



BHARAT HEAVY ELECTRICALS LIMITED
HEEP HARIDWAR INDIA-PIN 249403
FAX NO: 0091 1334 226462, PHONE NO: 0091 1334 281561

Tender No.: T/3991/17/1059H/1

Date of Issue:12.09.2017

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.

We are looking for reputed vendors having capability to supply Media & Chemical for Vibro Finishing of Steam Turbine Blade at New Blade Shop as per Specifications/Documents provided as per Annexure-1

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:-

Tender No.	Description of Item	Last Date to Download	Opening Date
T/3991/17/1059H/1	HW7799980915 MEDIA 22X10 ACT DARK BROWN CERAMIC MEDIA SIZE: 22X22X10 DIM.: LXWXT IN MM	04.10.2017	05.10.2017
	HW7799980931 MEDIA 17.5X11X22 EAC DARK BROWN CERAMIC MEDIA SIZE: LXWXT IN MM		
	HW7799981083 CHEMICAL FOR BLADE SURFACE REFINEMENT FS-AADP OF M/S FINSOL		
	W7799981091 CHEMICAL FOR BURNISHING PROCESS FS-BPP OF M/S FINSOL		

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, the tender is required to be submitted as per detailed in **"Instruction to Bidders"**.

The date for opening of tender shall be 05.10.2017. Tenders will be received up to **1.45 P.M. on 05.10.2017** and opened on the same day at **2.00 P.M. in the Tender Room.** **Please note that tender received after due date & time (1.45 PM on 05.10.2017) 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 websites. Other cross referred documents can either be physically collected from BHEL, Haridwar or can be obtained by email sanjeev-k@bhelhwr.co.in, vinodkm@bhelhwr.co.in. Amendments/Corrigendum, if any, will be hosted on our web site only. Other terms and conditions will be as per tender documents.

The offer of vendor who are Delisted/Under Hold by BHEL, shall not be considered till the period of their Delist/Hold. 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.

Documents submitted with the offer/bid by the bidder (original supplier) shall be signed and stamped in each page by authorized representative of the bidder. Documents not signed and stamped in each page by the authorized signatory of the bidder, shall neither be accepted nor considered for evaluation of the bid.

Please submit your technical offer only for above requirement subject to our terms and conditions. No price Bid is to be submitted along with this offer.

The authorized representative should bring authority letter from their parent company (Manufacturer) for the specific tender no. attending the bid opening.

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

Technical Eligibility and Pre-Qualification requirement/criteria are enclosed (Annexure-1). The offers are invited from suppliers having technical capability to supply Media & Chemical for Vibro Finishing of Steam Turbine Blade as per enclosed tender documents and PQR. The offers received will be technically evaluated by BHEL and short listed vendors will be asked to submit their detailed techno-commercial offers through formal NIT/Enquiry, for our future requirement.

Only technical bid along with documents in support of PQR are to be submitted at this stage. No price bids are to be submitted along with this offer.

The technical bid submitted by you should comprise of the following documents:

1. Annexure-1 for technical requirement cum PQR. Point wise reply to all points mentioned in Technical requirement cum PQR specified in the tender. Relevant documents as requested in Technical requirement cum PQR must be attached.
2. The item description mentioned in tender documents are for reference only. Vendor to offer their equivalent or better Media & Chemical for Vibro Finishing of ST Blade.
3. 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.
4. Non-disclosure agreements as per annexure-2. The agreement must duly stamped and inked signed.

