

Fax: 01334-226462, Phone: 01334-284570

E-mail: ajaykumar.gupta@bhel.in

Tender no: PPX-F&HE/EOI/WT/2019-20/003 Due Date: 21/08/2019

Notice for Expression of Interest for empanelment of New Vendors

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

We are looking for reputed vendors having capability for supplying following materials-

SN	MAT.CODE	Description	Average annual Consumption
1	HW7711297980	NICKEL AND NICKEL ALLOY COVERE D	10000 No
_		WELDING ELECTRODE SPEC: HW7711297	10000 140
		REV: 02 SIZE: 3.15X350 DIM.: DXL	
2	HW7711297971	NICKEL AND NICKEL ALLOY COVERE D	4000 No
		WELDING ELECTRODE SPEC: HW7711297	
		REV: 02 SIZE: 4X350 DIM.: DXL	
3	HW7711297963	NICKEL AND NICKEL ALLOY COVERE D	5000 NO
		WELDING ELECTRODE SPEC: HW7711297	
		REV: 02 SIZE: 5 X350 DIM.: DXL	
4	HW7711297998	NICKEL AND NICKEL ALLOY COVERE D	5000 nO
		WELDING ELECTRODE SPEC: HW7711297	
		REV: 02 SIZE: 2.50 X 350	
5	HW7799991364	NICKLE & NICKLE ALLOY FILLER WIRE (IN	300 kg
		SPOOL) GMAW PROCESS- ER NICR-3 AS	
		PER ASME SECTION II-C , SFA 5.14/DIN	
		1736, SG-NICR20NB. OR K TYPE WITH	
		ADOPTOR. SPEC: ASME SECTION-IIC REV:	
		?? SIZE: 1.2 DIM.: DIA IN MM GRADE: -	

Contact persons:

Mr. Vinay Kumar Soni Designation: Dy. Mgr

(PPX-F & HE) Email: vinaysoni@bhel.in

Phone No: +91 1334-281478

The offers received will be technically evaluated by BHEL & successful short listed parties will be asked to submit their detailed Techno-Commercial offers through formal NIT/Enquiry for our future requirements. Vendors shall confirm that there is no deviation with respect to BHEL Specifications.



Fax: 01334-226462, Phone: 01334-284570

E-mail: ajaykumar.gupta@bhel.in

However deviations, if any are to be listed as a separate attachment. The offers that do not meet the substantial requirements of our specifications are liable to be ignored.



Fax: 01334-226462, Phone: 01334-284570

E-mail: ajaykumar.gupta@bhel.in

Following documents are to be necessarily filled and submitted along with the technical offer:

- 1. Details/ Documents in support of Specification/PQR (Annexure-I up-loaded)
- 2. 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.
- 3. Details of Manufacturing Facility
- 4. Company Profile.
- **5.** Financial report of the company.
- **6.** Past experience along with documentary proof.



Fax: 01334-226462, Phone: 01334-284570

E-mail: ajaykumar.gupta@bhel.in

Only Technical BID along with the documents mentioned above should be sent and the envelope containing the offer shall be duly sealed and super scribed as "Technical Offer for (ITEM NAME) AGAINST Tender No. PPX-F&HE/EOI/WT/2019-20/003

Due Date-21.08.2019, SUBMITTED BY (Name of company)"

- This notification shall be published on <u>www.bhel.com</u>, and <u>www.bhelhwr.co.in</u>
- Last date for downloading tender documents shall be 20.08.2019 till 1700 Hrs.(IST). Tenders will be received up to 13:45 Hrs. (IST) on 21.08.2019 will be considered and opened on the same day at 14:00 Hrs. (IST) in the Tender Room BHEL HEEP, Haridwar.
- Technical Offers complete in all respect must be addressed to "Shri A K Gupta, AGM (AIX and PPX- F)".
- EMD & Tender fee are not applicable.
- The Quotation should be from the Principal / Original Manufacturer, failing which the quotation may likely to be ignored. In Case the quotation is submitted through agent, the quotation must accompany original authorization letter.
- Late offers will not be considered in any case. BHEL will not be responsible for any type of postal delay / incomplete information from vendor.
- Amendments / Corrigendum, if any, will be hosted on our web site only.

