



ISO 9001:2008
& 14001:2004
NAVARATNA
COMPANY

MATERIAL MANAGEMENT (PURCHASE)
CENTRAL FOUNDRY FORGE PLANT, BHEL HARDWAR
RANIPUR, HARIDWAR (INDIA) – 249403
Phone No. +91-1334-281277/284684, FAX No. 225892
e-mail : ranjank@bhelhwr.co.in; rohit_v@bhelhwr.co.in;
v_kumar@bhelhwr.co.in

Sub: Tender Enquiry No: 2530P/351/3/0698D1 due on 16.05.14, at 2.00 PM

Dear Sir,

We are pleased to invite offer as per enclosed specifications with terms and conditions in sealed covers for the under mentioned items.

Sl No	Tender No	Description of Material	Qty	Date & Time of Opening
01	2530P/351/3/0698D1	Gouging and Welding Holder	150 & 250 Nos.	16.05.14 at 2.00 PM

KINDLY READ TERMS AND CONDITIONS. OFFER NOT IN ACCORDANCE WITH THE INSTRUCTIONS IS LIABLE TO BE DISQUALIFIED OR IGNORED.

Please visit www.bhel.com or www.bhelhwr.co.in for more details and tender documents.

Unregistered vendors should download Vendor Registration Form and submit same duly filled along with offer.

Thanking You,

Yours Faithfully,
For & On behalf of CFFP, BHEL, Hardwar

(Vipin Kumar)
Engineer (Purchase)

Note: Corrigendum if any shall not be published, kindly refers websites for any changes.



निविदा सूचना
TENDER ENQUIRY

भारत हैवी इलेक्ट्रिकल्स लिमिटेड
Bharat Heavy Electricals Ltd
सेंट्रल फाउन्ड्री फोर्ज प्लांट- हरिद्वार - २४६४०३ (भारत)
Central Foundry Forge Plant, Haridwar-249403 (INDIA)

AA-17001

Phone : (0091) 01334- 281639,281385,285336 Fax : 01334 225892 / 226458

TIN NO. 05001763485
C S T NO. HR-5018287 Dt. 16-03-1995

निविदा सूचना सं. ENQUIRY NO.*	2530 P/ 351/3/0698D1	दिनांक Date	30-04-2014
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कृपया निम्नलिखित के लिए निविदा दें। PLEASE QUOTE FOR THE FOLLOWING :

M/S. :: DUE DATE 16-05-2014
::
:: Vendor Code 09285
INDIA

SL	MATERIAL CODE ITEM DESCRIPTION	QUANTITY	UNIT	LOTNO	LOT DELIVERY QTY SCHEDULE
1	FF7713384022 GOUGING ELECTRODE HOLDER (1000 AMP) SPEC: FF77184R03 REV. 22 SIZE: 1000 AMP DIM.: S	150	NO	1	150 30/05/14 as per Annexure A
2	FF7753399012 WELDING ELECTRODE HOLDER SPEC: FF77599R03 REV. 22 SIZE: 600 AMP DIM.: S	250	NO	1	250 30/05/14 as per Annexure A

** IMPORTANT: This enquiry is 2 part tender. Techno-Commercial bid (Part-1) & Price Bids (Part-2) should be submitted in separate envelopes. These two envelopes should be submitted in a common sealed envelope. Techno-Commercial Bid shall contain detailed Technical Specification, Drawings Technical documents, Catalogues, taxes & duties, payment terms, delivery period, Validity of offer, Replica of Price Bid (Copy of price bid without price part) etc. The confirmation to the special terms & conditions must be submitted alongwith Techno-Commercial bid.

Standard Instructions:
TEST CERTIFICATE REQUIRED.
GUARANTEE CERTIFICATE REQUIRED.
BASIC RATES, TAXES DUTIES SEPERATELY
CENVATABL DUPLICATE COPY OF INVOICE.
INSP AFTER RECPT AT CFFP.

Special Instructions:
Submit Annexure 'A' duly filled, signed & stamped with the offer.
SPECIFICATION ARE ENCLOSED.

General Instructions:
1. Please submit authorization letter (format enclosed) for facilitating e-payment/electronic transfer of funds
2. 100% payment within 30 days after receipt & acceptance of material at CFFP BHEL, Hardwar through e-payment.