The following shall be superscripted on the envelope:

1. Tender No. and its item Description
2. Due date of Opening
3. Vendors Full Name and Address

The envelope shall be addressed to

TO,

Head of Material Management

Heavy Electrical Management

BHEL Haridwar-249403

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

1. The Quotation should be from the Principal/Original Manufacture 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 manufacture /supplier in the same tender. Moreover either the agent could bid on behalf of manufacturer/supplier or the manufacturer / supplier could bid directly but not both. In case bids are received from both, the manufacture/supplier and agent, the bid received from agent shall be ignored. In case the quotation is submitted through agent, the quotation must accompany original authorization letter from the principal / original manufacture.
2. **Documents submitted with the offer/bid by the bidder (original supplier) shall be signed and stamped in each page by authorized representative of the bidder.** Documents not signed and stamped in each page by the authorized signatory of the bidder, shall neither be accepted nor considered for evaluation of the bid.
3. Any correction /amendment shall be properly & fully authenticated with signature. No overwriting is acceptable.

REF NO: VIB/CONSUMABLES/EOI/17-18/01.

TECHNICAL REQUIREMENT FOR VIBRO MEDIA AND CHEMICAL FOR SUPERFINISHING OF STEAM TURBINE BLADES

	BHEL REQUIREMENT	REQUIRED	OFFERED	DEVIATION	REMARKS
1.0	Suitable ceramic media & chemicals are required to polish steam turbine blades made of high temperature and creep resistant hot rolled alloy steel in material grades X22CrMoV12-1, X20Cr13, X19CrMoVNbN11-1, X12CrMoVWNbN10-1-1 having tensile strength up to 1050 N/MM2 and hardness up to 335 BHN. Surface Roughness to be achieved : Ra 0.40 microns in both axial and radial directions or better from (Ra) 1.6 - 2.5 microns achieved from 5 axis milling . The polishing / super finishing will be done by vibro-abrasion between turbine blade and suitable chips in an acidic medium followed by cleaning in a neutralizing medium. Accordingly vendor shall offer following items equivalent to items listed in indent. The item details in indent are for reference only and vendor to quote only equivalent or better items as per their capability: A) 2 numbers of ceramic media for vibro abrasion B) 1 number of chemical powder / liquid for de-burring C) 1 number of chemical powder/ liquid for polishing. Vendor shall necessarily submit details of offered products with ordering codes, geometry, specification and other technical details. Vendor shall mention the source of the items (indigenous/ imported) and submit detail of manufacturing facility. Vendor may visit BHEL, Haridwar works for technical discussions.	Vendor to accept.			
2.0		Vendor to accept and submit details with offer.			
3.0	VIBRATORY MACHINE TO BE USED:				
3.01	Offered items should be compatible with following machine: Machine volume: 600 Litre with PU inner lining. Model: VB 625 RD-PU (7.5 HP motor, 1440 RPM) of M/s GALA Precision Engineering Pvt Ltd or Vibro machine (7.5 HP motor, 1440 RPM) of M/s SM systems Pvt Ltd. In the machines during operation, Angle between upper and lower eccentric weight : Lower weight set at 90 degree clock wise . Amplitude: 5 mm (approx.), phase angle : 50 to 60 degree.	Vendor to accept.			

