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SubContract and Purchase
Department.

भारत हेवी इलेक्ट्रिकल्स लिमिटेड

(भारत सरकार का उपक्रम)

BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

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E-TENDER ENQUIRY NO. & DATE

BHEL/PSNR/SCP/AI/E-2786 (E-Tender)
DATE: 02.04.2016

DUE DATE & TIME OF TENDER SUBMISSION

11.04.2016 AT 13:30 HRS

DUE DATE & TIME OF OPENING OF TENDER

11.04.2016 AT 15:30 HRS

TENDER ENQUIRY

BHEL Power Sector, Northern Region invites sealed quotation for the following Store from **Manufacturers/ Suppliers** in **two part bid** system **THROUGH E-PROCUREMENT PORTAL** <https://bheleps.buyjunction.in> ONLY;

DESCRIPTION OF STORE	DESTINATION FOR SUPPLY
SUPPLY OF CHEMICALS (COROBAN CB or CORONIL 92 B or RODINE 92 B or ACIBITOR 92 B) AS PER TECHNICAL SPECIFICATION - PART 'B'	BHEL-BARA SITE
DELIVERY SCHEDULE :	<p>The delivery of material shall be within THREE (03) weeks from the date of dispatch clearance given by BHEL to Vendor.</p> <p>Vendor to note the following activities which are to be completed within the delivery period of three weeks;</p> <ol style="list-style-type: none">Test sample of material to be send to BHEL Trichy lab for testing and submission of Test Certificate obtained from BHEL Trichy & Manufacturing Test Certificate to BHEL-PSNR for issuing MDCC within one week from date of dispatch clearance. Based on Test Results, BHEL shall issue the MDCC.Dispatching the material to BHEL-Bara site (after obtaining the MDCC from BHEL) within next two weeks from issue of MDCC.However, in any case total delivery period shall be limited to three weeks from the date of dispatch clearance.

DELIVERY REQUIRED AT - CONSIGNEE:

CONSTRUCTION MANAGER,
BHEL SITE OFFICE, PPGCL (BARA SITE), 3x660 MW, BARA STPP, P.O. - LOHGARA,
TEHSIL: BARA, DISTT: ALLAHABAD , UP

IMPORTANT NOTE:

This is an E-tender floated online through our E-Procurement Site <https://bheleps.buyjunction.in>. The bidder should respond by submitting their offer online only in

TENDER NO: BHEL/PSNR/SCP/AI/E-2786 (E-Tender) DATE: 02.04.2016 DUE DATE: 11.04.2016
*our e-Procurement platform at <https://bheleps.buyjunction.in>. Offers are invited in two-parts only. No Hard copy bid or bids through email/ fax shall be accepted. Bids are invited in two parts & shall be submitted as described below. **No hard copy of Bid or bids through email/fax/courier/post shall be accepted.***

The Tender Document comprise of following;

- 1. PART – ‘A’ : QUALIFYING REQUIREMENTS (QR)**
- 2. PART – ‘B – I & II ’ : TECHNICAL SPECIFICATIONS**
- 3. PART – ‘C’ : SPECIAL CONDITIONS OF CONTRACT (SCC)**
- 4. PART – ‘D’ : UNPRICE FORMAT**
- 5. PART – ‘E’ : PRICE SCHEDULE**
- 6. GENERAL CONDITIONS OF CONTRACT (GCC) – Rev. – 00 Dtd. 24.8.2015
(Page 1 – 30, separately enclosed)**

QUALIFYING REQUIREMENTS (QR)

1. Bidders must have supplied any of the following Chemical as specified below to any company in last 2 years from the Tender Enquiry date:

1. COROBAN CB
2. CORONIL 92 B
3. RODINE 92 B
4. ACIBITOR 92 B

Bidder to enclose copies of relevant P.O.

2. (i) BIDDER SHOULD HAVE A MINIMUM AVERAGE ANNUAL TURNOVER DURING LAST THREE (03) FINANCIAL YEARS -i.e. Min.Rs. 4.90 Lacs

(ii) BIDDER MUST HAVE EARNED CASH PROFIT IN ANY ONE OF THE LAST (3) THREE FINANCIAL YEARS.