V. Jain
30/09/14

Page No 1

★ महत्वपूर्ण : कृपया कोटेशन देने से पूर्व पीछे दिए गये अनुदेशों को ध्यानपूर्वक पढ़िये।

IMPORTANT : PLEASE READ CAREFULLY THE INSTRUCTIONS GIVEN ON REVERSE BEFORE QUOTING



निविदा सूचना
TENDER ENQUIRY

AA-17001

भारत हैवी इलैक्ट्रिकल्स लिमिटेड
Bharat Heavy Electricals Ltd
सेन्ट्रल फाउन्ड्री फोर्ज प्लांट- हरिद्वार - २४६४०३ (भारत)
Central Foundry Forge Plant, Haridwar-249403 (INDIA)

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निविदा सूचना सं. ENQUIRY NO.*	2530 P/ 351/3/0698D1	दिनांक Date	30-04-2014
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कृपया निम्नलिखित के लिए निविदा दें। PLEASE QUOTE FOR THE FOLLOWING :

MATERIAL CODE	QUANTITY	UNIT	LOTNO
ITEM DESCRIPTION			

3. CFFP/BHEL RESERVES THE RIGHT TO PRE-INSPECT THE MATERIAL AT VENDOR'S WORKS / GODOWN/ PREMISES BEFORE DESPATCH.
 4. ORIGINAL MANUFACTURER'S TEST CERTIFICATE IS REQUIRED ALONG WITH DESPATCH DOCUMENTS. IN CASE SUPPLIES ARE FROM TRADERS, IT SHALL BE THE RESPONSIBILITY OF THE TRADER TO PROVIDE ORIGINAL MANUFACTURER'S TEST CERTIFICATE WITH LINKAGE TO TRADER'S INVOICE STATING BATCH NO.
 5. CFFP/BHEL Reserves the right to procure from more than one vendor.
 6. Please quote prices in figures & words both. In case the prices quoted in words and figures are different, the values indicated in words will be considered for evaluation & establishing L1 status.
- * The offers of the bidders who are on the banned list as also the offers of the bidders, who engage the services of the banned firms, shall be rejected. The list of banned firms is available on web site www.bhel.com

(Signature)
VIPIN KUMAR 30/04/14

ENGINEER (PUR)

★ महत्वपूर्ण : कृपया कोटेशन देने से पूर्व पीछे दिए गये अनुदेशों को ध्यानपूर्वक पढ़िये।

IMPORTANT : PLEASE READ CAREFULLY THE INSTRUCTIONS GIVEN ON REVERSE BEFORE QUOTING

Name of Vendor:.....

Evaluation shall be done on the basis of delivered cost (i.e.) "total cost to BHEL". Confirmation/comments on the conditions given below are mandatory. Please confirm the following or else your offer is liable to be rejected.

	Description	Vendor Confirmation /Comment (In case of blank, it shall be deemed to be accepted by vendor)
1	<p>Pre Qualification Criteria:</p> <p>a. Vendor should have previous experience of supplying Gouging & Welding Holder (1000 A capacity for Gouging & 600 A for Welding) to reputed firms successfully for more than two years. Vendor to submit copies of PO & Performance Certificate in support of same.</p> <p>b. All vendors to submit 2 nos each of offered Gouging & Welding Holders alongwith Technical bid to access the technical suitability. The holders may be submitted on returnable basis which shall be returned in used condition after placement of PO however Samples submitted by vendor on whom PO is placed will be returned only after successful completion of PO.</p>	
2	Guarantee Certificate (as per specification/enquiry) shall be provided along with despatch documents.	
3	Please specify whether you are a manufacturer or a trader of this material	
4	Original Manufacturer's Test Certificate shall be provided along with despatch documents.	
5	Final inspection shall be carried out after receipt of material at CFFP. However, CFFP reserves the right to pre Inspect the material at supplier works.	
6	Delivery shall be made on FOR Destination basis, destination being Stores/CFFP/BHEL Haridwar, Freight & Insurance charges to vendor's account.	
7	<p>Payment Term: 100% within 30 days after receipt & acceptance of material at CFFP / BHEL, Haridwar through e-payment.</p> <p>* In case vendor does not agree, proper loading shall be done. Base rate of SBI (as applicable on the date of bid opening: Techno commercial bid opening in case of two part bids) + 6%, shall be considered for loading for the period of relaxation sought by bidders.</p> <p>Advance payment / Payment through bank not acceptable for this enquiry.</p>	
8	Validity of offer: Minimum 90 days from tender opening date. Offers with validity less than 90 days may not be considered.	
9	Delivery schedule: 45 days from PO date	
10	Prices shall be firm till execution of Order	
11	CFFP/BHEL reserves the right to order part quantity.	
12	Liquidated damage : The delivery of the goods shall be made strictly as per time limit specified in delivery schedule of purchase order, failure to supply within this period will make the supplier liable to penalty of 1/2 (half) percent of the price of the goods in arrears per week subject to a maximum of 10%.	
13	Provide name, mobile no. & email address of the contact person	
14	In case vendor is not registered with CFFP BHEL Haridwar for this material, duly filled up "Supplier Registration Form" must be submitted with techno-commercial bid (form available on website www.bhelhwr.co.in & www.bhel.com). If duly filled SRF is not received within 15 days of opening of techno commercial bid, offer may not be considered for price bid opening.	
15	Risk Purchase: In case of delayed/defective supplies or non fulfillment of any other terms & conditions given in the Purchase Order, the purchaser may cancel the purchase order in full or part thereof and may also make the purchase of such material at the risk & cost of supplier.	
16	In case of any difference observed in conditions confirmed above & elsewhere in the offer, terms quoted above shall be treated as final and binding on vendor.	

