater - Power Plant Name - No of years equipment is in service at Power Plant. Or Heater Manufacturer's certificate (in English) containing the supply details as above both 3(a) & 3 (b), Contact details [E-Mail ID, Land line/Mobile No.] and complete address of Heater Manufacturer may be furnished. **Note** : Suppliers shall furnish maximum upto 6 number of latest customer reference details meeting the abive criteria as indicated above. **All the documents shall be furnished only in English. Documents furnished in other langauges will not be considered for further evaluation.**			
	(c) BHEL reserves the right to cross verify with the above such customers and satisfy itself with reference to the claims of the supplier. If the information furnished by the supplier is not found satisfactory / no response from customer, the offer will be technically rejected.			
4	Offers without the requirement as above 3(a) & 3(b) will not be technically evaluated by BHEL. Further, no correspondence in this matter will be entertained.			
5	The raw billets are to be sourced from reputed mills. The Tube sheet forging manufacturer shall furnish details of such mills along with manufacturing and testing facilities, size ranges and the customers to whom they are supplying. BHEL reviews the credentials of such supplier and may accept the proposal if it is satisfied technically. The decision of BHEL is final in this regard.			
6	The vendors should furnish the detailed process of manufacturing and testing procedures along with the offer.			
7	List of BHEL qualified bidders may be forwarded to BHEL's End Customer for their review and approval. The list finalized by BHEL's End Customer shall be final and binding.			
8	BHEL team may carry out vendor evaluation/assesment(incase of a new vendor)by a visit to vendor works for qualifying /rejecting the technical bid based on the findings of the visit.			
9	Vendors to submit their bid in 2- part system, i.e. Part-I shall consists of Pre-Qualification Criteria along with the required documnets and Techno-commercial bids and Part-II shall consists of Price Bid. Offers failing to meet prequalification part will not be considered for further evaluation.			

Annexure-1

High Pressure Feed water heater (HP Heater) Tube sheet Reference details

Ref project S.no	Material (SA 350 LF2 CL1 / SA 266 Gr.1-4 / SA-336)	OD mm	THK (min 350) mm	Supply date DDMMYYYY	HP Heater Application (Yes/No)	Heater manufacturer details			End customer details				
						Supplied to (Heater manufacturer's name)	Contact person	E-Mail id &Phone no	Name of the organisation(End user)	Project Details Name: MW Rating: Location	No.of years the equipment is in service	Contact person	E-Mail id&Phone no:
1													
2													
3													
4													
5													
6													

Note:

a) Reference list shall be submitted in the above format only.
Vendors are requested to fill the above and submit along with PreQualification Criteria(PQC).Details mentioned above only are considered for PQC evaluation.

b) wherever details are not available,vendor to mention as "NA"
Reference project Tube sheet shall be either of SA 350 LF2 CL1 / SA 266 Gr.1-4 / SA-336 confirming to ASME BPVC SEC-II PART-A.
Materials supplied as per standards equivalent to the said ASME Materials can be considered.However it is vendors responsibility to provide sufficient document evidence to prove

c) the equivalent standard for ASME Materials. Other materials shall be considered as INVALID Reference.

d) Reference project Tube sheet OD shall be of 1500 mm(Minimum).

e) Reference project Tube sheet thickness shall be 350 mm (Excluding hub) minimum. Tube sheet thickness less than 350 mm shall be considered as INVALID Reference.

f) Clause no 3(a) (i) to 3(a) (vii) of PQC must be combinedly met by the vendor against a single supply reference of Tube sheet. Maximum of 06 such reference shall be mentioned in the above table.

vendor's signature with seal