



BHARAT HEAVY ELECTRICALS LIMITED
HEEP HARIDWAR INDIA-PIN 249403
FAX NO: 0091 1334 226462
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Enq. No.: T/3991/2015/5644K/1

Date of issue : 29.02.2016

M/S.....

Sub: BHEL-HEEP/OPEN-TENDER (COMPONENT)/2015

Dear Sir,

The Heavy Electricals Equipment Plant (HEEP) located in Haridwar, India is one of the major manufacturing plants of Bharat Heavy Electricals Ltd. The core business of HEEP includes design and manufacture of large steam and gas turbines, turbo generators and so on.

Sealed tenders with the Tender No. and opening date clearly super scribed on the cover are invited from the manufacturers (registered as well as unregistered) for the supply of the following items:-

Sl. No.	Tender No.	Description of Item	Qty	Opening Date
1	T/3991/2015/5644K/1	HW7799981415 COOLANT LUBRICANT FOR STEAM TURBINE BLADE MACHINING IN CNC 5 AXIS MILLING MACHINES & HMC FOR X5, X10, X12, X19, X20, X22 MATERIALS AS PER ATTACHED SPECIFICATION NBS/15-16/COOLANT/OT/02.	5000 Lt	23.03.2016

The details with required delivery are given in **Annexure-1**.

The tender documents can be downloaded from our web site www.bhel.com or www.bhelhwr.co.in or www.tenders.gov.in; after downloading the tender documents from web site, while submitting tender as detailed in "Instruction to Bidders" intending vendors must be remit **EMD of Rs.40, 000/- by demand draft or pay order only against this tender. Tender fees shall be nil in this tender.** As per notification reference no. NSIC/HO/GP/15(4)/2013-14 dated 07.07.2013 Micro & Small Enterprises (MSEs) is not required to submit tender fees and/or EMDs. A certificate issued from competent authority shall be submitted in support of Micro & Small Enterprises (MSEs). BHEL will not be responsible for any type of postal delay / incomplete information from vendor.

The date for opening of tender shall be 23.03.2016. Tenders will be received up to 1.45 P.M. on **23.03.2016** and opened on the same day at 2.00 P.M. in the Tender Room. **Please note that tender received after due date & time (1.45PM on 23.03.2016) will not be REPEAT will not be opened.** BHEL will not be responsible for any type of postal / courier delay.

Specifications & Drawing of the above items are available on our above mentioned website. Other cross referred documents can either be physically collected from BHEL, Haridwar or can be obtained by email sanjeev.k@bhelhwr.co.in against proof of draft of the tender fee in favor of BHEL, Haridwar. This draft is to be submitted along with offer. Amendments/Corrigendum, if any, will be hosted on our web site only. Other terms and conditions will be as per tender documents.

Request for extension in tender opening date shall only be considered against proof of tender fees submission.

The total quantity may undergo change at the time of ordering.

Any vendor who is under suspension at the time of price bid opening, their price bid shall not be opened.

Please submit your Techno-Commercial offer only for the above requirement subject to our terms and conditions.

BIDS shall be opened at 2 PM on the due date in the presence of authorized representative of the bidders who may like to be present. The authorized representative should bring authority letter from their parent company (Manufacturer) for the specific tender no. attending the bid opening.

BHEL will forfeit the EMD if, the successful bidder / vendor refuses to honor the order after award of the same on him and / or withdraws his bid and / or unilaterally changes the offer and / or any of its terms & conditions within the validity period.

KINDLY READ "INSTRUCTIONS TO BIDDERS." QUOTATION NOT IN ACCORDANCE WITH THE INSTRUCTIONS ARE LIABLE TO BE DISQUALIFIED AND IGNORED.

INSTRUCTIONS TO BIDDERS FOR OPEN TENDER

1.0 DEFINITION

Registered Vendors - Are those who are registered with BHEL, Haridwar for Megawatt rating/ Size/ Weight of tendered components in respective steel grade or machining of such components.

Un-registered Vendors - Are those who are not registered with BHEL, Haridwar for Megawatt rating/ Size/ Weight of tendered components in respective steel grade or machining of such components.