Date:

Signature with Seal of the Company

GENERAL TERMS AND CONDITIONS OF TENDER ENQUIRY
ANNEXURE-B

01 Submit the tender in two parts i.e.

Part-I Techno-Commercial Bid

Part-II Price Bid

Techo - Commercial (part one) Price Bid (part two) should be put in separate sealed envelopes. Both envelopes should be super scribed with **Tender Number, Date of opening & Technical / Commercial Bid and Price Bid** respectively along with name of firm.

Both the envelopes i.e. containing Techno-Commercial Bid and Price Bid should again be kept in one envelope super scribed again with Tender No. and Date of opening and the name of firm submitting the tender and send it to **AGM (MM), Purchase Department, CFFP/BHEL, Hardwar, Ranipur, Hardwar 249403, Uttarakhand, India before due date / tender opening date & time**. Normally tender opening time is 2.00 PM on due date or as mentioned in enquiry.

Responsibility for submission of tender in time solely lies with vendor. Late offers received after specified time / Date shall not be considered.

1. Part-I Envelopes super scribed with **Techno-Commercial Bid** must contain all information especially-
 - (a) Specification of the material offered should be strictly as per CFFP/BHEL specifications of enquired material in tender documents **Deviations if any must be indicated clearly in the offer. Rates to be quoted on For Destination Basis.**
 - (b) All commercial terms i.e. packing, forwarding Custom duty, Additional Duty, ST/STT/VAT/CST, Excise Duty/CVD. Bank charges, payment terms & insurance etc as applicable (**except price**) should be clearly mentioned in Techno-Commercial bid. Also mention present rate of applicable taxes & duties even if inclusive in rates along with the concessional forms required if any.
 - (c) Confirm to submit all required commercial documents (tax invoice centvatable duplicate copy of invoice, packing list, transit sale agreement etc.) & technical documents (TC/GC/QP etc).
 - (d) Registration Numbers of SSI, Central Excise, Sales tax, Income Tax, DGS & D.ECC etc.
 - (e) **Un-priced copy of Price Bid.**

Part-II Envelopes super scribed with Price Bid should contain priced copy of Price Bid. The price should be mentioned both in figures and words.

2. Authorized Signatory should authenticate all tender documents.
3. **Techno-commercial bid (Part-I)** will be opened on the due date at 2.00 PM in the presence of participating vendors or authorized representatives, who may wish to be present. Representative deputed to witness tender opening must produce an authority letter from the signatory of offer. After evaluation of technical bids & finalization of technical, commercial terms & conditions, price bid of only successful vendors will be opened. Priced bid opening date shall be intimated separately.
4. The material offered must conform to the required BHEL specifications and drawings as well as instructions and details made available.
5. For new vendors, Vendor Registration from duly filled must be submitted along with the offer which can be downloaded from our web site www.bhel.com or www.bhelhwr.co.in.
6. Original manufacturer's Test Certificate is required along with dispatch documents. In case supplies are from traders, it shall be the responsibility of the trader to provide original manufacture's test certificate with linkage to traders invoice stating batch no.
7. **Validity** of offers should be minimum 90 working days from the date of tender (Techno-Commercial Bid) opening.