 21/06/17
 E. N. S. - 8 E3
 Sandip Chakraborty

 21/06/17
 R.K. Rajak
 ES- NBS-PEB

 21/06/17

4.00	BATCH QUANTITY ESTIMATE:					
4.01	Vendor to refer drawing VIB/DWG/01 as attached and suggest estimated number of blades per batch for above machine and express the calculation in terms of dimensions: H, T, D as in attached drawing considering effective working volume of machine as 80% of total volume. Blade length shall vary from 100 mm to 500 mm. T and D varies from 10 mm to 80 mm approx..	Vendor to accept and submit details with offer.				
5.00	TECHNICAL REQUIREMENTS:					
5.01	Surface finish to be achieved in finish milled steam turbine blades in CNC 5 axis machines: Ra 0.4 or better in both axial and radial directions from input condition of 1.6-2.5 Ra.	Vendor to accept and submit details with offer.				
5.02	Time of running of machine per batch : Total Hrs. Approximately 7.5 Hrs. (As per BHEL existing process, Deburring : approx. 5.5 hrs. followed by 0.5 hrs. washing, then approx. 1 Hr. polishing followed by 0.5 hrs. washing) or less. Vibro finishing should achieve final desired results within this time. Vendor to offer their equivalent process times.	Vendor to accept and submit details with offer.				
5.03	The blades after vibro finishing, should not have any black spot, pitting or surface defect.	Vendor to accept and submit details with offer.				
5.04	The vibro finishing should be MAT finishing resulting bright appearance of the blades.	Vendor to accept and submit details with offer.				
5.05	There should not be any negative effect such as wearing of inner PU lining of the machine or other parts due to use of chemicals/ media.	Vendor to accept and submit details with offer.				
5.06	The offered products should meet safety standards and should not contain any hazardous chemical. No itching of skin or irritation due to inhalation of any product is allowed. No carcinogens, heavy / toxic metals / ions are acceptable in the offered products.	Vendor to accept and submit details with offer.				
5.07	Vendor to provide PDS and MSDS of the offered products.	Vendor to accept and submit details with offer.				
5.08	Vendor to submit test reports from Government approved laboratory for the followings on steam turbine blade sample as mentioned in clause 7.01: 1- Metallography 2- Microstructure 3- Visual Examination Through Stereo at 50X. 4- M.P.I. 5- Hardness	Vendor to accept and submit with offer.				
	Vendor to submit details of test piece (blade) before vibro finishing operation also.					