2.0 TECHNICAL QUALIFICATION

- Enclosed format – Annexure-2 to be submitted. It is the mandatory requirement. **Offer of Vendors not meeting these requirements may not be considered.**

3.0 ESSENTIAL INSTRUCTIONS

1. All un-registered vendors shall be approved by BHEL, if found suitable, on the basis of data furnished by them in Supplier Registration Form (SRF) Foreign Vendors or Indigenous Vendors. Vendor (s) shall not be considered for ordering if not approved by BHEL.
2. BHEL team may visit the vendor (s) works for verification of capability and capacity claimed in tender documents/offer (s).
3. The tenders shall be submitted in two parts as described below on or before the due date. Vendor Registration Form shall be submitted by unregistered vendors only.
 - i. Part I (Envelop I) – A. EMD & / or Tender Fee
or
Valid certificate towards exemption of tender fee & /or EMD, applicable for Micro and small Enterprises, as mentioned below:
MSE Suppliers can avail the intended benefits only if they submit along with the offer, attested copies of either EM II certificate having deemed validity (five years from the date of issue of acknowledgement in EM II) or valid NSIC certificate or EM II certificate along with attested copy of a CA certificate (format enclosed where deemed validity of EM II certificate of five years has expired) applicable for the relevant financial year (latest audited). Date to be reckoned for determining the deemed validity will be the date of bid opening (Part I in case of two part bid). Non submission of such documents will lead to disqualification of their offer. Documents should be notarized or attested by a Gazetted Officer.

B. Pre-Qualifying Requirement (PQR) – refer Annexure – 2.

C. Vendor Registration Form (SRF documents to be placed separately in part-I and not to be mixed with other documents).

D. Techno -Commercial Bid
 - ii. Part II (Envelop II) - Price Bid
4. The Quotation should be from the Principal / Original Manufacturer, failing which the quotation is likely to be ignored. However, if OEM / Principal insist on engaging the services of an agent, such agent shall not be allowed to represent more than one manufacturer / supplier in the same tender. Moreover, either the agent could bid on behalf of the manufacturer / supplier or the manufacturer / supplier could bid directly but not both. In case bids are received from both, the manufacturer / supplier and the agent, bid received from the agent shall be ignored. In Case the quotation is submitted through agent, the quotation must accompany original authorization letter from the Principal / Original Manufacturer.
5. **The bidders will have to submit ink-signed offer / bid in original directly to BHEL. Each and Every Page of offer must be duly signed and stamped. Unsigned bids shall be ignored.**
6. The suppliers or their authorized person may be allowed to attend the tender opening, if duly authorized by their principals, through a specific letter for a particular enquiry or for specific price bid opening on that particular day. General authorization letter is not acceptable
7. Any corrections / amendments shall be properly & fully authenticated with signature. No overwriting is acceptable.

8. Compliance of technical/ commercial terms and conditions as per Annexure-3
9. Part-I will be opened on the date and time specified in the tender notice in the presence of those vendors who wish to attend.
10. Part-II (Price Bids) along with supplementary price bids, if necessary, will be opened at a later date of only those bidders who successfully qualify the PQR requirements, their techno commercial bid has been found acceptable and have submitted tender fees or valid certificate towards exemption of tender fee, applicable for Micro and small Enterprises.
11. Vendor to quote best possible deliveries in the offer. Offers of those vendors may not be considered if it is not found suitable to BHEL requirement.
12. Currency exchange rate will be applicable on the date of opening of Part-I for evaluation purpose.
13. Depending upon the delivery suitability, BHEL reserves the right to split order on more than one vendor.
14. Evaluation of Bid: - The bid shall be evaluated
 - a. Cost to BHEL basis. (Basic Cost + Insurance + Transportation + Duty)
 - b. The loading, if any, on account of LD penalty, payment terms or any other cost determined at later stage, which shall be communicated to the vendor.
15. Tenders when finalized shall be in the name of the bidder only and change of name during tender evaluation (without certificate from registrar of company) and after submission of the tender is liable to make the offer ineligible for participation.
16. All test certificates / Guarantee certificates to be submitted in TRIPLICATE along with dispatch documents.
17. BHEL reserves the right to open the price bid (part-II) along with the opening of techno-commercial offer at its option and in that case vendor will be informed accordingly.
18. BHEL reserves the right to go for reverse auction. Vendors are requested to give their best price. In case of failure of reverse auction the paper bid shall be processed. Bidder should clearly indicate their acceptance for reverse auctioning in Annexure-3. The bids of those vendors who do not agree for reverse auction may not be considered. The Terms & Condition for Reverse Auctioning are given below.
19. Total weight -- /Gross / Net in Kg. & also package size essentially should be indicated if not exact then approximate.
20. BHEL will evaluate the technical bids against essential criteria/requirements. BHEL may seek clarifications, if required, from the qualified bidders only. These clarifications will be communicated to the eligible vendors. The offers of those bidders, who are unable to respond in specified time frame, are likely to be ignored.
21. SETTLEMENT OF DISPUTES
 - Indigenous Vendors: In all cases of dispute the matter shall be referred for arbitration to any arbitrator to be appointed by the Executive Director or any officer who is the administrative head of Bharat Heavy Electricals Ltd., at Haridwar. The venue of arbitration shall invariably be Ranipur Haridwar. The award of the arbitrator shall be final and binding on both the parties. The arbitrator shall have the power to extend, from time to time, the time for making his award with the consent of the parties.
 - Foreign Vendors: In the event of any dispute or difference arising between the parties to this contract regarding execution of same or their respective rights and liabilities there under, the same shall except as otherwise expressly provided therein, be referred to the arbitration of the two arbitrators, one to be appointed by each party; or in the case of the said arbitrators not agreeing then an umpire to be appointed by the two arbitrators in writing before entering on that reference and provisions of the Indian Arbitration Act ,1940 or any statutory notification, or re-enactment therefore and rules framed there under from time to time shall apply to such arbitration . If the two arbitrators do not agree on the appointment of umpire, the nomination of the umpire shall be done by the International Chamber of Commerce, Paris(France).The decision of arbitrators, or in case of their not agreeing, that of the said umpire shall be binding both on seller and purchaser. The venue of the arbitration invariably be New Delhi.
22. JURISDICTION