8. **Delivery** in the promised period is the essence of contract. Confirm to supply according to delivery schedule mentioned.
9. **Payment terms:**
For indigenous suppliers: 100% within 30 days after receipt & acceptance of material at CFFP / BHEL, Haridwar through e-payment.
For foreign suppliers: Payment through USANCE LC on 70th day of bill of lading date. All bank charges shall be to vendor's account.

* In case vendor does not agree, proper loading shall be done. Also in that case, third party inspection shall have to be arranged by supplier from any of the five inspection agencies namely: LRS/ BVQI/ DNV/ TUV/ Alfred H Knight at their cost.
10. CFFP/BHEL, Hardwar reserves the right to accept or reject any or all tenders without assigning any reason thereof.
11. Tenders not submitted in the prescribed manner are likely to be ignored / rejected.
12. Agent/Agency Commissioning: Payment of any kind at any stage will not be made to agent on account of agent commission or otherwise by CFFP/BHEL, Hardwar.
13. CFFP/BHEL, Hardwar may opt for E-auction/Reverse auction for obtaining best prices for part or full tendered quantity. BHEL also reserve the right to negotiate price with L1 vendor after reverse auction.
14. Please do intimate the personal contact details like Name, Mobile Number, Email-id etc of authorized executive for correspondence.
15. **Penalty:** Orders placed against this enquiry will be subject to normal clauses for imposing penalty. Liquidated Damages, Risk purchases, cancellation, arbitration as per terms and conditions of Tender Enquiry and Purchase orders in case of delay in effecting supply and/ or other defaults.
Liquidated damage: The delivery of the goods shall be made strictly as per time limit specified in delivery schedule, failure to supply within this period will make the supplier liable to an conditional penalty of 1/2 (half) percent of the price of the goods in arrears per week subject to a maximum of 10%.
16. **Inspection:** Final inspection of material shall be done after receipt of material at CFFP/BHEL, Hardwar. Acceptance of material shall be after final inspection and shall be binding. However, CFFP reserves the right to pre Inspect the material at supplier works. In case material is found defective during warranty period, the same will be returned for repair and/ or replacement. For this vendor has to bear all the charges such as Freight, to and fro insurance etc. Bank Guarantee for the equal amount to the cost of the item is to be furnished by vendor. In case the repair is done at CFFP/BHEL the amount on actual shall have to be reimbursed by the Vendor and or adjusted on actual from their bill.
17. **Currency of Payment:** Mention the currency in which payment has to be made. For evaluation of price bids, exchange rate (TT selling rate of SBI) as on scheduled date of tender opening (Part-1 bid in case of two part bid) shall be considered.
18. Traders should submit authorization letter from their principal alongwith offer.
19. Disputes: In event of any dispute arising out of contractual obligation, the order being finalized at Hardwar, India will be subject to Indian Laws and falls under jurisdiction of the court of Law at Haridwar, India. The overseas supplier hereafter referred to as "Vendor" shall therefore abide by the verdict of Court of Law at Hardwar, India.
OR
All disputes arising out of or in connection with the present contract, if any shall be finally settled under the rules of arbitration of International chamber of commerce by one or more arbitrator appointed in accordance with the said Rules in India.
20. BHEL reserves the right to place P.O. for part / full qty and on one or more than one sources.
21. Any Term & condition of the specific tender (if specified in tender & contradicts with above term) will supersede the above general terms & conditions.

दिनांक एवं हस्ताक्षर
SIGN & DATE



संस्थान क्रय विनिर्देश (सी.एफ.एफ.पी. - हरिद्वार)

FF 77184 Rev 03

पृष्ठ का
Page 1 of 5

PLANT PURCHASE SPECIFICATION
(CFFP - HARDWAR)

SUPERSEDES
INVENTORY NO.

आवक्री सूची संख्या
को अधिगणित करना

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स्वात्वाधिकार एवं गोपनीयता इस प्रलेख में दी गई सूचना भारत हेवी इलेक्ट्रिकल्स की सम्पत्ति है इसका प्रत्यक्ष एवं अप्रत्यक्ष रूप से किसी भी तरह प्रयोग, जो कि कंपनी के हित में हानिकारक हो न किया जाए ।

GOUGING ELECTRODE HOLDER

1. Scope :

This purchase specification specifies the requirements and tests for gouging electrode holder (used for removal of material from steel castings with the help of gouging carbon electrodes), in order to optimize the safety of the welder and to ensure satisfactory condition of use during heavy duty manual electric arc gouging on carbon steel and different alloy steel castings.

