



BHARAT HEAVY ELECTRICALS LIMITED
HEEP HARIDWAR INDIA-PIN 249403
FAX NO: 0091 1334 226462/223948
PHONE NO: 0091 1334 284144

Tender No.: F/F219/6/3553/K1

Due Date: 16.11.2016

Sub: BHEL-HEEP/OPEN-TENDER (Tool Steel Plates/Flats as per Grade T90MN6WCR2-A)

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 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:-

Tender No.	Item Description	Mat. Code	Size (mm)	Qty. (Kg)
F/F219/6/3553K/1	Tool Steel Plates/Flats as per Grade T90MN6WCR2-A and Spec. HW10892 Rev: 02	HW1080392149	4x300x400	600
		HW1080392114	6x400x400	600
		HW1080392130	8x400x400	600

The tender documents & Specification of item can be down loaded from our web site www.bhel.com or www.bhelhwr.co.in or www.tenders.gov.in. **Only those vendors who fulfill the Minimum Qualifying Requirements (as per Annexure-II) will be considered for further technical evaluation.**

The last date for downloading tender documents shall be 15.11.2016 & opening of tender shall be 16.11.2016. Tenders will be received up to 01.45 P.M. on **16.11.2016** and opened on the same day at 2.00 P.M. in the Tender Room. **Please note that tender received after due date & time (01.45 PM on 16.11.2016) will not be opened.** BHEL will not be responsible for any type of postal / courier delay.

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

The details of each item with required delivery are given in **Annexure-III (Details of Items)**

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

The tender will 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 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

DEFINITION

Registered Vendors - Are those who are registered with BHEL, Haridwar for procurement of Tool Steel Plates/Flats as per Grade T90MN6WCR2-A

Un-registered Vendors - Are those who are not registered with BHEL, Haridwar for procurement of Tool Steel Plates/Flats as per Grade T90MN6WCR2-A.

Vendors must fill up Annexure– II in confirmation to above Minimum Qualifying Requirements and quality requirement.

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 tender document must comprise of four envelopes:
 - i) Envelope I : Pre- Qualifying Requirement & Supplier Registration Form.
 - ii) Envelope II : Techno -Commercial Bid.
 - iii) Envelope III : Price Bid.
4. The tenders shall be submitted in three parts
 - i. Part I - Techno -Commercial Bid,
 - ii. Part II - price Bid &
 - iii. Part III - Vendor Registration Formas described below on or before the due date. Vendor Registration Form shall be submitted by unregistered vendors only.
5. **The Quotation should be from the Principal / Original Manufacturer, failing which the quotation is likely to be ignored. In Case the quotation is submitted through agent, the quotation must accompany original authorization letter.**
6. Documents submitted with the offer/bid by the bidder shall be signed and stamped in each page by authorized representative of the bidder. In case the bid is submitted by FAX, the bidder shall simultaneously ensure submission of signed and stamped (in each page) original bid to BHEL. If the documents are received in soft form, the same should be transmitted through vendor's authorized e-mail followed by the signed and stamped copy of the same documents. Documents not signed and stamped in each page by the authorized signatory of the bidder, shall not be accepted and considered for evaluation of the bid.
7. Any corrections / amendments shall be properly & fully authenticated with signature. No overwriting is acceptable.
8. In case of ordering, manufacturing plan should be submitted for BHEL approval.
9. Part-I containing techno-Commercial bid and part-III containing Vendor Registration Form will be opened on the date and time specified in the tender notice in the presence of those tenders 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 whose techno-commercial bid has been found acceptable.
11. Suitability of delivery shall be the important criteria for evaluation of techno commercial bid and the bids falling within the delivery period and meeting the last delivery requirement.
12. Currency exchange rate will be applicable on the date of opening of Part-I (Techno-commercial Bid) for evaluation purpose.
13. **Evaluation of Bid: - The bid shall be evaluated**
 - a. **Cost to BHEL basis. (Basic Cost + Insurance + Inspection + 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.**
 - c. **Evaluation of comparative statement will be done on item wise basis after combining DEEC & PI quantity and order will be placed accordingly.**
14. 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.
15. All test certificates / Guarantee certificates to be submitted in TRIPLICATE along with dispatch documents.
16. 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.