For any further details please log on to www.bhel.com or www.bhelhwr.co.in

(A K Gupta)
AGM (AIX & PPX-F)



Fax: 01334-226462, Phone: 01334-284570

E-mail: ajaykumar.gupta@bhel.in

ANNEXURE-I

A. Specification HW7711297 (Welding Electrode- EN ISO 14172, E Ni 6082)

- a. This electrode is used for welding of various grades of creep resistant steels. Vendor must submit creep data in line with specification clause no 4(V). Creep testing must be carried out at NML, Jamshedpur/ BHEL R&D, Hyderabad / any other mutually agreed reputed agency.
- b. In case, vendor submits satisfactory creep data, vendor to submit sample of electrode to BHEL, WRI, Trichy for chemical & mechanical testing as per specification. Vendor to submit this successful test report to BHEL, Hardwar.
- c. In case of fulfilment of above two conditions, development order will be placed for checking usability of electrodes at shop floor.
- d. After satisfactory shop performance feedback of the electrode based on development order, vendor will be enlisted as approved vendor at BHEL, Hardwar.



Pre-Qualification Requirement (PQR)

(PMD: WT031)

GMAW filler wire "ER NiCr-3 (In Spool) as per AWS 5.14 or "SG-NiCr20N" bas per DIN 1736

a. This welding wire is being used for welding of various grades of creep resistant steels. Vendor must has to submit creep data as following:

Creep Rupture Strength: 112 N/mm2 at 600°C for 10,000 Hrs

160 N/mm2 at 600°C for 1000 Hrs

- Creep testing must be carried out at NML, Jamshedpur/ BHEL R&D, Hyderabad / any other mutually agreed reputed agency.
- b. In case, vendor submits satisfactory creep data, vendor to submit sample of welding wire to BHEL/ WRI/ Trichy for chemical & mechanical testing as per specification. Vendor to submit this successful test report to BHEL, Hardwar.
- c. In case of fulfillment of above two conditions, development order will be placed for checking usability of electrodes at shop floor.
- d. After satisfactory shop performance feedback of the electrode, vendor will be enlisted as approved vendor at BHEL, Hardwar.

Ritende Ken



Fax: 01334-226462, Phone: 01334-284570

E-mail: ajaykumar.gupta@bhel.in



ANNEXURE-I

A. Specification HW7711297 (Welding Electrode- EN ISO 14172, E Ni 6082)

- a. This electrode is used for welding of various grades of creep resistant steels. Vendor must submit creep data in line with specification clause no 4(V). Creep testing must be carried out at NML, Jamshedpur/ BHEL R&D, Hyderabad / any other mutually agreed reputed agency.
- b. In case, vendor submits satisfactory creep data, vendor to submit sample of electrode to BHEL, WRI, Trichy for chemical & mechanical testing as per specification. Vendor to submit this successful test report to BHEL, Hardwar.
- c. In case of fulfilment of above two conditions, development order will be placed for checking usability of electrodes at shop floor.
- d. After satisfactory shop performance feedback of the electrode based on development order, vendor will be enlisted as approved vendor at BHEL, Hardwar.