All question, dispute or differences arising under, out of or in connection with the purchase order shall be subject to the exclusive jurisdiction of Haridwar courts.
23. OVER RIDING CLAUSE

All stipulations made in any correspondence other than those exchanged in regards to “instruction” in our tender documents / enquiry for submission of your offer, if at all shall be void to the extent they are repugnant to the conditions contained herein above and in the purchase order.
24. FINALITY OF MANAGEMENT DECISION

At all places in the preceding clauses BHEL Management’s decision shall be final.

4.0 GENERAL INSTRUCTIONS

PART-I (EMD &/or Tender fees (or exemption certificate), POR, SRF & Technical clarification in envelope - I) shall comprise of following documents:

- a. Tender fees/EMD or exemption certificate (to be provided in separate envelope).
- b. *Annexure-2 for Pre-qualification requirement. Point wise reply to all the points mentioned in Pre-Qualifying Requirement specified in the tender. Relevant documents as requested in Pre-Qualifying Requirement must be attached.*
- c. Vendor Registration Form (SRF)
(Kindly follow the link and follow instructions: <http://supplier.bhel.in/>)
The SRF duly filled up will be assessed for manufacturing capability quality systems being followed, organizational soundness and financial worthiness. The same shall be submitted with Part-I by un-registered vendor only with BHEL, HEEP, Haridwar or the proof of submission through online portal. BHEL registered vendors (registered with permanent code M, N, S) need not to submit SRF.
For vendors registered with T code, SRF is to be submitted essentially along with the offer.
- d. Non-disclosure agreement as per Annexure 6. The agreement shall be duly stamped & signed.
- e. Complete technical offer.
- f. Annexure-3 for compliance of technical/ commercial terms and conditions.
- g. Complete technical offer as per specification, drawings, technical requirement along with un-priced bid indicating CIF rate, separate Lloyd's/BV/TUV inspection charges (for Foreign vendors) and delivery schedule.
- h. Validity of offer to be indicated.
- i. Deviation with reference to specification/drawing, if any, should be clearly indicated on a separate sheet.
- j. Copy of price Bid (without prices).
- k. Any additional documents.

PART –II (Price Bid)