2. Compliance with National & International Standard :

The gouging electrode holder shall be in general as per IS 2641:1993 suitable for current range at 100% duty cycle use with the characteristics as stated under Technical specifications.

3. Technical Specifications:

3.1 Type of Gouging Holder and their current capacity.

Type of Gouging Holder	Suitable for Gouging Electrode	Current Rating at 100% duty cycle	Length of heavy duty cable
Gouging Holder 1000 Amps	Ø9mm and Ø12mm	1000 amps	2 meter long
Gouging Holder 1800 Amps	Ø18mm	1800 amps	3 meter long



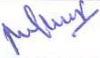
- 3.2 The gouging Electrode Holder shall be suitable for use on circuit with OCV up-to and including 100 V (RMS).
- 3.3 The gouging holder shall be made of copper/copper alloy, free from blow holes, cracks and defect which impair the electrical conductivity.
- 3.4 The gouging electrode holder shall be open mouth-jaw and shall be as light as possible.
- 3.5 The gouging electrode holder shall be fitted with unitized standard cable & hose, air cooled & swivel type terminating in rubber/jacketed air-power connection and insulation boot. Provision shall be there for connection of pneumatic hose.


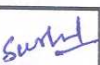

हस्ताक्षर एवं
दिनांक


RMI	SN GHOSH	अनुवादक	TRANSLATED BY	
MPIC	SHANTANU	निर्माणाकर्ता	WORKED BY	SUSHANT
CHAIRMAN CPSC	R PARTHA SARTHI	जांचकर्ता	CHECKED BY	ANIL KUMAR
सहमत विभाग AGREED DEPT.	नाम NAME	दिनांक एवं हस्ताक्षर DATE & SIGNATURE	पर्यवेक्षणकर्ता SUPERVISED BY	V.K.AGARWAL





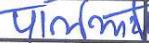



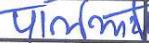



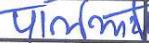
आवक्री सूची संख्या
INVENTORY




APPROVED : PLANT STANDARDS COMMITTEE		
PREPARED : WELDING TECH	ISSUED : WELDING TECHNOLOGY	दिनांक : DATE : 03.08.10


दिनांक एवं हस्ताक्षर SIGN & DATE		संस्थान क्रय विनिर्देश (सी.एफ.एफ.पी - हरिद्वार) PLANT PURCHASE SPECIFICATION (CFFP - HARDWAR)	FF 77184 Rev 03 पृष्ठ का Page 2 of 5		
सुपरसेडिस INVENTORY NO. रामजी सूरी संस्था को अधिकृतित करा	<p>3.6 The gouging holder shall have provision for 360° free revolving movement of the holder around air hose/cable without twisting the air hose/cable for maximum maneuverability.</p> <p>3.7 The gouging electrode holder along with coaxial unitized standard cable and air hose assembly shall be able to work continuously at the maximum current (rated for 100% duty cycle) with 7kg/cm² air pressure without any air leakage through jaws and the air switch of the holder.</p> <p>3.8 The handle lever and handle covers shall be made in tough heat resistant and electrical insulating material and shall be so constructed that no dirt of foreign particles (likely to cause danger by electrical shock) can lodge in joints, holes & other cervices and that the live ends of screws, pins etc can not be exposed in use.</p> <p>3.9 Grip of handle (OD) shall be such that operator can grip it easily and comfortably. The temperature of the grip of the handle shall not exceed 30° C above ambient temperature when continuously used at rated current for 100% duty cycle for 30 minutes minimum.</p> <p>3.10 Spring, if used, shall be insulated electrically so that they do not carry ,welding current unless designed to do so.</p>				
COPYRIGHT AND CONFIDENTIAL The information on this documents is the property of Bharat Heavy Electrical Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company	<p>4. Test Certificate:</p> <p>4.1 Unless otherwise specified, one original and three copies of original manufacturer's test certificates shall be supplied with each consignment bearing the following information. In order to facilitate quick clearance of material, the supplier shall ensure to send a copy of test certificate along with dispatch document (Supplier shall submit test certificates in line with IS2641:1989)</p> <ol style="list-style-type: none"> BHEL PO No. Supplier name/reference Identification No., Batch No. Temperature rise test (Not to exceed 30°C above ambient temperature, when continuously used for 2 hrs. minimum) Insulation resistance Test. High voltage Test. Impact Test. Test for flammability and resistance to heat. <p>4.2 Suppliers other than the original manufacturer shall ensure providing original manufacturer's test certificates with linkage to supplier's invoice stating the batch No., lot No., etc of the supply.</p>				
स्वत्वाधिकार एवं गोपनीयता इस प्रलेख में दी गई सूचना भारत देशी इलेक्ट्रिकल्स की सम्पत्ति है। सुरक्षा प्रयत्न एवं अप्रत्यक्ष रूप से किसी भी तरह प्रयोग, जो कि कंपनी के हित में हानिकारक हो न किया जाए ।					
दिनांक एवं हस्ताक्षर SIGN & DATE					
रामजी सूरी संस्था		निर्माणकर्ता WORKED BY	SUSHANT		06.08.10
		जांचकर्ता CHECKED BY	ANIL KUMAR		06.08.10


