

Volume – I

Tender Notification for

SUPPLY OF CHEMICAL EARTHING KITS IN BRPL

CMC/BR/22-23/RB/PR/RJ/0982

Due Date for Submission of Bids: 07.03.2022

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Section – I

REQUEST FOR QUOTATION

Tender Notification: CMC/BR/22-23/RB/PR/RJ/0982

Procurement of Chemical Earthing Kit in BRPL

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SECTION – I: REQUEST FOR QUOTATION**1.0 Event Information**

1.01 BRPL invites sealed tenders for supply of Chemical Earthing Kits from the manufacturers. The bidder must qualify the technical requirements as specified in clause 2.0 stated below. The sealed envelopes shall be duly super scribed as — **“BID FOR SUPPLY OF CHEMICAL EATHING KITS FOR VARIOUS SITES OF BRPL ,TENDER NOTICE CMC/BR/22-23/RB/PR/RJ/0982 DUE FOR SUBMISSION ON DT. 07.03.2022”**.

| Sl. No. | Item Description | Specification | Requirement | Estimated Cost |
|--------------------|--|---------------|-------------|----------------|
| | | | Total Qty. | |
| BRPL, DELHI | | | | |
| 1 | Chemical Earthing Kits for Various Sites in BRPL | SECTION V | 14560 Nos. | 3.60 Crs |

Note: Quantity may vary to any extent of +/- 30% of above mentioned total quantity.

1.02 The schedule of specifications with detail terms & conditions can be obtained from address given below against demand draft/Pay Order of **Rs.1180/- with GST-**, drawn in favour of **BSES RAJDHANI POWER LTD**, payable at New Delhi. The sale of tender documents will be issued from **15.02.2022** onwards on all working days upto **07.03.2022**. The tender documents can also be downloaded from the website **“www.bsesdelhi.com”**.

In case tender papers are downloaded from the above website, then the bidder has to enclose a demand draft covering the cost of bid documents as stated above in a separate envelope with suitable superscription —**“Cost of Bid Documents: Tender Notice Ref: CMC/BR/22-23/RB/PR/RJ/0982”**.This envelope should accompany the Bid Documents.

1.03 Offers will be received upto **1530 Hrs. on dt. 07.03.2022** as indicated earlier and will be opened at the address given below dt. **07.03.2022 at 1600 Hrs.** in the presence of authorized representatives of the bidders. The schedule of specifications with detail terms & conditions are enclosed. It is the sole responsibility of the bidder to ensure that the bid documents reach this office on or before the due date.

**HEAD OF THE DEPARTMENT, 1st FLOOR, ‘C’ BLOCK,
CONTRACTS & MATERIALS DEPARTMENT, BSES RAJDHANI POWER LTD,
BSES BHAWAN,
NEHRU PLACE, NEW DELHI-110019.**

1.04 BRPL reserves the right to accept/ reject any or all Tenders without assigning any reason thereof and alter the quantity of materials mentioned in the Tender documents at the time of placing purchase orders. Tender will be summarily rejected if:

- i) Earnest Money Deposit (EMD) @ 2% (Two percent) of the Tender value i.e. **Rs. 7,20,000/-** is not deposited in shape of Bank Draft in favour of BSES RAJDHANI POWER LTD, payable at New Delhi or Bank Guarantee executed on favour of BSES RAJDHANI POWER LTD.
- ii) The offer does not contain “FOR, NEW DELHI price indicating break-up towards all taxes & duties”.
- iii) Complete Technical details are not enclosed.
- iv) Tender is received after due time due to any reason.

1.05 BRPL reserves the right to reject any or all bids or cancel/ withdraw the invitation for bids without assigning any reason whatsoever and in such case no bidder/ intending bidder shall have any claim arising out of such action time of placing purchase orders.

2.0 Qualification Criteria:-

The prospective bidder must qualify all of the following requirements to be eligible to participate in the bidding. Bidders who meet following requirements will be considered as successful bidder and management has a right to disqualify those bidders who do not meet these requirements.

- 1) The bidders must have the manufacturing in India for Chemical Earthing Kits. The bidders must be a manufacturer of Chemical Earthing Copper bonded rod and must possess valid Type test report carried out at ERDA/CPRI with in last 5 Years from the date of bid opening. In case type test reports are older than five (5) years from the date of bid opening, bidder shall submit the undertaking that there is “since the last type test, the product has not undergone any change in design and the materiel used and the dimensions of the product are the same as the one on which the type test was conducted”. Non submission of type test reports will lead to rejection of the offer. Type test reports older than ten (10) years shall not be acceptable in any case and bid is liable for rejection.
- 2) Bidder shall possess valid test Certificates of Chemical earthing Compound carried out at NABL Accredited Lab.
- 3) The bidder shall have servicing , repairing, testing & refurbishment facility in INDIA with necessary spares and testing equipment for providing prompt after sales service for Chemical Earthing Kit. Details of the set-up available shall be brought out in the offer, failing which the offer will be rejected. The bidder shall submit undertaking along with the bid confirming compliance to the qualifying criteria.
- 4) The bidder should have qualified technical and dedicated QA personnel at various stages of manufacture & testing, documentary proof –Quality Manual, Charts and Undertaking shall be furnished in support of this requirement .

- 5) The bidder should have plant installed capacity to supply minimum 2000 nos of Chemical Earthing Kit per month and for which bidder should submit a self undertaking
- 6) The Bidder should have supplied at least 3000 Nos of Chemical Earthing Kit to any major utilities/SEB's/ Reputed Company in last 5 years, for which P.O. copy and invoices/completion certificates shall be provided in support of the same.
- 7) Bidder should have Average Annual Sales Turnover of Rs 4.5 Crores or more in last 3 financial Years . Balance sheet shall be submitted in support of this requirement
- 8) The bidder should possess valid ISO 9001:2015 certification and must possess UL 467 Certificate.
- 9) In case of new bidder , Factory Inspection & evaluation shall be carried out to ascertain bidders manufacturing capabilities and quality procedures. BRPL reserves the right to assess the capabilities /installed capacity
- 10) The Bidder shall submit an undertaking that “No Litigation” is pending for the company .
- 11) An undertaking (self-certificate) that the bidder has not been blacklisted/debarred by any central/state government institution including electricity utilities
- 12) The bidder must have valid PAN No., GST Registration Number, in addition to other statutory compliances. The bidder must submit copies of registrations and submit an undertaking that the bidder shall comply all the statutory compliances as per the laws/rules etc.