Tender No. F/F219/6/3553K/1

17. Total weight--/Gross/Net in Kg & also package size essentially should be indicated if not exact then approximate.
18. 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.**

Note: Please visit our site www.bhelhwr.co.in for General Instructions and Standard Terms & Conditions (GISTC) for Tender Enquiries for Indian & Foreign Vendor. All the bidders / vendors must ensure compliance of these GISTC. GISTC can also be referred by login to B2B Portal for BHEL approved Vendors.

IN CASE YOU ARE NOT MAKING AN OFFER AGAINST THIS ENQUIRY, THEN PLEASE ARRANGE TO SEND A LETTER OF REGRET.

DETAILS OF COMPOSITION OF PART-I (TECHNO-COMMERCIAL BID), PART-II (PRICE BID) & PART-III (VENDOR REGISTRATION FORM)

PART-I (TECHNO-COMMERCIAL BID) shall comprise of following documents:

- a. Confirmation to Minimum Qualification Requirement and Quality Requirement as per Annexure-II.
- b. Complete technical offer as per specification, drawings, technical requirement along with un-priced bid.
- c. Delivery schedule.
- d. Inspection charges by LRS/TUV/BV separately for foreign vendors.
- e. Validity of offer to be indicated.
- f. **Annexure- I** - Compliance sheet for technical/commercial terms and conditions for two part tender.
- g. **Deviation with reference to specification/drawing, if any, should be clearly indicated on a separate sheet.**
- h. Details of activity outsourced.
- i. Copy of Quality Plan (Quality Plan Format placed at Annexure- V).

PART –II (Price Bid)

- a. Price bid with prices to be submitted as part-II of the tender.
- b. Prices should remain firm till the execution of the order.
- c. **In case of foreign vendors, Please quote your rates for C&F Landing Port. In case of FOB, Loading port must be mentioned and sea freight must be indicated separately.**
- d. **In case of Indigenous vendor, prices may be quoted on FOR- Destination- Store-HEEP-BHEL basis. Insurance – Marine in case of foreign vendor & inland in case of Indigenous vendor shall be taken care by BHEL.**
- e. LRS/TUV/BV inspection charges to be quoted separately in case of foreign vendors.
- f. **Prices are to be written in both Figures & Words. In case of any difference between the two, the figure written in words shall be considered for evaluation. No over writing in this is acceptable.**
- g. Penalty will be applicable on total order value @0.5% per week or part thereof subject to maximum of 10% of the PO value. In case of any variation in LD penalty, your prices shall be loaded to the extent LD penalty not accepted by you.

Part-III - Vendor Registration Form (SRF)
(SRF-Foreign Suppliers or SRF-Indian Suppliers)

- a. **Supplier/Vendor Registration Form-** Go through online supplier registration portal <https://supplier.bhel.in/> after filling the online registration form send the copy of same along with your offer within due date.
- b. The SRF (as applicable) 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 (Techno-Commercial Bid) by un-registered vendor only with BHEL, HEEP, Haridwar.

MARKING OF ENVELOPE:

- Each envelope is to be super scribed as “TENDER FOR (ITEM NAME) AGAINST TENDER NO. **F/F219/6/3553/K1** DUE ON **16.11.2016**.
- Techno-Commercial - Part-I to be kept in another envelop – Envelop-A & to be marked as Techno-Commercial Offer.
- Vendor Registration Form - Part –III to be kept in another envelop – Envelop – B & to be marked as Vendor Registration Form.
- Price Bid – Part-II to be kept in another envelop – Envelop-C & to be marked as Price Bid.
- Envelop-A, Envelop-B, Envelop-C are to be kept in one envelop super scribed as above

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

ANNEXURE-I**COMPLIANCE SHEET FOR TECHNICAL/COMMERCIAL TERMS AND CONDITIONS
FOR TWO PART TENDER****PLEASE FILL THIS ANNEXURE & ATTACH WITH YOUR TECHNO-COMMERCIAL BID.**

Offer must be sent in two separate sealed envelopes containing techno-commercial offer in one envelope marked "TECHNO-COMMERCIAL BID" and prices in second envelope marked "PRICE-BID". Both the envelopes must be contained in the main envelope. Tender name and due date to be marked on all the envelopes.

