

| <u>PRE-QUALIFICATION REQUIREMENT</u> | | | | |
|---|--|------------------------------|-------------------------|----------------|
| MACHINING OF COMPOSITE GRAPHITE PLATES | | | | |
| 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 requirement and furnish required information along with offer. | | | |
| 2 | Vendor should have the facilities for executing the job in his premises only.Vendor should not outsource the job or part of its operations to other parties. | | | |
| 3 | Supplier to confirm/provide the following criteria/documents for evaluation of offer. | | | |
| | (a) Vendor shall collect blank graphite plate for machining after submission of offer.Vendor is required to submit the CNC machined sample graphite plate for item#1 or 2 within 10 days from the date of issue of BHEL HPEP sample graphite plate. The same will be considered for technical evaluation. | | | |
| | (b) Vendor should have experiece in achieving presicion tolerancing in formation of grooves (Depth) with base dimesion of minimum 0.3 mm with tolerances 30 microns. Grooves depth & width should be uniform throughout the length. There should not be any cutter marks in the flow paths (Surface Roughness Ra shall be < 3.2) .Dimensional reports shall be submitted as a proof. | | | |
| | (c) Vendor should have experience in machining of GRAPHITE PLATES. Particulars of experience / credentials of the orders which are executed of similar nature (Unpriced PO copies, Quality plans, test reports, dimesional reports of the orders) to be enclosed for reference. | | | |
| | (d) Vendor should confirm complete compliance to BHEL drawings as mentioned below: ANODE BIPOLAR PLATE - 35601501007-01 Qty-148Nos. CATHODE BIPOLAR PLATE - 35601501008-01 Qty-148 Nos. COOLING HALF BIPOLAR PLATE -35601501006-01 Qty- 4Nos. If any deviation with respect to drawing, vendor has to provide the deviation list for review. However, BHEL reserves the right to reject the bidder's offer in case of non-compliance to BHEL drawings. | | | |
| | (e) Blank graphite plates 350 mm X 250 mm X 2.8 mm thick of 300 numbers shall be supplied by BHEL.Vendor has to do machining as per BHEL requirement. 1. ANODE BIPOLAR PLATE as per Drawing 35601501007 (SERPENTINE PLATE - ANODE SIDE & LIQUID cooling on Back side) 2.CATHODE BIPOLAR PLATE as per Drawing 35601501008 (INTERDIGITATE PLATE - CATHODE SIDE & LIQUID cooling on Back side) 3. COOLING HALF BIPOLAR PLATE as per drawing 35601501006 (LIQUID COOLING on one side & No machining on another side) | | | |
| | (f) Interested vendors may request for detailed drawings to the following address.Vendors are required to submit the signed copy of NDA form prior to issue of BHEL drawings. Name: B Sri Naveen Email: srinaveen@bhel.in Tel: 04023183088 Cell: +91-9866528065 | | | |
| | (g) Time duration for supply of machined plates Maximum duration of 15 days is given to the vendor for supply of the CNC machined plates of 50 no's (batch) from the date of issue after awardal of contract. | | | |
| | (h) Inspection of machined graphite plates at BHEL RC Puram Vendor has to inspect 100% quantity at thier works Random sample inspection of 2 plates in a batch would be carried out at BHEL RC Puram as per the drawing details to qualify the batch of 50 Nos. In case of any deviations observed during inspection criteria, full batch would be evaluated at BHEL RC puram to identify the number of defect machined plates. Allowable damaged plates - 2 % of quanity for each variant | | | |
| | (i) Bidder to ensure that after placement of purchase order items should not have variance compared to sample pieces. BHEL reserves the right to reject the items in case the items properties varies with respect to Sample piece. | | | |
| | (j)The following documents shall be submitted along with offer. 1. List of manufacturing & test facilities 2. Manufacturing Process Plan (MPP) 3. Manufacturing Quality plan | | | |
| | (k)The offers of the bidders who are on the banned list and also the offer of the bidders, who engage the services of the banned firm shall be rejected. The list of banned firms is available on BHEL website "www.bhel.com". | | | |
| 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 | 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. | | | |