3.0 Bidding and Award Process

Bidders are requested to submit their questions regarding the RFQ or the bidding process after review of this RFQ. BRPL response to the questions raised by various bidders will be distributed to all participating bidders through website.

a. Time schedule of the bidding process

The bidders on this RFQ package should complete the following within the dates specified as under:

| S.No. | Steps | Activity description | Due date |
|-------|-------------------|----------------------------|---|
| 1 | Technical Queries | All Queries related to RFQ | On or before 01.03.2022 1500 Hrs. |

| | | | |
|---|--------------------------|--|-------------------------|
| 2 | Technical Offer | Documentary evidence in support of qualifying criteria. Technical Literature/ GTP/ Drawings/ Type test report, if any, etc., Testing facilities, any other relevant document, acceptance to commercial terms & conditions viz. delivery Schedule/ Period, Payment terms, PBG etc. Quality assurance plan, Deviation from the specification, list of plant & machinery and testing equipments Unpriced items. | 07.03.2022, 1530 Hrs |
| 3 | Commercial Offer | Prices for Power Transformer and Break up regarding basic price and taxes. Delivery commitment | 07.03.2022, 1530 Hrs |
| 4 | Opening of technical bid | As per RFQ | 07.03.2022, 1600 Hrs |

This is a two part bid process. Bidders are to submit the bids (a) Technical Bid (b) Price Bid. Both these parts should be furnished in separate sealed covers superscribing with specification no., validity etc, with particulars as **Part-I “Technical Particulars & Commercial Terms & Conditions”** and **Part-II “Financial bid”** and these sealed envelopes should again be placed in another sealed cover which shall be submitted before the due date & time specified.

Bidders are requested to submit the bid in one original plus one copy in duplicate.

- **The Part-I (Technical Bid)** - Technical Bid should not contain any cost information whatsoever. In case of Bids where the qualification requirements, technical suitability and other requirements are found to be inadequate, Part-II “Financial Bid” will be returned unopened.
- **The Part-II (Financial Bid)** - Qualified bidders will be intimated after technical evaluation of all the bids is completed. The date and time of same shall be intimated in due course to the qualified bidders. Notwithstanding anything stated above, the Purchaser reserves the right to assess bidder’s capability to perform the contract, should the circumstances warrant such assessment in the overall interest of the purchaser. In this regard the decision of the purchaser is final.

4.0 Award Decision

Purchaser intends to award the business on a lowest bid basis, so suppliers are encouraged to bid competitively. The decision to place purchase order / letter of acceptance solely depends on purchaser on the cost competitiveness across multiple lots, quality, delivery and bidder’s capacity, in addition to other factors that Purchaser may deem relevant.

The purchaser reserves all the rights to award the contract to one or more bidders so as to meet the delivery requirement or nullify the award decision without any reason.

BSES reserves the right to split the tender quantity amongst techno commercially qualified bidders on account of delivery requirement in tender, quantity under procurement etc.

Splitting of tender quantity amongst more than one bidder shall be governed by below mentioned guidelines:

- If the quantity is to be split among 2 bidders, it will be done in the ratio of 70:30 on L1 price.
- If the quantity is to be split among 3 bidders, it will be done in the ratio of 60:25:15 on L1 price.
- In case quantity needs to be distributed and order splitting is required, distribution of quantity shall be maximum among three (3) bidders.

In the event of your bid being selected by purchaser (and / or its affiliates) and your subsequent DEFAULT on your bid; you will be required to pay purchaser (and / or its affiliates) an amount equal to the difference in your bid and the next lowest bid on the quantity declared in RFQ.

In case any supplier is found unsatisfactory during the delivery process, the award will be cancelled and BRPL reserves the right to award other suppliers who are found fit.

Quantity Variation: The purchaser reserves the rights to vary the quantity by +/- **30%** of the tender quantity.

Repeat Order: BRPL reserves the right to place repeat order at the same rates & terms and conditions as per this tender against additional requirement subject to mutual agreement between BRPL & supplier.

5.0 Market Integrity:

We have a fair and competitive marketplace. The rules for bidders are outlined in the Terms & Conditions. Bidders must agree to these rules prior to participating. In addition to other remedies available, we reserves the right to exclude a bidder from participating in future markets due to the bidder's violation of any of the rules or obligations contained in the Terms & Condition. Bidders who violate the marketplace rules or engage in behavior that disrupts the fair execution of the marketplace restricts a bidder to length of time, depending upon the seriousness of the violation. Examples of violations include, but are not limited to:

- Failure to honor prices submitted to the marketplace.
- Breach of the terms of the published in Request For Quotation.

6.0 Supplier Confidentiality

All information contained in this RFQ is confidential and may not be disclosed, published or advertised in any manner without written authorization from BRPL. This includes all bidding information submitted.

All RFQ documents remain the property of BRPL and all suppliers are required to return these documents to BRPL upon request.

Suppliers who do not honor these confidentiality provisions will be excluded from participating in future bidding events.

7.0 Contact Information

All communication as regards this RFQ shall be made (i) in English, (ii) in writing and (iii) sent by mail, facsimile to:

| | Technical | Commercial |
|--------------|--|--|
| Contact Name | Mr. Amit Tomar Copy to Mr. Sheshadri Krishnapura | Ms Rachna Jain Copy to Mr. Pankaj Goyal |
| Address | BSES RAJDHANI POWER LTD, 2nd Floor, B Block, Nehru Place, New Delhi – 110019 | C&M Deptt. 1st floor, D- Block, BSES Rajdhani Power Limited, BSES Bhawan, Nehru Place, New Delhi -110019 |
| Email-ID | amit.as.tomar@relianceada.com sheshadri.krishnapura@relianceada.com | rachna.jain@relianceada.com pankaj.goyal@relianceada.com |

SECTION – II

INSTRUCTION TO BIDDERS (ITB)

SUPPLY OF CHEMICAL EARTHING KITS IN BRPL

CMC/BR/22-23/RB/PR/RJ/0982

A. GENERAL

1.00 BSES Rajdhani power Ltd, hereinafter referred to as the Purchaser are desirous of implementing the various Systems Improvement/Repair & Maintenance works at their respective licensed area in Delhi. The Purchaser has now floated this tender for procurement of Chemical Earthing Kit as notified earlier in this bid document.

2.00 SCOPE OF WORK

The scope shall include Design, Manufacture, Testing at works conforming to the Technical Specifications enclosed along with Packing, Forwarding, Freight and Unloading and proper stacking at Purchaser's stores.

3.00 DISCLAIMER

3.01 This Document includes statements, which reflect various assumptions, which may or may not be correct. Each Bidder/ Bidding Consortium should conduct its own estimation and analysis and should check the accuracy, reliability and completeness of the information in this Document and obtain independent advice from appropriate sources in their own interest.

3.02 Neither Purchaser nor its employees will have any liability whatsoever to any Bidder or any other person under the law or contract, the principles of restitution or unjust enrichment or otherwise for any loss, expense or damage whatsoever which may arise from or be incurred or suffered in connection with anything contained in this Document, any matter deemed to form part of this Document, provision of Services and any other information supplied by or on behalf of Purchaser or its employees, or otherwise arising in any way from the selection process for the Supply.