- a. Price bid with prices to be submitted as part-II of the tender.
- b. If price bid is not submitted along with Part-I bid, the offer will be rejected outrightly.
- c. In case of foreign vendors, prices to be quoted on CIF basis separately. In case of CIF, Loading port must be mentioned. However, for air shipment the rates to be quoted on CPT destination port basis. And air freight charges to be indicated separately in price bid. Further non-availability of flight will not be accepted for rescheduling the delivery or waiver of penalties on account of delayed delivery.
- d. In case of Indigenous vendor, prices must be quoted on FOR-Destination-CPS-HEEP-BHEL basis. However, the insurance will be arranged by BHEL. Vendor can dispatch good through any Indian Bank Association approved transporters having their branch at Haridwar / destination. For the convenience name and address of transporters approved by IBA and BHEL are posted at website www.bhelhwr.co.in. Further, non-availability of BHEL approved transporter will not be accepted for rescheduling of delivery or waiver of penalties.
- e. In case of foreign vendors, third party (Lloyd's/BV/TUV) inspection charges to be quoted separately as third party inspection (Lloyd's/BV/TUV) is in vendor's scope. For Indian vendors, inspection shall be by TUV/ BHEL nominated inspection agency. Prices shall be loaded by 0.18% on account of TUV/ BHEL nominated inspection agency inspection charges. Third Party inspection shall be in BHEL scope.
- f. Prices should remain firm till the execution of the order. However, in case vendor prefers to maintain their own PVC formula, they can do so. Vendors must give upper & lower cap. However, lower cap has to be either equal or more in percentage point than the upper cap from base prices. This is **must** for evaluation purpose. **Upper price limit** will be considered for evaluation purpose.
- g. Insurance during transportation shall be taken care of by BHEL.
- h. Applicable sales Tax, Excise duty, service tax, educational cess and any other statutory levy should be indicated separately and clearly in the quotation.
- i. **Prices are to be written in both Figures & Words. In case of any difference between the two, If there is a discrepancy between words and figures, the amount in words shall prevail for evaluation and establishing L1 status..**
- j. **LD Penalty shall be applicable at the rate of ½% (half percent) per week or part thereof subject to a maximum of 10% of the value of delayed portion of the order. In case of any variation in LD penalty acceptance, your prices shall be loaded to the extent LD penalty not accepted by you. If**

- k. Payment term shall be “100% payment against dispatch documents, through irrevocable LC (for foreign vendors) with bank charges as either side’ and 100% after receipt and acceptance of material (for indigenous vendors)”. **BHEL as a rule do not agree to release advance payment.**
- l. Irrevocable LC is opened for one quarter (3 months) & is established 30 days prior to delivery schedule. The charges of establishing the LC are on either side i.e. charges in India to be borne by BHEL and charges outside of India to be borne by vendor. If any vendor insists for LC for more than one quarter, vendor has to essentially bear all charges (Within & Outside India) for the period exceeding one quarter.
- m. **BHEL does not open confirmed LC even if vendor agrees to bear the confirmation charges.**
- n. **The comparison between foreign and indigenous bids shall be done based on the Total Landed cost at Destination basis.**
- o. **EMD given by all unsuccessful tenderers shall be refunded on acceptance of award/LOI/PO by successful Tenderer. The EMD of successful bidder shall be returned after submission of Contract Execution Bank Guarantee(CBG)**

Note:

After tender opening (Part-I), if it is found that:

- The bidder has not submitted the requisite Tender Fee and EMD (If applicable)
- The bidder has claimed to be an MSE vendor but no supporting documents have been submitted in this regard.

In both the above cases the offer of the bidder shall be straightaway rejected and no correspondence from the bidder in this regard shall be entertained.

However, offer of the bidder shall be treated as per the guideline in case the bidder has claimed to be an MSE vendor and submitted requisite MSE documents.

BHEL reserves the rights to place order for tendered quantity on more than one vendor

Superscription on envelopes:

The following shall be super scribed on the envelopes:

PART-I

1. TENDER NO. AND ITEMS DESCRIPTION
2. DUE DATE FOR OPENING.
3. TENDER FEE, EMD (IF APPLICABLE) OR MSE CERTIFICATE TOWARDS EXEMPTION OF EMD & TENDER FEE
4. PRE- QUALIFYING REQUIREMENT (PQR)
5. SUPPLIER REGISTRATION FORM (SRF)
6. TECHNO-COMMERCIAL BID.

PART- II

1. TENDER NO. AND ITEMS DESCRIPTION
2. DUE DATE FOR OPENING OF PART-I
3. PRICE BID

The part-I & part-II shall be individually sealed and super scribed as indicated above and shall be enclosed further in the envelop duly sealed and super scribed as :

“TENDER FOR (ITEM NAME) AGAINST TENDER NO.----- DUE ON -----
-----CONTAINING PART-I & PART-II OF THIS OFFER.” Vendor’s full name and address should be clearly mentioned on the envelope and shall be addressed to:

To,
Head of Materials Management,
Heavy Electrical Equipment Plant,
BHEL,
Hardwar- 249403

Envelopes not marked as above are liable to be ignored and will not be opened.