NOTE - 1:

1. Bidder to submit Audited Balance Sheet and Profit and Loss Account of the Company for last (3) three Financial Years in support of Sl. No. 2 (i) and 2 (ii) as above.
2. Bidders who does not meet financial criterion by itself & submits his bid based on the financial strength of his ,case b1-Promoter Company or case b2-Parent/ ultimate parent/ holding company , then following documents needs to be submitted on case to case basis:

A. Audited Balance Sheet and Profit & Loss Account of the promoter/parent/ ultimate parent/ holding company for the last three (03) financial Years. (Applicable in both cases)

B1. In case bidder is a subsidiary company (should be a 100% subsidiary of the parent/ultimate parent/holding company)

Corporate guarantee on promoter company's letter head signed by an authorized official undertaking that they would financially support the newly formed company for executing the project/ job in case the same is awarded to them.

OR

B2. In case bidder is a subsidiary company (should be a 100% subsidiary of the parent/ultimate parent/holding Company) then documents needs to be submitted:

Corporate guarantee on parent/ ultimate parent/ holding company's letter head signed by an authorized official undertaking that they would financially support their 100% subsidiary company for executing the project/ job in case the same is awarded to them.

NOTE - 2:

- a. In case annual accounts of last Financial Year are not audited, then bidder should submit the audited account of previous three Financial Years.

- b. In case audited annual accounts have not been submitted for all three years as indicated above, then applicable audited annual accounts as submitted by the bidder against the requisite three years will be averaged for three years.**
- 3. Bidders technically and commercially accepted are subject to the final vendor approval from BHEL – Trichy.**

PART – 'B - I'**TECHNICAL SPECIFICATIONS**

S.No.	SPECIFICATION		
1.0	Item Description	Unit	Quantity
1.1	COROBAN CB <i>or</i> CORONIL 92 B <i>or</i> RODINE 92 B <i>or</i> ACIBITOR 92 B	Litre	1,150
2.0	SPECIAL CONDITIONS:		
2.1	<p>The inhibitor must be liquid and completely soluble in water and in mono ammonium citrate of the following composition:</p> <p style="text-align: center;"> Citric acid concentration : 3.0 – 4.0 % w/v pH using Ammonia : 3.5 to 4.0 Inhibitor concentration : 0.3 % v/v Temperature : 85 – 90 deg C Time : 4 hrs </p>		
2.2	The inhibitor should meet the metal loss less than 1.0 g / m ² / h for the above solvent formation.		
2.3	Test Procedure as per Annexure : Part – 'B – II')		
2.4	<u>SHELF-LIFE:</u> should be minimum 6 months for all chemicals from the date of supply/dispatch of chemicals		

NOTE:

1. The materials being offered should be strictly as per the above specification.
2. Supply quantity tolerance is + 2%.

TECHNICAL SPECIFICATIONS

(Test Procedure)

**INHIBITOR EVALUATION TEST FOR CHEMICAL CLEANING
SOLUTIONS AT TEMPERATURES BELOW 93 C**

This test method consists of procedure wherein the corrosivity of solvent systems is determined by weight loss method experienced by metal specimen during exposure to solvent systems like DiAmmonium EDTA, Citric acid, Hydrochloric acid.

Test Method:

Test specimens may be flat coupons, either rectangular or circular in shape, or rod or tubular material. Regardless of form, final specimen should have a minimum surface area (including edges and ends), of 38.7 cm² (6 in²).

Specimen preparation:

Tube sampled for determination of metal loss shall be of the same material as that used in the steam generating plant. Cut specimens (from water wall / evaporator) by sawing, or milling. Perform final grinding to white metal finish of all sides (inside and outside for ring tubes) of the specimens. Final polishing to be done with 120 – grit silicon carbide cloth.