3.03 Though adequate care has been taken while issuing the Bid document, the Bidder should satisfy itself that Documents are complete in all respects. Intimation of any discrepancy shall be given to this office immediately.

3.04 This Document and the information contained herein are Strictly Confidential and are for the use of only the person(s) to whom it is issued. It may not be copied or distributed by the recipient to third parties (other than in confidence to the recipient's professional advisors).

4.00 COST OF BIDDING

The Bidder shall bear all cost associated with the preparation and submission of its Bid and Purchaser will in no case be responsible or liable for those costs.

B BIDDING DOCUMENT

5.00 BIDDING DOCUMENTS

5.01 The Scope of Work, Bidding Procedures and Contract Terms are described in the Bidding Documents. In addition to the covering letter accompanying Bidding Documents, the Bidding Documents include:

Volume –I

- a) Request for Quotation (RFQ) - Section – I
- b) Instructions to Bidders (ITB) - Section – II
- c) General Conditions of Contract - Section - III
- d) Quantity and delivery requirement - Section –IV
- e) Technical Specifications (TS) - Section –V

Volume – II

- a) Bid Form - Annexure – I
- b) Bid Format - Annexure – II
- c) Price Schedule - Annexure – III
- d) Commercial Terms & Conditions - Annexure - IV
- e) No Deviation Sheet - Annexure - V
- f) Qualification Criterion - Annexure - VI

5.02 The Bidder is expected to examine the Bidding Documents, including all Instructions, Forms, Terms and specifications. Failure to furnish all information required by the Bidding documents or submission of a Bid not substantially responsive to the Bidding Documents in every respect will may result in the rejection of the Bid.

6.00 AMENDMENT OF BIDDING DOCUMENTS

6.01 At any time prior to the deadline for submission of Bids, the Purchaser may for any reasons, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the Bidding Documents by Amendment.

6.02 The Amendment shall be part of the Bidding Documents, pursuant to Clause 5.01, and it will be notified in writing by Fax/e-mail to all the Bidders who have received the Bidding Documents and confirmed their participation to Bid, and will be binding on them.

6.03 In order to afford prospective Bidders reasonable time in which to take the Amendment into account in preparing their Bids, the Purchaser may, at its discretion, extend the deadline for the submission of Bids.

C PREPARATION OF BIDS**7.00 LANGUAGE OF BID**

The Bid prepared by the Bidder, and all correspondence and documents relating to the Bid exchanged by the Bidder and the Purchaser, shall be written in the English Language. Any printed literature furnished by the Bidder may be written in another Language, provided that this literature is accompanied by an English translation, in which case, for purposes of interpretation of the Bid, the English translation shall govern.

8.00 DOCUMENTS COMPRISING THE BID

The Bid prepared and submitted by the Bidder shall comprise the following components:

- a) Bid Form ,Price & other Schedules (STRICTLY AS PER FORMAT)and Technical Data Sheets completed in accordance with Clause 9.0, 10.0, 11.0 and Technical Specification;
- b) All the Bids must be accompanied with the required EMD as mentioned in the Section-I against each tender.
- c) Power of Attorney or Authorization letter indicating that the person(s) signing the Bid have the authority to sign the Bid and thus that the Bid is binding upon the Bidder during the full period of its validity, in accordance with clause 12.0.

9.00 BID FORM

9.01 The Bidder shall complete an “Original” and another one “Copy” of the Bid Form and the appropriate Price & Other Schedules and Technical Data Sheets.

9.02 EMD

Pursuant to Clause 8.0(b) above, the bidder shall furnish, as part of its bid, a EMD amounting to 2% of the total bid value (FOR Destination) i.e. Rs. **7,20,000/-**. The EMD is required to protect the Purchaser against the risk of Bidder’s conduct which would warrant the security’s forfeiture.

The EMD shall be denominated in the currency of the bid, and shall be in the following form:

- a) A bank guarantee issued by any scheduled bank strictly as per the form at enclosed and shall be valid for a period of thirty (30) days beyond the validity of the bid.
- b) Bank Draft in favour of BSES RAJDHANI POWER LTD, payable at New Delhi.

Unsuccessful bidders’ EMD will be discharged or returned as promptly as possible as but not later than thirty (30) days after the expiration of the period of bid validity.

The successful bidder’s EMD will be discharged upon furnishing the performance security. The EMD may be forfeited:

- a) If the Bidder:
 - i) Withdraws its bid during the period of bid validity specified by the Bidder in the Bid Form; or
- b) in the case of a successful Bidder, if the Bidder fails:
 - i) to sign the Contract, or
 - ii) to furnish the required performance security.

- 10.01 Bidders shall quote for the entire Scope of Supply with a break-up of prices for individual items. The total Bid Price shall also cover all the Supplier's obligations mentioned in or reasonably to be inferred from the Bidding Documents in respect of Design, Supply, Transportation to site, all in accordance with the requirement of Bidding Documents The Bidder shall complete the appropriate Price Schedules included herein , stating the Unit Price for each item & total Price.
- 10.02 The prices offered shall be inclusive of all costs as well as Duties, Taxes and Levies paid or payable during execution of the supply work, breakup of price constituents, should be there. Prices quoted by the Bidder shall be—Firm “and not subject to any price adjustment during the performance of the Contract. A Bid submitted with an adjustable price quotation will be treated as non -responsive and rejected.

11.00 BID CURRENCIES

Prices shall be quoted in **Indian Rupees (INR) only**.

12.00 PERIOD OF VALIDITY OF BIDS

- 12.01 Bids shall remain valid for **120 days** post bid date.
- 12.02 Notwithstanding Clause12.01 above, the Purchaser may solicit the Bidder's consent to an extension of the Period of Bid Validity. The request and the responses thereto shall be made in writing by Fax/e-mail.

13.00 ALTERNATIVE BIDS

Bidders shall submit Bids, which comply with the Bidding Documents. Alternative Bids will not be considered. The attention of Bidders is drawn to the provisions of Clause 22.03 & 22.04 regarding the rejection of Bids, which are not substantially responsive to the requirements of the Bidding Documents.

14.00 FORMAT AND SIGNING OF BID

- 14.01 The original Bid Form and accompanying documents (as specified in Clause9.0),clearly marked "Original Bid", plus one copy must be received by the Purchaser at the date, time and place specified pursuant to Clauses15.0 and16.0. In the event of any discrepancy between the original and the copies, the original shall govern.
- 14.02 The original and copy of the Bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person or persons duly authorized to sign on behalf of the Bidder. Such authorization shall be indicated by written Power-of-Attorney accompanying the Bid.
- 14.03 The Bid shall contain no interlineations, erasures or overwriting except as necessary to correct errors made by the Bidder, in which case such corrections shall be initialed by the person or persons signing the Bid.