दिनांक एवं हस्ताक्षर SIGN & DATE		संस्थान क्रय विनिर्देश (सी.एफ.एफ.पी - हरिद्वार) PLANT PURCHASE SPECIFICATION (CFFP - HARDWAR)	FF 77184 Rev 03 पृष्ठ का Page 3 of 5		
सामग्री सूची संख्या को अधिकृतित करना SUPERSEDES INVENTORY NO.	<p>5.0 Acceptance</p> <p>5.1 For established supplier, who has supplied the designated gouging electrode holder for 2 years continuously giving trouble free service, the item can be accepted on the basis of TC & GC given by the supplier.</p> <p>5.2 CFFP reserve the right to check the gouging electrode holder on surveillance basis for established supplier.</p> <p>5.3 For other suppliers, checking as per CI. No. 3 and shop trial will be required.</p> <p>5.4 Inspection at BHEL is final and will be binding on supplier.</p> <p>6.0 Marking : Each gouging electrode holder shall be marked with the following information. (a) Name of manufacturer, Trademark, If any. (b) Current rating at 100% duty cycle.</p> <p>7.0 Guarantee : The gouging electrode shall be guaranteed for 18 months from the date of receipt.</p> <p>8.0 Packing : Packing should be that of the original manufacturer. Packing should be suitable to avoid any damage during handling.</p> <p>9.0 Special Requirement :</p> <p>(a) The party shall send with offer the gouging holder catalogue/ leaflet giving details of the gouging electrode holder construction and arrangement of holding the gouging cable, in particular.</p> <p>(b) The party shall send quote for all the spares of holder for two years trouble free operation.</p> <p>(c) The party shall provide test certificate (for the test as per clause 4 above) with supply.</p> <p>(d) Party shall submit two copies of operation and maintenance manual along with detailed assembly drawing (in English language) at the time of delivery of gouging electrode.</p> <p>(e) If the material received in CFFP is found not suitable as per clause No. 5 given above. It shall be replaced free of cost by the supplier.</p> <p>10.0 Inspection & Deviation :</p> <p>10.1 BHEL reserves the right to inspect material at site before dispatch. The supplier shall intimate in advance about readiness of material enclosing a copy of test certificate of</p>				
COPYRIGHT AND CONFIDENTIAL The information on this documents is the property of Bharat Heavy Electrical Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company					
स्वत्वाधिकार एवं गोपनीयता इस प्रलेख में दी गई सूचना भारत हेवी इलेक्ट्रिकल्स की सम्पत्ति है। इसका प्रयोग एवं प्रसारण इस से किसी भी तरह प्रयोग, जो कि कंपनी के हित में हानिकारक हो न किया जाए।					
दिनांक एवं हस्ताक्षर SIGN & DATE					
सामग्री सूची संख्या		निर्माणकर्ता WORKED BY	SUSHANT		06-08-10
		जांचकर्ता CHECKED BY	ANIL KUMAR		06-08-10


दिनांक एवं हस्ताक्षर SIGN & DATE		संस्थान क्रय विनिर्देश (सी.एफ.एफ.पी - हरिद्वार) PLANT PURCHASE SPECIFICATION (CFFP - HARDWAR)	FF 77184 Rev 03 पृष्ठ का Page 4 of 5			
सापेक्ष सूची संख्या को अधिकारित करना	COPYRIGHT AND CONFIDENTIAL The information on this documents is the property of Bharat Heavy Electrical Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company.	<p>the material offered for inspection. However inspection at BHEL shall be final. The supplier shall offer BHEL representative all reasonable test facilities without charge to satisfy the latter that the material being furnished is in accordance with this specification. The supplier shall prepare and provide necessary test specimens for testing to be carried out at his premises. If facilities are not available at his works, the supplier shall make necessary arrangements for carrying out the prescribed tests elsewhere.</p> <p>10.2 For any deviation from the specification sought by the supplier, prior approval of BHEL must be obtained in writing.</p>				
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सापेक्ष सूची संख्या			जांचकर्ता CHECKED BY	ANIL KUMAR	<i>Anil</i>	06-08-10