IN CASE YOU ARE NOT MAKING AN OFFER AGAINST THIS ENQUIRY, THEN PLEASE ARRANGE TO SEND A LETTER OF REGRET IF YOU HAVE COLLECTED THE TENDER DOCUMENTS FROM BHEL.

TERMS AND CONDITIONS OF REVERSE AUCTIONING

Against this enquiry for the subject item /system with detailed scope of supply as per enquiry specifications, BHEL may resort to “REVERSE AUCTION PROCEDURE” i.e., ON LINE BIDDING ON INTERNET.

- For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.
- BHEL will engage the services of a service provider who will provide all necessary training and assistance before commencement of on-line bidding on internet.
- BHEL will inform the vendor in writing in case of reverse auction, the details of Service Provider to enable them to contact & get trained.
- Business rules like event date, time, start price, bid decrement, extensions etc. also will be communicated through service provider for compliance.
- Vendors have to fax the Compliance form in the prescribed format (provided by Service provider) before start of Reverse auction. Without this, the vendor will not be eligible to participate in the event.
- BHEL will provide the calculation sheet (e.g., EXCEL sheet) which will help to arrive at “Total Cost to BHEL” like Packing & forwarding charges, Taxes and Duties, Freight charges, Insurance, Service Tax for Services and loading factors (for non-compliance to BHEL standard Commercial terms & conditions) for each of the vendor to enable them to fill-in the price and keep it ready for keying in during the Auction.
- Reverse auction will be conducted on scheduled date & time.
- At the end of Reverse Auction event, the lowest bidder value will be known on the network.
- The lowest bidder has to Fax the duly signed Filled-in prescribed format as provided on case-to-case basis to BHEL through Service provider within 24 hours of Auction without fail.
- Any variation between the on-line bid value and the signed document will be considered as sabotaging the tender process and will invite disqualification of vendor to conduct business with BHEL as per prevailing procedure.
- In case BHEL decides not to go for Reverse Auction procedure for this tender enquiry, the Price bids and price impacts, if any, already submitted and available with BHEL shall be opened as per BHEL’s standard practice.

Annexure- 1

Sl. No.	Tender No.	Description of Item	Delivery Required	Qty.
1	T/3991/2015/5644K/1	HW7799981415 COOLANT LUBRICANT FOR STEAM TURBINE BLADE MACHINING IN CNC 5 AXIS MILLING MACHINES & HMC FOR X5,X10, X12,X19,X20,X22 MATERIALS AS PER ATTACHED SPECIFICATION NBS/15-16/COOLANT/OT/02.	30.06.2016 20.08.2016 31.10.2016	1000 Lt 2000 Lt 2000 Lt

- **Vendor should quote best possible delivery dates.**
- **Early delivery is also acceptable.**

Annexure – 2

Special Instructions:

1. Test Certificate is required.
2. Guarantee Certificate is required.
3. Technical Specification cum Scope of Supply and Pre-Qualification Requirement (PQR) NBS/15-16/COOLANT/OT/2 is enclosed. Vendor to give point wise reply to each and every point of Technical Specification and offer accordingly.
4. Vendor to supply 200Ltr of offered coolant free of cost to BHEL for trial cum performance evaluation of offered item within 20 days from intimation from BHEL during technical scrutiny stage of offers (Refer to clause 6.1 of technical Specification).
5. Technical acceptance of offers shall be given after trial cum performance evaluation of 200 Ltr coolant submitted.
6. First Lot shall be supplied as delivery schedule.
7. Second and third Lot shall be supplied on intimation from BHEL based upon satisfactory continuous performance of coolant of first lot as per technical specification NBS/15-16/COOLANT/OT/2 enclosed.

Against vendor's replies, BHEL reserves the right to ask for more information/ documents/ clarifications. Vendor's offer shall not be considered if vendor fails to furnish the document / information / clarifications as mentioned above or doesn't meet the acceptance criteria.