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

S. No.	Description	Vendor's Confirmation
1	Vendor to confirm that they meet each & every clause of our specifications/Drawings.	YES / NO
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	YES / NO
5	Confirm that un-priced part of price bid is enclosed with technical commercial offer	YES / NO
6	Confirm delivery quoted as per enquiry	YES / NO
7	For Foreign Vendors- Confirm that you have quoted your rates C&F Landing Port. In case of FOB, sea freight must be indicated in your offer. For Indigenous Vendors- Confirm that you have quoted your rates on FOR Destination basis.	YES / NO
8	Confirm that Loading Port has been mentioned.	YES / NO
9	Confirm that prices shall be firm and fixed throughout delivery period.	YES / NO
10	For Foreign & Indigenous Vendors- Confirm that payment term shall be "100% payment after receipt and acceptance of material.	YES / NO
11	For Foreign Vendors- Third party (LRS/TUV/BV) inspection charges need to be mentioned separately. In case same is not mentioned separately, it will be presumed to be inclusive in your offer and no further confirmation will be taken after opening of techno-commercial bid part-1.	YES/NO
12	Penalty will be applicable on total order value @0.5% per week or part thereof subject to maximum of 10% of the PO value	YES / NO
13	Confirm that all test certificates to be submitted as per BHEL specification. in TRIPLICATE along with dispatch documents	YES / NO
14	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.	YES / NO
15	Confirm specifically that material shall be supplied as per tender documents.	YES / NO
16	Ink signed order acceptance shall be furnished within 15 days of order placement.	YES / NO
17	Confirm if there is Indian agency commission.	YES / NO
18	Confirm acceptance of Risk Purchase clause.	YES / NO
19	Confirm to send original ink signed copy of offer, if offer has been sent through email or FAX or photocopy has been submitted.	YES / NO

ANNEXURE-II**Minimum Qualification Requirement****➤ Technical Requirements-**

Sl. No.	Technical Requirement	Vendor's confirmation (Y/N)
01	Manufacturer must have the experience of manufacturing and supplying tool steel of material grade T90Mn6WCr2, IS: 4430/T31501, ASTM A681/90MnWCr5, EN4957/AISI O1. In support of experience, vendor to submit at least one copy of Purchase Order/Test Certificates of past supplies.	
02	Manufacturing and testing facilities details to be submitted.	
03	Vendor to confirm that they will supply enquiry items as per BHEL enquiry specification HW10892 and enquiry dimensions.	
04	In case of trader/stockiest, vendor to submit details as per point 1-3 above of their principal manufacturer.	
Note- This is applicable for both registered as well as un-registered vendors.		

➤ Quality Requirements-

Sl. No.	Quality Requirement	Vendor's confirmation (Y/N)
01	Vendor to submit quality plan along with offer for BHEL review and approval. Quality Plan shall be in line with ordering specification/documents.	
02	Inspection by TPI (LRS/TUV/BV) for import & BHEL nominated agency 'TUV' for indigenous as per BHEL approved quality plan.	
Note- This is applicable for both registered as well as un-registered vendors.		

Signature with stamp**Name:****Name of Firm:****Designation:****Date:**

ANNEXURE-III**(Item Details and Delivery Schedule)**

Tender No.	Item Description	Mat. Code	Size	Qty. (Kg)	Delivery
F/F219/6/3553K/1	Tool Steel Plates/Flats as per Grade T90MN6WCR2-A and Spec. HW10892 Rev: 02	HW1080392149	4x300x400	600	30.04.2017
		HW1080392114	6x400x400	600	30.04.2017
		HW1080392130	8x400x400	600	30.04.2017

Remarks-

1. Quantity tolerance +10/-0% acceptable.
2. Comparative Statement will be evaluated on item wise basis after combining DEEC and PI Quantity.
3. After placement of order vendor should submit their invoices against goods and services immediately after supply of goods & 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 account.

NOTE: THE QUANTITY INDICATED ABOVE CAN BE INCREASED/ DECREASED.

ANNEXURE-IV

(Specification)



PLANT PURCHASING SPECIFICATION

HEEP - HARDWAR

HW 10092

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TOOL STEEL, FLATS T90Mn6WCr2

1. GENERAL :

This specification governs the quality of annealed Manganese- Chromium- Tungsten tool steels- flats.