24/6/17

24/6/17

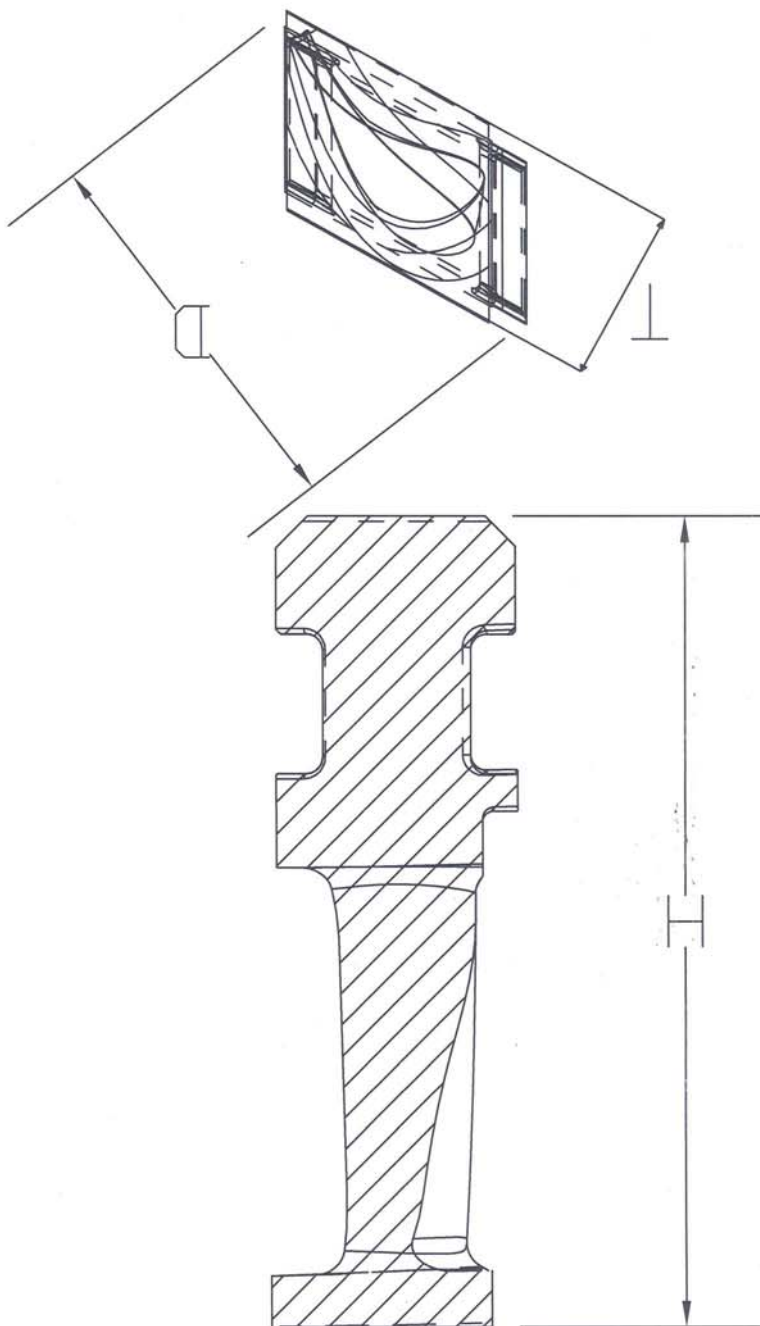
24/6/17

22/02/2022

2/10/17

VIB/DWG/01

24/06/17
Saudy Alkhalaf
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NON-DISCLOSURE AND PROPRIETARY INFORMATION AGREEMENT

BETWEEN

_____(Name of the Vendor),, having its registered offices in
_____(Address of Vendor), registered under the no. _____
of the Companies' register of _____(Name of Place and Country),
capital stock of _____(Value), with a place of business in
_____(Name of Place and Country) (hereinafter referred to as
"_____(Name of Vendor)");

AND

Bharat Heavy Electricals Ltd a company incorporated under the Indian Companies Act 1956 having its registered offices at BHEL House, Siri Fort, New Delhi -110 049 and having one of its works at Heavy Electrical Equipment Plant, Ranipur, Haridwar-249403 (Uttarakhand), India registered under the No. 4281 of 1964-65 of the companies register of Delhi, capital stock of Rs 4895.2 million with a place of registered office in New Delhi (hereinafter referred to as "BHEL") hereinafter also referred to individually as "the Party" or collectively as "the Parties".

BACKGROUND

This Agreement sets forth the rights and obligations of the Parties with respect to the use, handling, protection and safeguarding of Proprietary Information that is disclosed by and between the Parties.

WHEREAS

A) the Parties wish to pursue exploratory discussions concerning a possible collaboration between them in relation to the Program defined in Exhibit 1;

B) during the ensuing discussions and negotiations it may occur that either Party discloses to the other technical, financial or business information of a proprietary or confidential nature, which the Parties intend to protect against, making it available, by any means to any third person, and other unauthorized use and/or further disclosure by the recipient, in accordance with the terms and conditions set forth herein;

NOW, THEREFORE, the Parties have agreed as follows:

1. The term "Proprietary Information" shall mean any information or data of whatsoever kind of a confidential or proprietary nature, including but not limited to, commercial information, know how and technical information in the form of designs, drawings, concepts, requirements, specifications, software, interfaces, components, processes, or the like, that have been or will be disclosed by either Party to the other pursuant to this Agreement, either in writing, orally or other form, which is designated as "Proprietary" or "Confidential" by the disclosing Party by means of formal declaration or an appropriate stamp, legend or any other written or orally notice.
2. Proprietary Information may be conveyed, without limitation, through any written or printed documents, samples, models, electronic form on disk, tape, other storage media or any other means of disclosing such Proprietary Information that either Party may elect to use during the life of this Agreement, but if an originating Party originally discloses information orally or visually, the receiving Party will protect such information as Proprietary Information to the extent that the originating Party :
 - identifies the Information as Proprietary at the time of original disclosure,
 - summarizes the Proprietary Information in writing.

Information stored in electronic form on disk, tape, other storage media will be adequately marked if a proprietary legend displays when the information originally runs on a computer system and when the information is printed from its data file.

Proprietary Information also includes any information which can be obtained by examination, testing or analysis of any hardware or material substance or any component part of such hardware or material substance provided by the Disclosing Party even though the requirements in Clause 1 for marking and designation have not been fulfilled.