D SUBMISSION OF BIDS

15.0 SEALING AND MARKING OF BIDS

- 15.01 Bid submission: One original & one Copy (hard copies) of all the Bid Documents shall be sealed and submitted to the Purchaser before the closing time for submission of the bid.
- 15.02 The Technical Documents and the EMD shall be enclosed in a sealed envelope and the said envelope shall be superscribed with —**Technical & EMD**. The Financial bid shall be inside another sealed envelope with superscription — **Financial Bid**. Both these envelopes shall be sealed inside another big envelope. All the envelopes should bear the Name and Address of the Bidder and marking for the Original and Copy. The envelopes should be superscribed with —**“Tender Notice No, Due date of submission, Tender opening date”**.
- 15.03 The Bidder has the option of sending the Bids in person. Bids submitted by Telex/ Telegram/ Fax will not be accepted. No request from any Bidder to the Purchaser to collect the proposals from Airlines/Cargo Agents etc shall be entertained by the Purchaser.

16.0 DEADLINE FOR SUBMISSION OF BIDS

- 16.01 The original Bid, together with the required copies, must be received by the Purchaser at the address specified not later than **1530 HRS on 18.05.2021**.
- 16.02 The Purchaser may, at its discretion, extend the deadline for the submission of Bids by amending the Bidding Documents in accordance with Clause 9.0, in which case all rights and obligations of the Purchaser and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

17.0 ONE BID PER BIDDER

Each Bidder shall submit only one Bid. A Bidder who submits or participates in more than one Bid will cause all those Bids to be rejected.

18.00 LATE BIDS

Any Bid received by the Purchaser after the deadline for submission of Bids prescribed by the Purchaser, pursuant to Clause 16.0, will be declared "Late" and rejected and returned unopened to the Bidder.

19.00 MODIFICATIONS AND WITHDRAWAL OF BIDS

- 19.01 The Bidder is not allowed to modify or withdraw its Bid after the Bid's submission.

E. EVALUATION OF BID

20.00 PROCESS TO BE CONFIDENTIAL

Information relating to the examination, clarification, evaluation and comparison of Bids and recommendations for the award of a contract shall not be disclosed to Bidders or any other persons not officially concerned with such process. Any effort by a Bidder to influence the Purchaser's processing of Bids or award decisions may result in the rejection of the Bidder's Bid.

21.00 CLARIFICATION OF BIDS

To assist in the examination, evaluation and comparison of Bids, the Purchaser may, at its discretion, ask the bidder for a clarification of its Bid. All responses to requests for clarification shall be in writing and no change in the price or substance of the Bid shall be sought, offered or permitted.

22.00 PRELIMINARY EXAMINATION OF BIDS / RESPONSIVENESS

- 22.01 Purchaser will examine the Bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the Bids are generally in order.
- 22.02 Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price per item that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price per item will be corrected. If there is a discrepancy between the Total Amount and the sum of the total price per item, the sum of the total price per item shall prevail and the Total Amount will be corrected.
- 22.03 Prior to the detailed evaluation, Purchaser will determine the substantial responsiveness of each Bid to the Bidding Documents including production capability and acceptable quality of the Goods offered. A substantially responsive Bid is one, which conforms to all the terms and conditions of the Bidding Documents without material deviation.
- 22.04 Bid determined as not substantially responsive will be rejected by the Purchaser and/or the Purchaser and may not subsequently be made responsive by the Bidder by correction of the non-conformity.

23.0 EVALUATION AND COMPARISON OF BIDS

- 23.01 The evaluation of Bids shall be done based on the delivered cost competitiveness basis.
- 23.02 The evaluation of the Bids shall be a stage-wise procedure. The following stages are identified for evaluation purposes: In the first stage, the Bids would be subjected to a responsiveness check. The Technical Proposals and the Conditional ties of the Bidders would be evaluated. Subsequently, the Financial Proposals along with supplementary Financial Proposals, if any, of Bidders with Techno-commercially Acceptable Bids shall be considered for final evaluation.
- 23.03 The Purchaser's evaluation of a Bid will take into account, in addition to the Bid price, the following factors, in the manner and to the extent indicated in this Clause:

- (a) Supply Schedule
- (b) Deviations from Bidding Documents

Bidders shall base their Bid price on the terms and conditions specified in the Bidding Documents. The cost of all quantifiable deviations and omissions from the specification, terms and conditions specified in Bidding Documents shall be evaluated. The Purchaser will make its own assessment of the cost of any deviation for the purpose of ensuring fair comparison of Bids.

- 23.04 Any adjustment in price, which results from the above procedure, shall be added for the purposes of comparative evaluation only to arrive at an "Evaluated Bid Price". Bid Prices quoted by Bidders shall remain unaltered.

F. AWARD OF CONTRACT

24.0 CONTACTING THE PURCHASER

- 24.01 From the time of Bid submission to the time of contract award, if any Bidder wishes to contact the Purchaser on any matter related to the Bid, it should do so in writing.
- 24.02 Any effort by a Bidder to influence the Purchaser and/or in the Purchaser's decisions in respect of Bid evaluation, Bid comparison or Contract Award, will result in the rejection of the Bidder's Bid.

25.0 THE PURCHASER 'S RIGHT TO ACCEPT ANY BID AND TO REJECT ANY OR ALL BIDS

The Purchaser reserves the right to accept or reject any Bid and to annul the Bidding process and reject all Bids at anytime prior toward of Contract, without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the grounds for the Purchaser's action.

26.0 AWARD OF CONTRACT

The Purchaser will award the Contract to the successful Bidder whose Bid has been Determined to be the lowest-evaluated responsive Bid, provided further that the Bidder has been determined to be qualified to satisfactorily perform the Contract. Purchaser reserves the right to award order other bidders in the tender, provided it is required for progress of project & provided he agrees to come to the lowest rate.

27.0 THE PURCHASER'S RIGHT TO VARY QUANTITIES

The Purchaser reserves the right to vary the quantity i.e. increase or decrease the numbers/quantities without any change in terms and conditions during the execution of the Order.

28.0 LETTER OF INTENT/ NOTIFICATION OF AWARD

The letter of intent/ Notification of Award shall be issued to the successful Bidder whose bids have been considered responsive, techno-commercially acceptable and evaluated to be the lowest (L1). The successful Bidder shall be required to furnish a letter of acceptance within 7 days of issue of the letter of intent /Notification of Award by Purchaser.