Annex-2

REF NO: NBS/15-16/COOLANT/OT/02		Incident No.: 20155644	
BHARAT HEAVY ELECTRICAL LIMITED		Enquiry No. : Due Date :	
UNIT'S ADDRESS: HEEP, RANIPUR HARIDWAR - 249403 UTTARANCHAL, INDIA		Supplier Contact No.:	
SPECIFICATION CUM COMPLIANCE CERTIFICATE FOR COOLANT LUBRICANT (CUTTING FLUID) FOR STEAM TURBINE BLADE MILLING FROM X20, X22, X19, X12 & X10 MATERIALS IN CNC 5 AXIS and 4-AXIS MILLING MACHINES			
SCOPE SUPPLY OF COOLANT LUBRICANT (CUTTING FLUID) FOR STEAM TURBINE BLADE MILLING FROM X20, X22, X19, X12 & X10 MATERIALS IN CNC 5 AXIS & 4-AXIS MILLING MACHINES			
Sl. No.	DESCRIPTION OF BHEL REQUIREMENT		
1.0	PURPOSE		
1.1	Coolant lubricant (cutting fluid) is required for milling of turbine blade for X20Cr13, X22CrMoV12-1, X19CrMoNbVN11-1, X12CrMoWVNbNi10-1-1 & X10CrNiMoV12-2-2 materials in CNC 5 axis milling machines, Make: M/S Liechti (Model: TM 1200g, G-Mill 550 twins), M/S Starrag (HX 251, HX153 & SX 051) and CNC 4 axis milling machines, Make: M/S Huller Hille (Model: NBH 170, NBH 290) by using HSS tools & CBN/TIAlN coated solid carbide tools and carbide indexable inserts of various grades.		
2.0	PROPERTIES OF COOLANT:		
2.1	The coolant should be Mineral oil based, water miscible, high performance cutting fluid with very low foaming properties for general, heavy duty & high speed machining for the above mentioned materials for blade machining of length from 80 mm to 500 mm in single setting from bar stock / envelope forging. Thus the coolant should be stable at extreme machining conditions.		
2.2	Odor: It should have pleasant odour (e.g. Orange, Lime, Jasmine etc).		
2.3	The recommended concentration of coolant in the machine during use should not exceed 8 % v/v.		
2.4	Chlorine: The chlorine content should be less than or equal to 6%		
2.5	The pH value should be 8.5 to 9.6 at 5% V/V. (Refer DIN 51369)		
2.6	Heat conductivity should be greater than 0.45 kcal/m h °C at Normal Temperature & Pressure (NTP).		
	REQUIRED	OFFERED	DEVIATION
	vendor to note.		
	vendor to confirm & provide details.		
	vendor to confirm & submit the details		
	vendor to confirm & provide details.		
	Vendor to accept & confirm		
	vendor to confirm & provide details.		
	vendor to confirm & provide details.		

5

R.K. RAJAK
MANAGER, NBS-PEB

SANDIP CHAKRABORTY
E1, NBS-PEB

N.K. SINGLA
DGM, TBM- MPIC PEB

Annex. 2

Cl. No.	DESCRIPTION OF BHEL REQUIREMENT	REQUIRED	OFFERED	DEVIATION	REMARKS
2.7	No adhesive remainders of the coolant shall appear after operation inside the blade milling machine and on the machined component. The behaviour of adhesivity & remainder should be checked by VKIS-test sheet (Refer DIN 51385). No additives should be added within the life of emulsion.	vendor to confirm & provide certificate.			
2.8	Good emulsion ability and a high life time are required with normal tap water with hardness of 224-265 mg/L.	vendor to confirm & provide details.			
2.9	Flash Point of concentrate should be $\geq 130^{\circ}\text{C}$.	vendor to confirm & provide details.			
3.0	THE COOLANT SHOULD HAVE THE FOLLOWING FEATURES:				
3.1	Machining and Tool life: It should give the optimum tool life and good surface finish.	vendor to confirm & submit the details			
3.2	Sump Life : It should be minimum 12 months or more.	vendor to confirm & submit the details			
3.3	Cooling properties: It should have cooling properties to provide sufficient tool life and low fume generation.	vendor to confirm & submit the details			
3.4	Corrosion protection : It should have excellent anti-corrosion property (Refer DIN 51360). The coolant emulsion must not lead to any damages at the wet machine components (blank metal surfaces, protection paintings, elastomers etc.).	vendor to confirm & submit the details			
3.5	Low Foam generation: It should have low foam generation properties.	vendor to confirm & submit the details			
3.6	Good Separation of tramp oil: It should have a property to facilitate separation of tramp oil.	vendor to confirm & submit the details			
3.7	Micro-organism Formation: It should have high resistance against microorganisms such that no sludge / bacteria / fungus / foul smell etc. formation occurs in case of stagnation of coolant in the machine in air conditioned environment (temp. up to 25°C ., Humidity up to 75%) for minimum 96 Hrs.	vendor to confirm & submit the details			
3.8	Excellent Detergency: The coolant should have good detergency. The coolant should not reduce visibility by forming any opaque layer on the glass doors/ windows of machines as well as shall not cause any spots/ moss or remainders on internal parts of the machines.	vendor to confirm & submit the details			
3.9	Self Inflammability: Must not be Self Inflammable.	vendor to confirm & submit the details			
4.0	HEALTH & SAFETY :-				
4.1	The vendor has to submit the MSDS and PDS of offered coolant along with offer.	Vendor to accept & confirm			
4.2	User friendly: It should not have negative impact on human health and should not create itching problem to the human skin. Also the fumes generated during the machining must not be health hazardous.	vendor to confirm & submit the details			