TE TE	•			संस्थान मानक (हीप – हरिद्वार)		HW7711297					
दिनांक एवं हस्ताक्षर SIGN & DATE		भी एग ई जुल १३ किंग					पृष्ठ का				
įΣ S.			PLA	NT STAN	DARD (HEEP-	HARDWAR)	Page 1 Of 2				
SUPERSEDES INVENTORY		NICKEL AND NICKEL ALLOY COVERED WELDING ELECTRODE									
SU		1.0 SCOPE									
सामग्री सूची संख्या को		This Specification covers the quality of general purpose nickel alloy covered welding electrode as per EN ISO 14172-ENi6082 (NiCr20Mn3Nb).									
∓		2.0 <u>CODIFICATION</u>									
	220			HW 771129			;				
ŀ	perty be us to th			HW 771129							
٦٩	the process not insenta	,		HW 771129							
[A]	ments is t ited.It mu way detri company	, ,, ,,			· 						
HS HS	s docume al Limite in any wa of the co	3.0 <u>CH</u>	EMICAL CON	APOSITION,							
COPYRIGHT AND	The information on this documents is the prop Bhartt Heavy Electrical Limited.It must not directly or indirectly in any way defrimental interest of the company	<u>Elemen</u>	te		Percent (Max	rimum)					
98	ation o		113			<u>amum,</u>					
	inform at Hea cdy or	Carbon			0.10		5.4				
	The i Bhar dire	Mangan Iron	ise		2.0 to 6.0 4.0						
<u> </u>	ir .	Silicon			4.0 0.80						
	ag 1ag 3d 3d 3d 3d	Copper			0.50						
	स के इ.स.	Phospho	Arne		0.02						
	म् स्	Sulpher			0.015						
 € 1	ē 6≟ Ε 1≎	Nickle			63.0 (Min.)						
ŧ	क्रूका क्यमी	Titaniur	n		0.50						
1 E	रत डवाइल प्रस्थक्ष एवं योग,जोकि कियाजाए	Chromi		•	18.0 to 22.0						
(a)	ारत है प्रस्य विभेग, भ	Nb			1.5 to 3.0						
स्वत्वाधिकार एवं गोपनीय	्चनाक्ष यरक्ष	Molybd	enum		2.0						
4	न दा गहु सूचना भारत हवा हुलाबहुनकरने को सन्पारत हु हुपछने मुरुक्त मुन्ता के प्रतिकार के मुन्ता मुक्त के मुन्ति में झनिकारक हो न कि मा जाए।	Other el			0.50						
*	म् स्कूम					-					
	हस प्रत्यक्ष म द्वा गह सूचना भारत हवा ह्वावद्रकृत्यन का सन्पारत है हम्सका मन्द्रक्ष स्था से किसी भी तएड प्रयोग, जो कि कंपनी के हिंत में हानिकारक हो किया जाए।	4.0 MECHANICAL PROPERTIES(AS WELDED)									
	10	i) Ten	sile strength		: 600 M	Pa (Min.)					
	0		ld strength at ().2 % off-set		Pa (Min.)					
<u>p</u> E	4	iii) Elo	ngation	•	: 35%	` '					
i RH DA	ሌ	iv) Cha	rpy V-notch I	mpact	: 90 J (a	at 20 °C)					
हस्ताक्षर एवं दिनाक SIGN & DATE	9,	··· I				नाम	9				
SIG	、"					NAME	दिनांक एवं इस्तक्षर SIGNATURE & DATE				
ليرا				60	अनुवादक TRANSLATED BY		. \				
\square	9		B. CHOUDHARY	(B) 14 03 10		V K VERMA	My 103 - 10				
]]		QA 🗶 🔥 सङमत विभाग	MALVINDER SING	दिनांक एवं इस्ताबर	जांचकर्या CHECKED BY	B S ARORA	7.2.6				
सामग्री सूक्षी संख्या NVENTORY NO.	12	AGREED DEPTT	NAME	DATE & SIGNATURE	पर्यवेक्षणकर्ता SUPERVISED BY	HPROY	13/10				
A P	5				_{खीकृति} : संस्थान म	गनक समिति	GP NO.				
F N	3	DEM NO. 02 100	Nine OCE X CE		Porto	APPROVED	2.62				
1	Pr.	REV.NO. 02 C Dt.08.03.2010	UPERSEDES		निर्माण : PREPARED : WTX	ज़ारी : मानक विमाग ISSUED : STANDARDS	l i				
	P					LIBOURD: STANDAKDS	DIVISION DATE: Jan 95				

એ Z	संस्थान मानक (हीप – हरिद्वार)	HW7711297									
IBIY SIGI	विराहिता (हाप – हारद्वार)	पृष्ठ का									
Paring of return SIGN	PLANT STANDARD (HEEP-HARDWAR)	Page 2 of 2									
SUPERSEDES	v) Creep Rupture Strength - 112 N/mm ² At Temperature 600°C for 10,000 hours. OR 160 N/mm ² At Temperature 600°C for 1,000 hours.										
। विद्या	5.0 TEST CERTIFICATES										
साम्ग्री सूब संख्या को	The supplier shall submit 3 copies of test certificates, giving the following information's dispatch documents.										
COPYRIGHT AND CONFIDENTIAL. The information on this documents is the property of Biturat Heavy Electrical Limited It must not be used directly or indirectly in any way definited in the interest of the company	 i) Our purchase order number. ii) Suppliers name. iii) Chemical composition. iv) Mechanical properties. v) Size/ length. vi) Consignment Identification. 6.0 MARKING: a. Party will print classification and brand name on the electrode covering mand at one place. 	nearest to the gripping									
स्वत्ताधिकार एवं गोपनीय इस प्रतेथ में दी मई सूवन गारत हेथी हलेक्ट्रिकल की सम्पत्ति है इसका प्रस्म एवं स एव से किसी भी तरह प्रयोग, जो कि कंगनी से हित में हानिकारक भो न किया जार ।	 b. Supplier shall print the following information's on each spool: Brand name Size Batch no. & date of manufacturing Quantity & net weight. 7.0 PACKING: It should be dispatched in seaworthy and suitable packing to avoid any damastransit and storage. 	ge during handling,									
SIGN & DATE FR	8.0 ACCEPTANCE: At the option and the expense of the purchaser, any or all of the test requirements of this specification may be used as a basis for acceptance of the products covered by this specification. 9.0 REMARK The requirement is based on electrode NICRO-82 of M/S Thussen, Germany or its equivalent.										
HIPHIN QUI RECENT INVENTORY NO.	REV. NO. 02 निर्माणकर्ता worked by जांचकर्ता CHECKED BY	Dind 08:03:10									