2.0 APPLICATION

For the manufacture of tools capable of being hardened and tempered.

3.0 CONDITION OF DELIVERY :

3.1 The material shall be supplied in Hot Rolled & annealed condition followed by rough machining.

3.2 When specified in the order, the material shall be supplied in hot rolled & annealed, ground & tempered condition. The material should be properly annealed so that there is no bend during wire cutting operation.

4. COMPLIANCE WITH NATIONAL STANDARD

The material shall comply with the requirements of :-

IS : 4430-79 (REAFFIRMED-2004) Tool and mould steels.

Gr : T90Mn6WCr2, Annealed

5.0 DIMENSIONS AND TOLERANCES :

5.1 Sizes : Flats of thickness 2,3,4,5,6,8, & 10 mm in different widths and lengths.

5.2 Tolerances

5.2.1 The tolerances on flats- Hot rolled, annealed and rough

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SIGN & DATE

INVENTORY No.

P- 3114

				NAME		SIGN. & DATE	
				DRAWN			
				WORKED		Shri S. N. Bhatnagar 1.7.89	
MTE		J. P. MEENA		CHECKED		S. KUMAR Sudhan 10.7.89	
AGREED DEPT.		NAME		SUPERVISED		PRAKASH SINGH 21.12.90	
REVISION: 01				APPROVED: PLANT			
				STANDARDIZATION COMMITTEE			
				PS			
				2.60			
REV. 01		(REAFFIRMED)		PREPARED:		ISSUED:	
DT. 2-2-2008		17.11.08		TSX		STANDARDS DIVISION	
						DATE: 19/3/90	

INVENTORY No. P-3114	SIGN & DATE	COPYRIGHT AND CONFID. JTIAL The information on this document is the property of Bharat Heavy Electricals Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company.	SUPERSEDES INVENTORY No.	SIGN & DATE		Plant Purchasing Specification HEEP - HARDWAR	HW 10092
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machined shall be as follows : Thickness $\pm$ 0.1 mm Width * 6mm, -0 Length + 10mm , -0 5.2.2 The tolerances on flats- Hot rolled annealed, ground and tempered shall be as follows : Thickness $\pm$0.05 mm Width + 6.00 mm, -0 Length + 10.00 mm, -0 Flatness off hardened blank is permissible up to 0.05/100 limiting to 0.2/600 . 6.0 <u>MANUFACTURE</u> Material shall be manufactured from Killed Steel. Steel shall be made by the Electric or any other approved process as agreed to , between the purchaser & the manufacturer. Sufficient reduction and discards shall be made from each in got to ensure freedom from piping, segregation and other harmful defects. The material shall be rough machined, chipped or ground to remove all surface imperfections which are likely to produce defects in the finished products. If the material is conditioned by grinding or chipping, depth of conditioning shall be exceed half the machining allowance per side & width of conditioning shall be atleast four times its greatest depth. 7. <u>FREEDOM FROM DEFECTS :</u> The finished material shall be free^{from} all internal and surface defects such as seams, cracks , pipes, flakes and segregations. 8. <u>CHEMICAL COMPOSITION :</u> In ladle analysis of steel and permissible variation in the composition of the finished product from the ladle analysis shall be as follows :							
REVISION 01		REV.02	DATE:17/11/08		WORKED BY <i>Shriy S. N. Singh</i>	17.89	
					CHECKED BY S. KUMAR	<i>Sudhir</i> 10.7.89	



Plant Purchasing Specification

HEEP - HARDWAR

HW 400 92

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SIGN & DATE

SUPERSEDES
INVENTORY No.

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Element	Percent		Permissible variation percent max. (a)
	Min.	Max.	
Carbon	0.85	0.95	± 0.03
Silicon	0.10	0.35	± 0.03
Manganese	1.25	1.75	± 0.06
Chromium	0.30	0.60	± 0.05
Tungsten	0.40	0.60	± 0.04 (a)
Vanadium	-	0.25	± 0.02
Sulphur	-	0.035	$\pm 0.005 + 0.005$ (a)
Phosphorus	-	0.035	$\pm 0.005 + 0.005$ (a)

NOTE :

Elements not quoted above shall not be added to the steel, except when agreed to, other than for the purpose of finishing the heat and shall not exceed the following limits.