3

22/05/2016

SANDIP CHAKRABORTY
E1, NBS-PEB

R.K. RAJAK
MANAGER, NBS-PEB

N.K. SINGLA
DGM, TBM-MPIC PEB

Annex: 2

Cl. No.	DESCRIPTION OF BHEL REQUIREMENT	REQUIRED	OFFERED	DEVIATION	REMARKS
4.3	The product must not contain any component reportable as a carcinogen under 29 CFR 1910.1200	vendor to confirm & submit the details			
5.0	OTHER GENERAL REQUIREMENTS:				
5.1	Vendor to provide service by deputing their representative on daily basis at New blade shop, BHEL, Haridwar to check, maintain and monitor the status of coolant (for performance, concentration, cleaning of tramp/hydraulic oil from coolant, clean & fill the machine coolant tank, top up requirements etc.) till the ordered quantity is consumed without any financial implication to BHEL. Hardwar. The procured quantity will be used continuously till stocks end.	vendor to accept.			
6.0	TRIAL FOR FINAL ACCEPTANCE & PHYSICAL VERIFICATION:				
6.1	The vendors who will comply the PQR (Clause no. 7.1 to 7.10) and Clause nos. 1.1 to 5.1 of Specifications, shall supply 200 litres of offered coolant free of cost to BHEL, Haridwar for trial purpose within 20 days from first intimation from BHEL. Coolant from qualified vendors will be tried on the machines mentioned at clause number 1.1 at shop and final technical clearance will be given within 2 months or earlier on the basis of satisfactory performance of the coolant on various machines. Satisfactory performance of coolant shall be subjected to acceptance of criteria mentioned in clause no.- 2.1 to clause no.- 4.3 of Specification.				
7.0	PRE-QUALIFYING REQUIREMENTS :				
7.1	Only coolant manufacturers can quote who is supplying coolant for previous one year or more (from the date of opening of the tender) for milling of turbine blades in CNC 5 (or more) axis machining centre from any of the following materials: X20Cr13, X22CrMoV12-1, X19CrMoNbVN11-1, X12CrMoWVNbN10-1-1 & X10CrNiMoV12-2-2, X5CrNiCuNb 16-4.	Vendor to submit			
7.2	List of the customers / companies where referred coolant have been supplied / established is to be submitted.	Vendor to submit			
7.3	Name of customer / company where coolant has been established along with their Purchase Order copy. Offer without this document shall be rejected. However in the submitted PO copy, offered price may be concealed by suitable means.	Vendor to submit			
7.4	Name, designation & contact details (Phone, FAX no., email Postal address, etc) of the contact person of any one customer / company mentioned in clause 7.3.	Vendor to submit			
7.5	Performance certificate from the customers regarding successful establishment of coolant (Original Certificate or Through E-mail directly from the customer). The original performance certificate may be returned after verification by BHEL, if required. Offer without this certificate shall be rejected. The customer, issuing the performance certificate must be a reputed manufacturer of turbine blades in CNC 5 axis milling machines. The performance certificate must contain comments categorically from the customer on odour, sump life & performance of coolant.	Vendor to submit			
7.6	Recommendation from any Technical center or Lab is not acceptable.	Vendor to accept			
7.7	BHEL may depute person(s) to verify the performance of the coolant of referred company, from which performance certificate is given, if required. Vendor will have to arrange the visit of BHEL personnel to the referred company. However fare, boarding & lodging for the representative(s) shall be borne by BHEL. In case vendor fails to arrange the visit, it will be treated as non compliance and offer shall be rejected.	Vendor to confirm			

[Signature]