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सामग्री सूची संख्या को अधिकतम करता	SUPERSEDES INVENTORY NO.	WELDING ELECTRODE HOLDER – 600 Amps.																																																	
COPYRIGHT AND CONFIDENTIAL The information on this documents is the property of Bharat Heavy Electrical Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company		<p>1. Application This purchase specification specifies the requirements and tests for welding electrode holder-600 amps, in order to optimize the safety of the welder and to ensure satisfactory condition of use during heavy duty manual electric arc welding on carbon steel and alloy steel castings.</p> <p>2. Compliance with National & International Standard : The welding electrode holder shall be in general as per IS 2641:1989 suitable for current rating up-to 600 Amps at 60% duty cycle use with the characteristics as stated under Technical specifications.</p> <p>3. General</p> <p>3.1 The welding electrode holder shall be suitable for use on circuits with OCV up to and including 100V(rms).</p> <p>3.2 The welding electrode holder shall be suitable to hold electrodes up-to 5 mm diameters and it shall be as light as possible b(weight less than 750 gms).</p> <p>3.3 Design of holder shall be such that under normal condition of service, it shall be possible to weld with electrode in any position of holder until a stub of 40mm remains without damaging the holder.</p> <p>3.4 The welding electrode holder shall have provisions for alternative positions for gripping electrodes to avoid the necessity for bending the electrodes when welding in different positions.</p> <p>3.5 The electrode holder shall be of 'Type B-semi insulated design and construction ' as per IS :2641. The electrode holder including its jaws shall be made from a high copper alloy for maximum conductivity and strength.</p> <p>3.6 The jaws of the holder shall be firmly welded / silver brazed with the holder arms and shall not be joined by brass brazing etc to avoid the chances of separation under over heating of jaws during accidental electrode shorting with the job.</p> <p>3.7 Cable entry to the welding holder shall be so designed that the risk of damage due to continual flexing of cable is kept to minimum. The insulation of the cable shall enter the holder to a depth not less than 50mm and provision shall be made to clamp the cable to avoid any pull to be transmitted to the joint in normal case.</p>																																																	
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SUPERSEDES INVENTORY NO. सामग्री सूची संख्या को अधिकृत करता	<p>3.8 The electrode holder shall have arrangement to accommodate and clamp firmly the welding cable core (of minimum diameter 10 mm) with adequate electrical contact without the use of special tools.</p> <p>3.9 The portion of the lever controlling the clamping device required to be operated during normal use shall be encased in a tough heat resisting insulating material.</p> <p>3.10 Handle of the holder shall be constructed in tough heat resisting insulating material and shall be so conducted that no dirt or foreign particles (likely to cause danger by electric shock) can lodge in joints, holes & other services and that the live ends of screws, pins etc can not exposed in use.</p> <p>3.11 Spring, if used, shall be insulated electrically so that they do not carry welding current unless designed to do so.</p> <p>3.12 The guard shall be at least 4 mm thick and shall project for less than 19 mm around the handle to give reasonable protection to exposed spring , if any, and hand form radiated heat & spatter band also to allow the holder with cable connected to be laid on a flat surface without any live part of the holder touching surface.</p>				
COPYRIGHT AND CONFIDENTIAL The information on this documents is the property of Bharat Heavy Electrical Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company	<p>4. Test Certificates</p> <p>4.1 Unless otherwise specified, one original and three copies of original manufacturer's test certificates shall be supplied with each consignment bearing the following information. In order to facilitate quick clearance of material, the supplier shall ensure to send a copy of test certificate along with despatch document. Supplier shall submit test certificates in line with IS2641:1989)</p> <ol style="list-style-type: none"> BHEL PO No. Supplier name/reference Identification No., Batch No. Temperature rise test (Not to exceed 30°C above ambient temperature, when continuously used for 2 hrs. minimum) Insulation resistance Test. High voltage Test. Impact Test. Test for flammability and resistance to heat. <p>4.2 Suppliers other than the original manufacturer shall ensure providing original manufacturer's test certificates with linkage to supplier's invoice stating the batch No., lot No., etc of the supply.</p>				
स्वाधिकार एवं गोपनीयता इस प्रलेख में दी गई सूचना भारत हेवी इलेक्ट्रिकल्स की सम्पत्ति है इसका प्रत्यक्ष एवं अप्रत्यक्ष रूप से किसी भी तरह प्रयोग, जो कि कंपनी के हित में हानिकारक हो न किया जाए ।					
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सामग्री सूची संख्या		निर्माणकर्ता WORKED BY	SUSHANT		06-08-10
		जांचकर्ता CHECKED BY	ANIL KUMAR		06-08-10