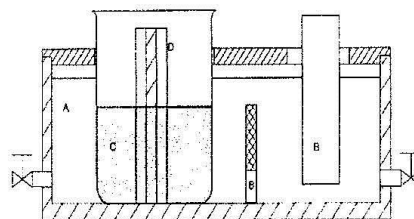
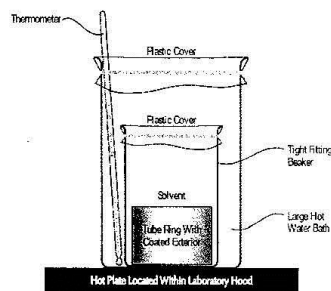
Final sample coupon preparation:

- Degrease by immersion on acetone
- Pickle with uninhibited hydrochloric acid (HCl 1:1) at room temperature for 10 minutes.
- Neutralize by immersion in hot saturated sodium bicarbonate (NaHCO₃) solution.
- Rinse with DM water
- Dry with acetone and weigh specimen to ± 0.1 mg after cooling and store in a desiccator until ready for use.



Testing:

- Prepare the testing solution of about 500 ml in a beaker such that the **acid solvent concentration, pH and the inhibitor concentration are the same as that of actual chemical cleaning / as specified in approved chemical cleaning procedure.** Typically
- For Di-Ammoniated EDTA cleaning: Acid concentration as EDTA: 4.0 %W/W, pH- 5.5 – 6.5, Inhibitor: 0.3% v/v)
- For Mono Ammoniated Citric acid cleaning: Acid concentration as citric acid:3.0-4.0 %W/V, pH- 3.5 – 4.0, Inhibitor: 0.3% v/v)
- For HCl cleaning: Acid concentration as HCl: 5.0 %W/W, Inhibitor: 0.2 % v/v)
- The test vessel (beaker) size is based on the sample coupon size and the specific coupon surface area to solution volume ratio that is to be maintained for the test for drum type boiler s/v ratio of $0.6\text{cm}^2/\text{cm}^3$ and for once through boiler S/V ratio of $1.3\text{cm}^2/\text{cm}^3$ are preferable. Additional volume of about 20 to 30ml may be considered for taking care of the evaporation losses. The beaker without spout is preferable so that evaporation of solvent during testing can be minimized by sealing the beaker as shown.





- Take required quantity of solvent solution in the test vessel (beaker) To keep the acid solution temperature at constant level, the test vessel is immersed into a temperature controlled water bath and allow it to equilibrate to the desired test temperature range.
- The coupon should not be added to the test vessel containing the solution until the solution reaches the desired temperature. After the test temperature has been reached, totally immerse the coupon in the solution, in such a fashion that the solvent has maximum access to the coupon surfaces.
- The specimens shall not come into contact with each other.
- From time to time, the acid solution shall be stirred by hand by means of glass rod.
- The temperature pattern of the acid solution in the specimen vessel shall be adopted to the solution temperature of actual cleaning.
- The duration of the test period is decided in such a way to duplicate the cleaning procedure or 6 hours
- After the testing period, the sample coupon is taken out, rinsed with DM water and acetone. Cool and weigh.
- Calculate the weight loss in g and total surface area of the specimen and calculate the metal loss as $g / m^2 / h$

Acceptance criteria:

For the metal loss for pre-operational chemical cleaning, the following maximum value can be adhered.

Cleaning agent	Metal loss
EDTA / HCl / Citric acid	1.0 g /sq. m / h

If the metal loss for the inhibitor evaluation test is less than the above, then the inhibitor is acceptable for respective chemical cleaning

The inhibitor must be **liquid** and **completely soluble in the solvent of above specified composition**

Note: 1. The materials being offered should be strictly as per the above Test procedure.

PART 'C'**SPECIAL CONDITIONS OF CONTRACT (SCC)****1.1 IMPORTANT NOTES:**

This is an E-tender floated online through our E-Procurement Site <https://bheleps.buyjunction.in>.

Offers are invited in Two parts only. The bidder should respond by submitting their offer online only in our e-Procurement platform at <https://bheleps.buyjunction.in>.

No hard copy of Bid or bids through email/fax/courier/post shall be accepted.