3. Each Party, to the extent of its rights to do so, shall disclose to the other only the Proprietary Information which the disclosing Party deems appropriate to fulfil the objectives of this Agreement. The Parties hereby represent that the disclosure of Proprietary Information by and between themselves shall be made in compliance with, and subject to the laws and regulations of the Disclosing Party's country.
4. The receiving Party hereby agrees and covenants that, from the effective date of this Agreement until the expiry date as per article 11 and the following period as per article 12, the Proprietary Information that either Party receives from the other shall:
 - a) be protected and kept in strict confidence by the receiving Party which must use the same degree of care it uses to protect its own confidential information and in no case less than a reasonable care;
 - b) be only disclosed to and used by those persons within the receiving Party's organization or that of its parent or controlled companies who have a need to know and solely for the purposes specified in this Agreement, and be treated by such persons or entities with the same degree of care and subject to the same restrictions;
 - c) to procure that each third party to whom Proprietary Information is disclosed under this Agreement is made aware of the provisions of this Agreement prior to such disclosure to it and that each such third party is

bound by obligations of confidentiality which are no less onerous than those contained in this Agreement;

- d) neither be disclosed nor caused to be disclosed or made available, either directly or indirectly, to any third Party or persons other than those mentioned in subparagraph b) above or other persons upon which both of the contractual Parties shall agree in an amendment to this Agreement;
- e) not to copy, reproduce or reduce to writing any part of such Proprietary Information except as may be reasonably necessary for the purpose referred to in the Recitals of this Agreement

PROVIDED THAT the Receiving Party shall be entitled to make any disclosure required by court order or government or regulatory requirement of the Disclosing Party's Proprietary Information subject to notifying the Disclosing Party as soon as possible of such requirement

- 5. Any Proprietary Information and copies thereof disclosed by either Party to the other shall remain the property of the disclosing Party and shall be immediately returned or destroyed by the receiving Party upon request.
- 6. The receiving Party shall have no obligations or restrictions with respect to any Proprietary Information for which the receiving Party can prove that:
 - a) is in or which comes into the public domain otherwise than as a result of a breach of this Agreement by any person to whom a disclosure of Proprietary Information is made as permitted under this Agreement or of any other duty of confidentiality relating to the Proprietary Information of which the Receiving Party has knowledge; or
 - b) it has been in its possession without restriction at the time of the disclosure, as evidenced by written documentation in its files; or
 - c) it has been lawfully received from a third Party without breach of this Agreement; or

(14)

- d) it has been or is published without violation of this Agreement; or
 - e) it has been independently developed in good faith by employees of the receiving Party who did not have access to the Proprietary Information; or
 - f) it has not been properly declared, designated or confirmed as Proprietary or Confidential; or
 - g) the protection period has expired according to articles 11 and 12 of this Agreement.
7. With respect to any exchange of Proprietary Information which may occur as a result of this Agreement, it is expressly understood and agreed that the persons listed in Exhibit 2 shall, on behalf of the respective Parties, be the exclusive individuals authorized to receive from and transmit to the other Party Proprietary Information under this Agreement. Each Party may replace at any time its respective authorized individuals identified in such Exhibit 2, within its own organization. Any such new designation by a Party shall be made by written notice to the other at the address indicated in such Exhibit 2.
8. Any Proprietary Information which is identified as "Classified Information", or whose export is subject to an export license, shall be identified as such by the disclosing Party at the time of disclosure and the disclosure, protection, use and handling thereof, shall remain subject to the security procedures and restrictions imposed by the disclosing Party's Government.
9. The disclosure of Proprietary Information under this Agreement by either Party to the other shall not be construed as granting to the receiving Party any right, whether express or implied by licence or otherwise, on the matters, inventions or discoveries to which such information pertains, or as granting any trademark, patents, copyrights, trade secret right or other form of intellectual property right.