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सामग्री सूची संख्या को अधिकृतित करना	SUPERSEDES INVENTORY NO.	<p>5.0 Acceptance</p> <p>5.1 For established supplier, who has supplied the designated gouging electrode holder for 2 years continuously giving trouble free service, the item can be accepted on the basis of TC & GC given by the supplier.</p> <p>5.2 CFFP reserve the right to check the gouging electrode holder on surveillance basis for established supplier.</p> <p>5.3 For other suppliers, checking as per Cl. No. 3 and shop trial will be required.</p> <p>5.4 Inspection at BHEL is final and will be binding on supplier.</p> <p>6.0 Packing and Marking</p> <p>Packing should be that of the original manufacturer. Packing should be suitable to avoid any damage during handling, transit and storage. Each holder shall be marked with</p> <ol style="list-style-type: none"> Name of manufacturer, Trade mark if any. IS Number & Mark. Current Rating. <p>7. Guarantee</p> <p>The supply should be guaranteed for 24 months from the date of receipt.</p> <p>8. Special Requirements:</p> <ol style="list-style-type: none"> The party shall send with offer the electrode holder catalog / leaflet giving details of the electrode holder construction and arrangement of holding the welding cable, in particular. The party shall send quote for all spares of holder for two years trouble free operation. The party shall send with offer the list of the industries with address to whom electrode holder are supplied earlier. Party shall submit two copies of the operation and maintenance manual along with detailed assembly drawing (in English language) at the time of delivery of welding holder. <p>9. Inspection, Deviation and Replacement:</p> <p>9.1 BHEL reserves the right to inspect material at site before despatch. The supplier shall intimate in advance about readiness of material enclosing a copy of test certificate of the material offered for inspection. However inspection at BHEL shall be final. The supplier shall offer BHEL representative all reasonable test facilities without charge to satisfy the latter that the material being furnished is in accordance with this specification. The supplier shall prepare and provide necessary test specimens for testing to be carried out at his premises. If facilities are not available at his works, the supplier shall make necessary arrangements for carrying out the prescribed tests elsewhere.</p>									
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सामग्री सूची	SUPERSEDES INVENTORY NO.	RECORD OF CHANGES			
COPYRIGHT AND CONFIDENTIAL The information on this documents is the property of Bharat Heavy Electrical Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company	REV CODE	NO. OF CHANGES	NATURE OF CHANGE	SIGN	DATE
	01		Sketch of holder parts added		18.1.02
	02		Clause 6 & 7 modified to incorporate original manufacturer's test certificate and packing conditions		14.9.09
	03		Specification is prepared in standard format. Complete specification is rewritten.		03.08.10
स्वात्वाधिकार एवं गोपनीयता इस प्रलेख में दी गई सूचना भारत हेवी इलेक्ट्रिकल्स की सम्पत्ति है इसका प्रत्यक्ष एवं अप्रत्यक्ष रूप से विक्रय भी तदर्थ प्रयोग, जो कि कंपनी के हित में अधिकारक से है किया जाना	DISTRIBUTION OF PRINTS				
दिनांक एवं हस्ताक्षर SIGN & DATE	RMI		✓		
	STANDARD SECTION		✓		
	MPIC		✓		
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		03	Clause 4 & 8 modified to incorporate original manufacturer's test certificate and packing conditions		Sheet No. 2 & 3		03.08.10
			Clause 5.0 & 10.0 added about acceptance, inspection & deviation		Sheet No. 3 & 4		03.08.10
			Clause 8 (e) omitted		Sheet No. 3		03.08.10
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		RMI	✓				
		STANDARD SECTION	✓				
		MPIC	✓				
हस्ताक्षर एवं दिनांक		निर्माणकर्ता WORKED BY	SUSHANT		06.08.10		
सामग्री सूची संख्या		जांचकर्ता CHECKED BY	ANIL KUMAR		06.08.10		