Bids are invited in two parts & shall be submitted as described below:

OFFER DESCRIPTION	DOCUMENTS TO BE UPLOADED & MODALITY OF UPLOADING DOCUMENTS	
TECHNICAL OFFER	1-	<i>Scanned copy of Covering Letter of Offer.(To be attached in Attachment section)</i>
	2-	<i>Scanned copy of Entire Tender document signed & stamped on each page by authorized representative of the bidder except price schedule PART-"E"(To be attached in Attachment section) <i>NOTE: Signing of tender document shall be considered proof of acceptance of all the terms and conditions including technical requirements/specifications, techno-commercial conditions etc. of tender enquiry.</i></i>
	3-	<i>Duly filled UNPRICE FORMAT,PART-"D"(To be attached in Attachment section)</i>
	4-	<i>Duly filled ,signed & stamped ANNEXURES except Unprice format and Price Schedule (To be attached in Attachment section)</i>
	5-	<i>All supporting documents/Annexures etc. as applicable .(To be attached in Attachment section)</i>
	6-	<i>No deviation certificate in bidders letterhead as per format given in GCC.(To be attached in Attachment section)</i>
PRE-QUALIFICATION PART	7-	<i>Pre-qualifying documents as per Tender(To be attached in PQ Attachment section)</i>
PRICE BID	8-	<i>Duly filled in Price Schedule as per Tender (To be attached in price bid Attachment section) Any other document uploaded in the price bid, as per tender format, shall not be taken into cognizance for evaluation of offer.</i>

Note: Bids are liable for rejection, if documents are not found attached as indicated above.

1.2 SCOPE OF WORK:

a) Supply of Chemicals to BHEL BARA Site on F.O.R. Destination Basis

2. PRICE BASIS:

FIRM PRICE, Price in INR should be quoted for F.O.R. destination, delivery at BHEL site Office, BARA, UP .

3. EVALUATION CRITERIA:

Tenders will be evaluated based on the Net cost to BHEL as indicated in Price Bid (PART-"E") of Tender. However order shall be placed on the Total F.O.R. site price.

NOTE REGARDING PRICE BID (PART – "E"): Bidders are requested to quote for each and every item as indicated above on F.O.R. Destination basis - all inclusive price (i.e. inclusive of all taxes & Duties). No hidden charges shall be accepted (in the form of statements like on A/c. of BHEL/in your account/unknown etc.), the same shall be construed as in account of vendor/bidder and treated as "NIL" w.r.t. amount payable by BHEL.

4. ROAD PERMITS ::

BHEL's shall issue ROAD PERMITS/E-sancharan, wherever applicable, to the supplier. Vendor shall submit the road permits complete in all respect as per relevant state requirement.

5. TAXES AND DUTIES:

5A) Price quoted should be inclusive of all the applicable charges, Taxes and Duties. However rates of Sales Tax/VAT, Excise Duty & other statutory levies should be indicated separately, if applicable. Variation in Excise Duty, Sales Tax/ Vat or any other statutory levies during contractual delivery period shall be to BHEL's account.

5B) Form "C" shall not be issued. Vendor to mention rate accordingly.

5C) EXCISE DUTY ACTUALLY INCURRED BY SELLER/CONTRACTOR ON SELF-MANUFACTURED ITEMS AGAINST THE DISPATCH MADE FROM HIS FACTORY/WORKS CONSTITUTING A SALE UNDER THE ORDER, ALONE SHALL BE REIMBURSED AT ACTUALS AGAINST REQUISITE DOCUMENTARY EVIDENCE. THE INVOICE CUM EXCISE DUTY GATE PASS (EXCISE INVOICE) SHOULD CONTAIN THE NAME OF ULTIMATE CONSIGNEE AS SPECIFIED IN THE ORDER. NO EXCISE DUTY SHALL BE PAYABLE BY PURCHASER ON INPUTS, BOUGHT OUT ITEMS, RAW MATERIALS AND COMPONENTS CONSIGNED DIRECTLY TO SITE FROM SOURCES OTHER THAN SELLER/CONTRACTOR'S FACTORY OR WORKS. HENCE CENVAT BENEFIT DURING EVALUATION OF PRICE SHALL BE CONSIDERED IN THE FOLLOWING CASES WHERE:

- i. INVOICE ISSUED BY MANUFACTURER/FIRST STAGE DEALER AND SECOND STAGE DEALER AS PER THE PROVISION OF RULE 11 OF CENTRAL EXCISE RULES, IS ALSO DECLARED AS DUTY PAYING DOCUMENT FOR THE PURPOSE OF ALLOWING CENVAT CREDIT UNDER RULE 9 OF CENVAT CREDIT RULES, 2004. IT IS NOTED THAT INVOICE ISSUED BY REGISTERED DEALER SHALL BE PREPARED IN TRIPLICATE AND INDICATE AT THE TOP OF THE INVOICE IN BOLD CAPITAL LETTERS AS "FIRST STAGE DEALER" OR "SECOND STAGE DEALER".
- ii. IN CASE GOODS ARE PURCHASED THROUGH A DEALER BUT THESE ARE DESPATCHED BY SUPPLIER MANUFACTURER DIRECTLY TO THE FACTORY OF BUYER. IN SUCH CASE, CENVAT IS AVAILABLE TO BUYER IF INVOICE IS IN THE NAME OF DEALER BUT NAME OF

BUYER IS SHOWN AS CONSIGNEE. THIS TERMED AS TRANSIT INVOICE WHERE INVOICE IS IN NAME OF DEALER WITH NAME OF BUYER-MANUFACTURER AS CONSIGNEE.

- iii. IN CASE GOODS ARE DISPATCHED FROM THE GODOWN OF FIRST STAGE DEALER OR SECOND STAGE DEALER, THE CREDIT OF DUTY ON INPUTS OR CAPITAL GOODS PURCHASED FROM FIRST STAGE DEALER OR SECOND STAGE DEALER SHALL BE ALLOWED ONLY IF THE SAID DEALER HAS MAINTAINED RECORDS INDICATING THE FACT THAT THE INPUTS OR CAPITAL GOODS WERE SUPPLIED FROM STOCK ON WHICH DUTY WAS PAID BY MANUFACTURER OF SUCH GOODS AND ONLY AN AMOUNT OF SUCH DUTY HAS BEEN INDICATED IN THE INVOICE ISSUED BY HIM. (REF: CIRCULAR NO. 689/5/2003-CX DATED 14.01.2003).
- iv. IN CASE SUPPLIER FAILS TO SUBMIT THE REQUISITE AND APPROPRIATE CENVATABLE INVOICE IN FAVOUR OF BHEL WITH CENVAT CREDIT EQUAL TO THE AMOUNT OFFERED BY THEM IN THEIR QUOTE, THE SAME SHALL NOT BE PAYABLE.

QUOTED RATES SHALL REMAIN FIRM EXCEPT FOR VARIATION IN DUTIES/TAXES AS MENTIONED AT SERIAL NO. 5-A ABOVE.

6. INSPECTION AND TESTING:

- A. BHEL may inspect the material at Vendor's premises before dispatch. However Final Inspection/Testing will be done at Site. Supplier has to send a copy of Test Certificates and need to obtain Dispatch Clearance from BHEL before dispatch of Material/Store. **Test sample to be send to BHEL-Trichy Lab (at supplier cost) for testing. Based on the test result, dispatch clearance will be given.**

MATERIALS FOUND DEFECTIVE/UNACCEPTABLE AT THE TIME OF DELIVERY/ACTUAL USAGE SHOULD BE REPLACED FREE OF COST/WITHOUT ANY EXTRA COST AND THE DECISION OF BHEL/BHEL'S CUSTOMER IN THIS REGARD SHALL BE TREATED AS FINAL.