29.0 PERFORMANCE BANK GUARANTEE

The successful Bidder shall furnish the Performance Bank Guarantee for an amount of 10% (Ten percent) of the Contract Price in accordance with the format provided. The Performance Bond shall be valid for a period of twenty four months (24) from the date of the commissioning or thirty months (30) from the date of receipt of material (last consignment) at site/stores whichever is earlier plus 3 months towards claim period. Upon submission of the performance security, the EMD shall be released.

30.00 CORRUPT OR FRADULENT PRACTICES

30.01 The Purchaser requires that the Bidders observe the highest standard of ethics during the procurement and execution of the Project. In pursuance of this policy, the Purchaser:

- (a) Defines, for the purposes of this provision, the terms set forth below as follows:
 - i) "Corrupt practice" means behavior on the part of officials in the public or private sectors by which they improperly and unlawfully enrich themselves and/or those close to them ,or induce others to do so, by misusing the position in which they are placed, and it includes the offering, giving, receiving, or soliciting of anything of value to influence the action of any such official in the procurement process or in contract execution; and
 - ii) "Fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Purchaser, and includes collusive practice among Bidders (prior to or after Bid submission) designed to establish Bid prices at artificial non-competitive levels and to deprive the Purchaser of the benefits of free and open competition.
- (b) Will reject a proposal forward if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question ;
- (c) Will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a contract if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing, a contract.

30.02 Furthermore, Bidders shall be aware of the provision stated in the General Conditions of Contract.

SECTION – III

GENERAL CONDITIONS OF CONTRACT (GCC)

SUPPLY OF CHEMICAL EARTHING KITS IN BRPL

CMC/BR/22-23/RB/PR/RJ/0982

1.0 General Instructions

- 1.01 All the Bids shall be prepared and submitted in accordance with these instructions.
- 1.02 Bidder shall bear all costs associated with the preparation and delivery of its Bid, and the Purchaser will in no case shall be responsible or liable for these costs.
- 1.03 The Bid should be submitted by the Bidder in whose name the bid document has been issued and under no circumstances it shall be transferred/ sold to the other party.
- 1.04 The Purchaser reserves the right to request for any additional information and also reserves the right to reject the proposal of any Bidder, if in the opinion of the Purchaser, the data in support of RFQ requirement is incomplete.
- 1.05 The Bidder is expected to examine all instructions, forms, terms & conditions and specifications in the Bid Documents. Failure to furnish all information required in the Bid Documents or submission of a Bid not substantially responsive to the Bid Documents in every respect may result in rejection of the Bid. However, the Purchaser's decision in regard to the responsiveness and rejection of bids shall be final and binding without any obligation, financial or otherwise, on the Purchaser.

2.0 Definition of Terms

- 2.01 "Purchaser" shall mean BRPL Limited, on whose behalf this bid enquiry is issued by its authorized representative / officers.
- 2.02 "Bidder" shall mean the firm who quotes against this bid enquiry issued by the Purchaser. "Supplier" or "Supplier" shall mean the successful Bidder and/or Bidders whose bid has been accepted by the Purchaser and on whom the "Letter of Acceptance" is placed by the Purchaser and shall include his heirs, legal representatives, successors and permitted assigns wherever the context so admits.
- 2.03 "Supply" shall mean the Scope of Contract as described.
- 2.04 "Specification" shall mean collectively all the terms and stipulations contained in those portions of this bid document known as RFQ, Commercial Terms & Condition, Instructions to Bidders, Technical Specifications and the Amendments, Revisions, Deletions or Additions, as may be made by the Purchaser from time to time.
- 2.05 "Letter of Acceptance" shall mean the official notice issued by the Purchaser notifying the Supplier that his proposal has been accepted and it shall include amendments thereto, if any, issued by the Purchaser. The "Letter of Acceptance" issued by the Purchaser shall be binding on the "Supplier" The date of Letter of Acceptance shall be taken as the effective date of the commencement of contract.

- 2.06 “Month” shall mean the calendar month and “Day” shall mean the calendar day.
- 2.07 “Codes and Standards” shall mean all the applicable codes and standards as indicated in the Specification.
- 2.08 “Offer Sheet” shall mean Bidder's firm offer submitted to BRPL in accordance with the specification.
- 2.09 “Contract” shall mean the “Letter of Acceptance” issued by the Purchaser.
- 2.10 “Contract Price” shall mean the price referred to in the “Letter of Acceptance”.
- 2.11 “Contract Period” shall mean the period during which the “Contract” shall be executed as agreed between the Supplier and the Purchaser in the Contract inclusive of extended contract period for reason beyond the control of the Supplier and/or Purchaser due to force majeure.
- 2.12 “Acceptance” shall mean and deemed to include one or more of the following as will be stipulated in the specification:
- a) The written acceptance of material by the inspector at suppliers works to ship the materials.
 - b) Acceptance of material at Purchaser site stores after its receipt and due inspection/ testing and release of material acceptance voucher.
 - c) Where the scope of the contract includes supply, acceptance shall mean issue of necessary equipment / material takeover receipt after installation & commissioning and final acceptance.
- 3.0 Contract Documents & Priority**
- 3.01 Contract Documents: The terms and conditions of the contract shall consist solely of these RFQ conditions and the offer sheet.
- 3.02 Priority: Should there be any discrepancy between any term hereof and any term of the Offer Sheet, the terms of these RFQ shall prevail.
- 4.0 Scope of Supply - General**
- 4.01 The “Scope of Supply” shall be on the basis of Bidder’s responsibility, completely covering the obligations, responsibility and supplies provided in this Bid enquiry whether implicit or explicit.
- 4.02 Bidder shall have to quote for the Bill of quantities as listed in Section – IV of this RFQ.
- 4.03 Quantity variation and additional requirement if any shall be communicated to successful bidder during project execution.
- 4.04 All relevant drawings, data and instruction manuals.

5.0 Quality Assurance and Inspection

- 5.01 Immediately on award of contract, the bidder shall prepare detailed quality assurance plan / test procedure identifying the various stages of manufacture, quality checks performed at each stage, raw material inspection and the Customer hold points. The document shall also furnish details of method of checking, inspection and acceptance standards / values and get the approval of Purchaser before proceeding with manufacturing. However, Purchaser shall have right to review the inspection reports, quality checks and results of suppliers in house inspection department which are not Customer hold points and the supplier shall comply with the remarks made by purchaser or his representative on such reviews with regards to further testing, rectification or rejection, etc.
- 5.02 Witness and Hold points are critical steps in manufacturing, inspection and testing where the supplier is obliged to notify the Purchaser in advance so that it may be witnessed by the Purchaser. Final inspection is a mandatory hold point. The supplier needs to proceed with the work past a hold point only after clearance by purchaser or a witness waiver letter from BRPL.
- 5.03 The performance of waiver of QA activity by Purchaser at any stage of manufacturing does not relieve the supplier of any obligation to perform in accordance with and meet all the requirements of the procurement documents and also all the codes & reference documents mentioned in the procurement document nor shall it preclude subsequent rejection by the purchaser.
- 5.04 On completion of manufacturing the items can be dispatched only after issue of shipping release by the Purchaser.
- 5.05 All testing and inspection shall be done without any extra cost.
- 5.06 Purchaser reserve the right to send any material out of the supply to any recognized laboratory for testing and the cost of testing shall be borne by the Purchaser. In case the material is found not in order with the technical requirement / specification, the charges along with any other penalty which may be levied is to be borne by the bidder. To avoid any complaint the supplier is advised to send his representative to the stores to see that the material sent for testing is being sealed in the presence of bidders representative.
- 5.07 Bidder has to sign quality agreement before supply of the material.