Rajeev 27/11/16

SANDIP CHAKRABORTY
E1, NBS-PEB

R.K. RAJAK
MANAGER, NBS-PEB

N.K. SINGLA
DGM, TBM- MPCIC PEB

[Signature]

Annex. 2

Cl. No.	DESCRIPTION OF BHEL REQUIREMENT	REQUIRED	OFFERED	DEVIATION	REMARKS
7.8	The offered coolant manufacturer should be ISO 9001:2008 certified for coolant lubricants copy of valid certificate should be submitted along with the offer at the time of opening the tender. Offer without this certificate shall be rejected.	Vendor to submit			
7.9	Test report of offered coolant from National Chemical Laboratory or other NABL accredited laboratory for chemical and physical properties shall be submitted by vendor for confirmation of oil & other content. Test report must contain information on the followings: Mineral oil content, Specific gravity, pH value, Flash point, Chlorine content, Heat conductivity and other physical and chemical properties.	Vendor to submit			
7.10	BHEL reserves the right to verify the information provided by vendor. In case the information provided by vendor is found to be false/ incorrect, the offer shall be rejected	Vendor to accept & confirm			

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SANDIP CHAKRABORTY
E1, NBS-PEB

[Handwritten signature]
27/1/16

R.K. RAJAK
MANAGER, NBS-PEB

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[Handwritten signature]

N.K. SINGLA
DGM, TBM-MPIC PEB

ANNEXURE- 3

COMPLIANCE SHEET FOR TECHNICAL/COMMERCIAL TERMS AND CONDITIONS FOR THREE PART TENDER

PLEASE FILL THIS ANNEXURE & ATTACH WITH YOUR TECHNO-COMMERCIAL BID.

You are requested to kindly confirm /clarify the following:-

S.No.	Description	Your Confirmation
1.	Vendor to confirm that they meet each & every clause of our Specifications/Drawings.	
2.	If “No” to serial number 1, vendor to specify each deviated clause & submit in a separate sheet.	
3.	Vendor to list out on a separate sheet any activity which is outsourced. Please furnish details of out sourced vendor.	
4.	Validity: confirm that validity of the offer shall be 90 days from the date of tender opening	
5.	Confirm that un-priced part of price bid is enclosed with technical Commercial offer.	
6.	Confirm that prices have been quoted on CIF basis (For Foreign vendors)	
7.	Confirm that Loading Port has been mentioned.	
8.	Confirm that prices have been quoted on FOR BHEL Haridwar basis. (For Indigenous vendor)	
9.	Confirm that prices shall be firm and fixed throughout delivery period.	
10.	Confirm that payment term shall be “100% payment against receipt & acceptance of material in BHEL Haridwar (for Indigenous vendor) and “100% payment against dispatch documents through irrevocable LC & Bank charges shall be either side” (for foreign vendor).	
11.	LD Penalty shall be applicable at the rate of ½ % (half percent) per week or part thereof subject to a maximum of 10% of the value of unexecuted portion of the order. In case of any variation in LD penalty, your prices shall be loaded to the extend LD penalty not accepted by you.	
12.	Confirm that all test certificates / Guarantee certificates to be submitted as per BHEL specification. in TRIPLICATE along with dispatch documents	
13.	Right of acceptance – BHEL reserves the right to reject any or all quotations without assigning any reasons thereof. BHEL also reserves the right to increase or decrease the tendered quantities. Vendors should be prepared to accept order for reduced quantities without any extra charges. Vendor should also be prepared for giving discount in case of Increase in quantity.	
14.	Confirm specifically that material shall be supplied as per tender documents.	
15.	No grace period in delivery is acceptable. Please quote delivery accordingly.	
16.	Ink signed order acceptance shall be furnished within 15 days of order placement.	
17.	Confirm if there is Indian agency commission included in your price.	
18.	Kindly confirm ‘Testing & Certification as per ordering drawing’.	
19.	Please confirm your acceptance for Reverse Auctioning of these items.	
20.	In case of PO (if any), Invoices against goods and services have to be submitted immediately after supply of goods and services but not later than 30 days from the invoice date. In case of any delay, consequential losses like loss of input credit and non-availability of concessional forms etc., shall be to the vendor’s account (For Indigenous vendor). Kindly confirm.	
21.	‘In case of delays in supplies / defective supplies or nonfulfillment of any other terms and conditions given in Purchase Order the purchaser may cancel the Purchase Order in full or part thereof, and may also make the purchase of such material from elsewhere / alternative source at the risk and cost of the supplier.’. Kindly confirm.	