10. Nothing in this Agreement may be construed as an obligation of either Party to disclose any Proprietary Information to the other, or to enter into any subsequent contractual relationship with such other Party.
11. This Agreement covers the exchange of Proprietary Information which may be made by either Party to the other until ten years from signing of the agreement or any extension thereto which may be agreed upon by the Parties in writing. Proprietary information relevant to the Program detailed in Exhibit 1, already made available to the other contractual Party before the effective date, shall also be protected under this Agreement.

It is understood by the parties that, prior to disclosure, the Disclosing Party shall have obtained any government authorisation needed for the export of the Proprietary Information
12. The expiry of the period contemplated in Article 11 of this Agreement shall not relieve the receiving Party from complying with the obligations imposed by Article 4 here above with respect to the use and protection of the Proprietary Information, received prior the date of such expiry, for a period of ten (10) years after such expiry.
13. The Parties are independent contractors. Each will bear all costs and expenses in connection with this Agreement. This Agreement is intended to facilitate only the exchange of Proprietary Information and is not intended to be, and shall not be construed to create a teaming agreement, joint venture, association, partnership, or other business organisation or agency arrangement and no Party shall have the authority to bind the other without the other Party's separate prior written agreement.
14. This Agreement shall be governed by and shall be interpreted in accordance with the substantive Indian laws. Irrespective of the foregoing each Party shall remain

bound by the provisions of its own national laws and regulations with respect to the transfer or use of Classified Information or information whose export is subject to an export license.

15. All disputes among the Parties, in connection with or arising out of the existence, validity, construction, performance and termination of this Agreement (or any terms thereof), which the Parties are unable to resolve among themselves, shall be finally settled by an Arbitration. The Arbitration shall be held in Haridwar (India), in English language, in accordance with the rules laid down in the arbitration and reconciliation act of India.
16. The foregoing constitutes the entire Agreement among the Parties with respect to the subject matter hereof and supersedes and cancels all prior representations, negotiations, commitments, undertakings, communications, either oral or written, acceptances, understandings and agreements among the Parties with respect to or in connection with any of the matters to which such Agreement applies or refers.
17. Notices to _____ (Name of Vendor) shall be made at the following address:

(Complete Address of Vendor)

Attention: Mr. _____ (Name of the Authorised Person of Vendor)

Notices to BHEL shall be made at the following address:

BHARAT HEAVY ELECTRICALS LIMITED,
HEAVY ELECTRICAL EQUIPMENT PLANT,
Ranipur, Haridwar-249403 (Uttarakhand), India

Attention: _____ (Name of the PPX Incharge)

18. The effective date of this Agreement shall be the date of the last signature appearing herein.

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IN WITNESS WHEREOF, each of the Parties has caused this Agreement, to be executed by its duly authorized officer.

Date :

Signed for and on behalf of

Signed for and on behalf of

(Name of Vendor)

BHEL

By:

By:

Title:

Title:

Signature:

Signature:



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EXHIBIT 1

to the

NON-DISCLOSURE AGREEMENT

between

_____**(Name of Vendor)**

and

BHARAT HEAVY ELECTRICALS LIMITED

dated:

The Non Disclosure Agreement covers the exchange of Proprietary Information which may occur during the discussions and negotiations in view of a possible cooperation between the Parties in the following programs:

-Description of Material or Services for which the order is placed

_____**(Name of Vendor)** list of products that require an exchange of Proprietary Information which may be occur during the discussions and negotiations in view of a possible cooperation for the above programs :

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EXHIBIT 2

to the
NON-DISCLOSURE AGREEMENT

between

_____ (Name of Vendor)

and

Bharat Heavy Electricals Ltd.

dated:

Personnel of the Parties authorized to receive and/or transmit Proprietary Information
under this Agreement:

For (Name of Vendor)

(Name of Person)

Tel.

Fax

Address.

Tel.

Fax

Address

For Bharat Heavy Electricals Ltd.

Mr.

Tel. 01334

Fax 01334

Address. Main Administration Building

BHEL, HEEP, Haridwar

India

Mr.

Tel. 01334

Fax 01334

Address. Main Administration Building

BHEL, HEEP, Haridwar

India