6.0 Packing, Packing List & Marking

- 6.01 Packing: Supplier shall pack or shall cause to be packed all Commodities in boxes and containers and otherwise in such a manner as shall be reasonably suitable for shipment by road or rail to BRPL without undue risk of damage in transit.
- 6.02 Packing List: The contents of each package shall be itemized on a detailed list showing the exact weight and the extreme outside dimensions (length, width and height) of each container or box. One copy of the packing list shall be enclosed in each package delivered. There shall also be enclosed in one package a master packing list identifying each individual package,

which is part of the shipment. On any packaging where it is not feasible to place the packing list inside the container, all pertinent information shall be stenciled on the outside and will thus constitute a packing list.

7.01 Prices basis for supply of materials

Bidders require quoting their prices on Landed Cost Basis and separate price for each item. For Supply to BRPL Delhi the price shall be inclusive of packing, forwarding, GST and freights. The above supply prices shall also include unloading at site stores. Transit and storage insurance will be arranged by BRPL; however bidder to furnish required details in advance for arranging the same by BRPL.

8.0 Variation in taxes, duties & levies:

- 8.01 The total order value shall be adjusted on account of any variations in Statutory Levies imposed by Competent Authorities by way of fresh notification(s) within the stipulated delivery period only. However, incase of reduction in taxes, duties and levies, the benefits of the same shall be passed on to BUYER.
- 8.02 No other Taxes, Duties & Levies other than those specified above will be payable by BUYER except in case of new Levies, Taxes & Duties imposed by the Competent Authorities by way of fresh notification(s) subsequent to the issue of PURCHASE ORDER but within the stipulated delivery period.
- 8.03 Notwithstanding what is stated above, changes in Taxes, Duties & Levies shall apply only to that portion of PURCHASE ORDER not executed on the date of notification by Competent Authority. Further, changes in Taxes, Duties & Levies after due date of Delivery shall not affect PURCHASE ORDER Terms and Value.
- 8.04 PURCHASE ORDER value shall not be subject to any variation on account of variation in Exchange rate(s).

9.0 Taxes & Duties on raw materials & bought out components:

- 9.01 Taxes & Duties on raw materials & bought out components are included in Order Value and are not subject to any escalation or variation for any reason whatsoever.
- 9.02 Taxes & Duties on raw materials & bought out components procured indigenously are included in Order Value and are not subject to any escalation or variation for any reason whatsoever.

10.0 Terms of payment and billing

10.01 For Supply of Equipments:

- 100% payment shall be made within 45 days from the date of receipt of material at store/ site against submission of 10 % performance bank guarantee. (Refer 10.01)

10.02 Bidder to submit the following documents against dispatch of each consignment:

- i) Consignee copy of LR
- ii) Supplier detailed invoice showing commodity description, quantity, unit price, total price and basis of delivery.
- iii) Original certificate issued by BRPL confirming receipt of material at site and acceptance of the same.
- iv) Dispatch clearance / inspection report in original issued by the inspection authority
- v) Packing List.
- vi) Test Reports
- vii) Guarantee Certificate.
- viii) Insurance policy to be obtained by supplier

11.0 Price Validity

11.01 All bids submitted shall remain valid, firm and subject to unconditional acceptance by BRPL Delhi for 120 days post bid-date. For awarded suppliers, the prices shall remain valid and firm till contract completion.

12.0 Performance Guarantee

12.01 Supplier shall establish a performance bond in favor of BRPL in an amount not less than Ten percent (10%) of the total price of the Contract (the "Performance Bond"). The Performance Bond shall be valid for a period of twenty four months (24) from the date of the commissioning or thirty months (30) from the date of receipt of material (last consignment) at site/stores whichever is earlier plus 3 months towards claim period. It shall be in accordance with one of the following terms:

- a) Depositing pay order /demand draft of the relevant amount directly with BRPL at the address listed above or as otherwise specified by BRPL, either of which shall constitute the Performance Bond hereunder; or
- b) Bank guarantee from any nationalized bank in favour of BSES RAJDHANI POWER LTD (BRPL). The performance Bank guarantee shall be in the format as specified by BRPL.

13.0 Forfeiture

13.01 Each Performance Bond established under Clause 10.0 shall contain a statement that it shall be automatically and unconditionally forfeited without recourse and payable against the presentation by BRPL of this Performance Bond to the ICICI Bank at Mumbai, or to the relevant company/ correspondent bank referred to above, as the case may be, together with a simple statement that supplier has failed to comply with any term or condition set forth in the Contract.

13.02 Each Performance Bond established under will be automatically and unconditionally forfeited without recourse if BRPL in its sole discretion determines that supplier has failed to comply with any term or condition set forth in the contract.

14.0 Release

All Performance Bonds will be released without interest within seven (7) days from the last date up to which the Performance Bond has to be kept valid (as defined in Clause 10.0) except for the case set forth in Clause 21.0.

15.0 Defects Liability Period

15.01 The bidder to Guarantee the materials / items supplied against any defect of failure, which arise due to faulty materials, workmanship or design for the entire defects liability period. The Defect liability period shall be for 10 years with maintaining resistance less than 5 ohms from the date of commissioning or 6 months from the date of delivery whichever is earlier. If during the defects liability period any materials / items are found to be defective, these shall be replaced or rectified by the bidder at his own cost within 30 days from the date of receipt of intimation.

16.0 Return, Replacement or Substitution.

BRPL shall give Supplier notice of any defective Commodity promptly after becoming aware thereof. BRPL may in its discretion elect to return defective Commodities to Supplier for replacement, free of charge to BRPL, or may reject such Commodities and purchase the same or similar Commodities from any third party. In the latter case BRPL shall furnish proof to Supplier of the cost of such substitute purchase. In either case, all costs of any replacement, substitution, shipping, labour and other related expenses incurred in connection with the return and replacement or for the substitute purchase of a Commodity hereunder should be for the account of Supplier. BRPL may set off such costs against any amounts payable by BRPL to Supplier. Supplier shall reimburse BRPL for the amount, if any, by which the price of a substitute Commodity exceeds the price for such Commodity as quoted in the Bid.