Elements	Percent , Max.
Nickel	0.25
Molybdenum	0.25
Copper	0.35
Cobalt	0.10

9. TEST SAMPLES :

One sample product shall be taken from each case for chemical analysis. For hardness test 5 percent of the no. of pieces in the charged upto a maximum of 10 & minimum of 2 covering all sizes shall be taken.

10. MECHANICAL PROPERTIES :

Hardness as Received conditions :

When tested in accordance with IS:1500-2005, the test pieces shall show a Brinell Hardness of 230 HB Maximum.

11. RESPONSE TO HEAT TREATMENT :

Material shall be capable of responding to the heat treatment specified below and the material must achieve a minimum hardness of 60-65 HRC without showing any sign of

REVISION 01

REV - 02

DATE - 17.11.08

WORKED BY

Shiv S. Nigam

17.89

CHECKED BY

S. KUMAR

Sudhir

10.7.89

INVENTORY No. P-3114	SIGN & DATE	SIGN & DATE	SIGN & DATE		Plant Purchasing Specification HEEP - HARDWAR	HW 10892
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overheating. Harden in oil at a temp. of 800-830°C. Temper at a suitable temp. between 170-300°C. 12. <u>TEST CERTIFICATE :</u> Three copies of test certificates shall be supplied unless otherwise stated on the order. The test certificate shall bear the following information: 12.1 <u>BHEL References :</u> 12.2 <u>BHEL Order No :</u> 12.3 <u>Supplier's Reference :</u> Name : Identification No : Cast No : Details of Heat Treatment : 13. <u>RESULTS OF TESTS :</u> Results, of chemical analysis and hardness tests in annealed, hardened and tempered conditions. 14. <u>PACKING AND MARKING :</u> The material shall be suitably packed in bundles to prevent corrosion and damage during transit. Material above 25mm in dia or of equivalent cross section shall be stamped HW 10892 and cast no. on the side near the end or on the end face. A metal lable shall be securely attached to each bundle and shall bear the following information. HW 10892 : T90Mn6WCr2 Tool Staal flat - Annealed. BHEL Order No : Consignment or identification No : Cast No : Size and weight : Supplier's Name : 15. <u>EQUIVILENT STANDARD & GRADES (FOR REFERENCE ONLY) - (a)</u> BOHLAR : K460 AISI : 01 DIN : 1.2510 100 MnCrW4 BS : 801 IS : 4430-1979						
REVISION 01	REV - 02	DATE - 17-11-00	WORKED BY <i>Chirag S. Nataraj</i> 1.7.89	CHECKED BY <i>S. KUMAR</i> 10.7.89		

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ANNEXURE-V

(Quality Plan Format)

ANNEXURE- VI

Certificate by Chartered Accountant on letter head

This is to Certify that M/s
(hereinafter referred to as 'company') having its registered office atis
registered under MSMED Act 2006, (Entrepreneur Memorandum No (Part- II)
.....dtd:.....,
Category:.....(Micro/Small).(copy enclosed).

Further verified from the Books of Accounts that the investment of the company as
on dateas per MSMED Act 2006 is as follows:

1. **For Manufacturing Enterprises:** Investment in plant and machinery (i.e. original cost excluding land and building and the items specified by the Ministry of Small Scale Industries vide its notification No. S.O.1722(E) dated October 5, 2006:
Rs.....Lacs
2. **For Service Enterprises:** Investment in equipment (original cost excluding land and building and furniture, fittings and other items not directly related to the service rendered or as may be notified under the MSMED act, 2006:
Rs.....Lacs

(Strike off whichever is not applicable)

The above investment of RsLacs is within permissible limit of Rs..... Lacs for
.....micro / small (Strike off which is not applicable) Category under MSMED Act 2006.

Or

The company has been graduated from its original category (Micro / Small) (**Strike off whichever is not applicable**) and the date of graduation of such enterprises from its original category is
(dd/mm/yyyy) which is within the period of 3 years from the date of graduation of such enterprises from its original category as notified vide S.O. No. 3322(E) dated 01.11.2013 published in the gazette notification dated 04.11.2013 by Ministry of MSME.

Date:

(Signature)

Name-

Membership Number-

Seal of Chartered Accountant