- B. DISPATCH CLEARANCE HAS TO BE TAKEN BY VENDOR FROM BHEL – PROJECTS DEPT. BEFORE DISPATCH.
- C. The material being offered should be strictly as per Tender Specification. The material supplied should confirm to latest Indian Standard Specification or B.I.S. as applicable. The supplier shall send the Manufacturer Test Certificate along with each consignment and all charges to this account will be borne by the supplier.
- D. The material supplied should be suitably supplied in standard packing of drum/containers/bags with suitable marking depicting Chemical Name, Manufacturing AND/OR Expiry Date, Lot No./Batch No. etc. on each and every bag (as applicable).

7. DELIVERY:

The delivery of material shall be within THREE (03) weeks from the date of dispatch clearance given by BHEL to Vendor.

Vendor to note the following activities which are to be completed within the delivery period of three weeks;

- I. Test sample of material to be send to BHEL Trichy lab for testing and submission of**

Test Certificate obtained from BHEL Trichy & Manufacturing Test Certificate to BHEL-PSNR for issuing MDCC within one week from date of dispatch clearance. Based on Test Results, BHEL shall issue the MDCC.

- II. Dispatching the material to BHEL-Bara site (after obtaining the MDCC from BHEL) within next two weeks from issue of MDCC.
- III. However, in any case total delivery period shall be limited to three weeks from the date of dispatch clearance.

CONSIGNEE:

The material will be consigned to CONSTRUCTION MANAGER, BHEL SITE OFFICE, PPGCL (BARA SITE), 3x660 MW, BARA STPP, P.O. - LOHGARA, TEHSIL: BARA, DISTT: ALLAHABAD , UP

NOTES:

1. In case delivery period quoted by the bidder is not accepted by BHEL, then BHEL shall reject their offer.
2. DATE OF DISPATCH of Material shall be considered as the date of Delivery i.e. LR/GR/RR date. Bidders are requested to arrange the transporter and dispatch the goods on our behalf on freight pre-paid basis. Goods to reach at destination within reasonable time say 10 days.
3. The supplier shall transport the material on behalf of BHEL to destination site within quoted rates.

8. TRANSIT INSURANCE:

Transit Insurance of material is in Supplier's scope.

9. VALIDITY OF OFFER: As per clause 7.0 of Instruction to Bidders of GCC.

10. PAYMENT TERMS:

As per clause 9.1 of GCC-GENERAL COMMERCIAL TERMS & CONDITIONS.

11. BILLING DOCUMENTS: As per clause 9.4.1 of General Commercial Terms & Conditions of GCC.

12. PERFORMANCE BANK GUARANTEE & EMD: Not applicable.

13. PAYING AUTHORITY: CONSTRUCTION MANAGER – BHEL-PSNR / BARA SITE

14. GUARANTEE / WARRANTY:

The material supplied will be warranted against any manufacturing defect or such defects arising out of bad workmanship or bad design, not otherwise for a period of 18 months from date of supply or 12 months from date of commissioning, whichever is earlier.

15. DOCUMENTS REQUIRED ALONG WITH DISPATCH OF MATERIAL:

The following documents are required with dispatch:

1. Original Invoices (EXCISABLE INOVICES IF APPLICABLE)
2. LR/GR
3. Original Test Certificates
4. Dispatch Clearance issued by BHEL.
5. SHELF LIFE CERTIFICATES
6. Test Report from Trichy & TC
7. MSDS

8. ROAD PERMITS / E-sancharan

16. MSE BIDDER: As per clause **11** of Instruction to Bidders of GCC.

17. REVERSE AUCTION: As per clause **10** of Instruction to Bidders of GCC.

18. UNLOADING OF MATERIAL : Unloading of material at Destination/ Site shall be in BHEL's scope

19. ORDER OF PRECEDENCE:

In case of contradiction / conflict, the order of precedence shall be in the order as per clause **24** of General Commercial Terms & Conditions of GCC.

PART - 'D' : UNPRICE FORMAT [separately enclosed]

PART – 'E' : PRICE SCHEDULE [separately enclosed]

**GENERAL CONDITIONS OF CONTRACT (GCC) – Rev. – 00 Dtd. 24.8.2015
(Page 1 – 30, separately enclosed)**