17.0 Effective Date of Commencement of Contract:

17.01 The date of the issue of the Letter of Acceptance shall be treated as the effective date of the commencement of Contract.

18.0 Time – The Essence of Contract

18.01 The time and the date of completion of the “Supply” as stipulated in the Letter Of Acceptance / Purchase order issued to the Supplier shall be deemed to be the essence of the “Contract”. The Supply has to be completed not later than the aforesaid Schedule and date of completion of supply.

19.0 The Laws and Jurisdiction of Contract:

19.01 The laws applicable to this Contract shall be the Laws in force in India.

19.02 All disputes arising in connection with the present Contract shall be settled amicably by mutual consultation failing which shall be finally settled as per the rules of Arbitration and Conciliation Act, 1996 at the discretion of Purchaser. The venue of arbitration shall be at Mumbai in India

20.0 Events of Default

20.01 Events of Default. Each of the following events or occurrences shall constitute an event of default ("Event of Default") under the Contract:

- a) Supplier fails or refuses to pay any amounts due under the Contract;
- b) Supplier fails or refuses to deliver Commodities conforming to this RFQ/ specifications, or fails to deliver Commodities within the period specified in P.O. or any extension thereof
- c) Supplier becomes insolvent or unable to pay its debts when due, or commits any act of bankruptcy, such as filing any petition in any bankruptcy, winding-up or reorganization proceeding, or acknowledges in writing its insolvency or inability to pay its debts; or the Supplier's creditors file any petition relating to bankruptcy of Supplier;
- d) Supplier otherwise fails or refuses to perform or observe any term or condition of the Contract and such failure is not remediable or, if remediable, continues for a period of 30 days after receipt by the Supplier of notice of such failure from BRPL.

21.0 Consequences of Default.

- a) If an Event of Default shall occur and be continuing, BRPL may forthwith terminate the Contract by written notice.
- b) In the event of an Event of Default, BRPL may, without prejudice to any other right granted to it by law, or the Contract, take any or all of the following actions;
 - i) present for payment to the relevant bank the Performance Bond;
 - ii) purchase the same or similar Commodities from any third party; and/or
 - iii) recover any losses and/or additional expenses BRPL may incur as a result of Supplier's default.

22.0 Penalty for Delay

22.01 If supply of items / equipments is delayed beyond the supply schedule as stipulated in purchase order then the Supplier shall be liable to pay to the Purchaser as penalty for delay, a sum of 1% (one percent) of the contract price for every week delay or part thereof for undelivered quantities.

22.02 The total amount of penalty for delay under the contract will be subject to a maximum of ten percent (10%) of the contract price for undelivered quantities.

22.03 The Purchaser may, without prejudice to any method of recovery, deduct the amount for such damages from any amount due or which may become due to the Supplier or from the Performance Bond or file a claim against the supplier.

23.0 Force Majeure

23.01 General

An "Event of Force Majeure" shall mean any event or circumstance not within the reasonable control directly or indirectly, of the Party affected, but only if and to the extent that:

- i) Such event or circumstance materially and adversely affects the ability of the affected Party to perform its obligations under this Contract, and the affected Party has taken all reasonable precautions, due care and reasonable alternative measures in order to prevent or avoid the effect of such event on the affected party's ability to perform its obligations under this Contract and to mitigate the consequences thereof.
- ii) For the avoidance of doubt, if such event or circumstance would not have materially and adversely affected the performance of the affected party had such affected party followed good industry practice, such event or circumstance shall not constitute force majeure.
- iii) Such event is not the direct or indirect result of the failure of such Party to perform any of its obligations under this Contract.
- iv) Such Party has given the other Party prompt notice describing such events, the effect thereof and the actions being taken in order to comply with above clause.

23.02 Specific Events of Force Majeure subject to the provisions of above clause, Events of Force Majeure shall include only the following to the extent that they or their consequences satisfy the above requirements:

23.03 Mitigation of Events of Force Majeure Each Party shall:

- i) Make all reasonable efforts to prevent and reduce to a minimum and mitigate the effect of any delay occasioned by an Event of Force Majeure including recourse to alternate methods of satisfying its obligations under the Contract;
- ii) Use its best efforts to ensure resumption of normal performance after the termination of any Event of Force Majeure and shall perform its obligations to the maximum extent practicable as agreed between the Parties; and
- iii) Keep the other Party informed at regular intervals of the circumstances concerning the event of Force Majeure, with best estimates as to its likely continuation and what measures or contingency planning it is taking to mitigate and or terminate the Event of Force Majeure.

23.04 Burden of Proof In the event that the Parties are unable in good faith to agree that a Force Majeure event has occurred to an affected party, the parties shall resolve their dispute in accordance with the provisions of this Agreement. The burden of proof as to whether or not a force majeure event has occurred shall be upon the party claiming that the force majeure event has occurred and that it is the affected party.

- 23.05 Termination for Certain Events of Force Majeure. If any obligation of any Party under the Contract is or is reasonably expected to be delayed or prevented by a Force Majeure event for a continuous period of more than 3 months, the Parties shall promptly discuss in good faith how to proceed with a view to reaching a solution on mutually agreed basis. If a solution on mutually agreed basis cannot be arrived at within a period of 30 days after the expiry of the period of three months, the Contract shall be terminated after the said period of 30 days and neither Party shall be liable to the other for any consequences arising on account of such termination.
- 23.06 Limitation of Force Majeure event. The Supplier shall not be relieved of any obligation under the Contract solely because cost of performance is increased, whether as a consequence of adverse economic consequences or otherwise.
- 23.07 Extension of Contract Period due to Force Majeure event The Contract period may be extended by mutual agreement of Parties by way of an adjustment on account of any period during which an obligation of either Party is suspended due to a Force Majeure event.
- 23.08 Effect of Events of Force Majeure. Except as otherwise provided herein or may further be agreed between the Parties, either Party shall be excused from performance and neither Party shall be construed to be in default in respect of any obligations hereunder, for so long as failure to perform such obligations shall be due to and event of Force Majeure."
- 24.0 Transfer And Sub-Letting**
- 24.01 The Supplier shall not sublet, transfer, assign or otherwise part with the Contract or any part thereof, either directly or indirectly, without prior written permission of the Purchaser.
- 25.0 Recoveries**
- 25.01 Whenever under this contract any money is recoverable from and payable by the bidder, the purchaser shall be entitled to recover such sum by appropriating in part or in whole by detecting any sum due to which any time thereafter may become due from the supplier in this or any other contract. Should the sum be not sufficient to cover the full amount recoverable the bidder shall pay to the purchaser on demand the remaining balance.
- 26.0 Waiver**
- 26.01 Failure to enforce any condition herein contained shall not operate as a waiver of the condition itself or any subsequent breach thereof.
- 27.0 Indemnification**
- 27.01 Notwithstanding contrary to anything contained in this RFQ, Supplier shall at his costs and risks make good any loss or damage to the property of the Purchaser and/or the other Supplier engaged by the Purchaser and/or the employees of the Purchaser and/or employees of the other Supplier engaged by the Purchaser whatsoever arising out of the negligence of the Supplier while performing the obligations under this contract.

SECTION – IV: QUANTITY AND DELIVERY REQUIREMENT

| Sl. No. | Item Description | Specification | Requirement | Delivery Schedule | Location |
|------------|----------------------------------|---------------|-------------|-------------------------|-------------------|
| BRPL,DELHI | | | | | |
| 1 | Supply of Chemical Earthing Kits | SECTION V | 14560 Nos | As per BRPL requirement | Stores BRPL Delhi |
| TOTAL | | | | | |

BID FORM

Supply of Chemical Earthing Kits

To
Head of the Department Contracts & Materials BSES Rajdhani Power Ltd BSES Bhawan, Nehru
Place New Delhi– 110019
Sir,

We understand that BRPL is desirous of procuring “Chemical Earthing Kit” in its licensed distribution network area in Delhi. Having examined the Bidding Documents for the above named works, we the undersigned, offer to deliver the goods in full conformity with the Drawings, Conditions of Contract and specifications for the sum of AS PER PRICE BID ENCLOSED or such other sums as may be determined in accordance with the terms and conditions of the contract .The above amounts are in accordance with the Price Schedules attached herewith and are made part of this bid.

If our Bid is accepted, we undertake to deliver the entire goods as per delivery schedule given by you from the date of award of purchase order/letter of intent.

If our Bid is accepted, we will furnish a performance bank guarantee for an amount of 10% (Ten) percent of the total contract value for due performance of the Contract in accordance with the General Conditions of Contract.

We agree to abide by this Bid for a period of 120 days from the date fixed for bid opening under clause 9.0 of GCC, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

We declare that we have studied the provision of Indian Income Tax Law and other Indian Laws for supply of equipments/materials and the prices have been quoted accordingly.

Unless and until Letter of Intent is issued, this Bid, together with your written acceptance thereof, shall constitute a binding contract between us.

We understand that you are not bound to accept the lowest, or any bid you may receive.

There is provision for Resolution of Disputes under this Contract, in accordance with the Laws and Jurisdiction of Contract, Clause 19 of GCC .

Dated this.....day of.....20.....
Signature..... In the capacity of.....
.....duly authorized to sign for and on behalf of (IN BLOCK CAPITALS).....

FORMAT FOR EMD BANK GUARANTEE

(To be issued in a Non Judicial Stamp Paper of Rs.50/-purchased in the name of the bank)

Whereas [name of the Bidder] (hereinafter called the “Bidder”) has submitted its bid dated [date of submission of bid] for the supply of [name and/or description of the goods] (hereafter called “the Bid”). KNOW ALL PEOPLE by these presents that WE [name of bank]at[Branch Name and address],having our registered office at[address of the registered office of the bank](herein after called —“the Bank”),are bound unto BSES Rajdhani Power Ltd., with its Corporate Office at BSES Bhawan Nehru Place, New Delhi -110019, (herein after called —the “Purchaser”) in the sum of _____ for which payment well and truly to be made to the said Purchaser, the Bank binds itself, its successors, and assigns by these presents. Sealed with the Common Seal of the said Bank this ___ day of __ 20__.

THE CONDITIONS of this obligation are:

If the Bidder withdraws its Bid during the period of bid validity specified by the Bidder on the Bid Form; or

If the Bidder, having been notified of the acceptance of its Bid by the Purchaser during the period of bid validity:

fails or refuses to execute the Contract Form ,if required; or
fails or refuses to furnish the performance security, In accordance with the Instructions to Bidders/GENERAL CONDITIONS.;

We undertake to pay to the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that is its demand the purchaser will note that amount claimed by it is due to it, owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including thirty (30) days after the period of bid validity, and any demand in respect thereof should reach the Bank not later than the above date.

(Signature of the bank)

Signature of the witness

PRICE FORMAT

ENQUIRY NO & DATE: NIT: CMC/BR/22-23/RB/PR/RJ/0982

PRICE SCHEDULE

| ITEM DESCRIPTION | QTY AS PER RFQ | UOM | EX-WORKS RATE/UNIT | CGST (%) | CGST AMOUNT | SGST (%) | SGST AMOUNT | IGST (%) | IGST AMOUNT | FREIGHT | LANDED RATE/UNIT | TOTAL LANDED COST (INR) |
|------------------------|----------------|-----|--------------------|----------|-------------|----------|-------------|----------|-------------|---------|------------------|-------------------------|
| Chemical Earthing Kits | 14560 Nos | | | | | | | | | | | |

- Note: 1.Prices shall be Firm
2.The prices received without break up of ex works, Freight, GST are liable for rejection
3. Pls. Indicate the exact percentage of taxes in figures and words.
4. If there is a discrepancy between the unit price and the total price THE UNIT PRICE shall prevail.
5. Bidders are requested to attach the covering letter head alongwith the price bid indicating reference no and date.

Bidders seal & signature

Enquiry No. : CMC/BR/22-23/RB/PR/RJ/0982

COMMERCIAL TERMS AND CONDITIONS

| S/NO | ITEM DESCRIPTION | AS PER BRPL | CONFIRMATION OF BIDDER |
|------|----------------------------|---|------------------------|
| 1 | Validity of prices | 120 days from date of offer | |
| 2 | Price basis | Firm, FOR Delhi store basis, Prices shall be inclusive of all taxes & duties, freight upto Delhi stores. Unloading at stores be in vendor's scope Transit insurance in BRPL scope | |
| 3 | Payment Terms | 100% payment within 45 days after receipt of material at stores | |
| 4 | Delivery schedule | As per our requirement | |
| 5 | Defect Liability Period | Warrant shall be 10 years with maintaining resistance less than 5 Ohms from the date of commission or 6 months from the date of delivery whichever is earlier. | |
| 6 | Penalty for delay | 1% per week of delay of undelivered units or part thereof subject to maximum of 10% of total PO value of undelivered units | |
| 7 | Performance Bank Guarantee | 10% of total PO value for 24 months after commissioning or 30 months from date of supply, whichever is earlier plus 3 months towards claim period | |

ANNEXURE - V

ENQUIRY NO: CMC/BR/22-23/RB/PR/RJ/0982

NO DEVIATION SHEET

| SL NO | SL NO OF TECHNICAL SPECIFICATION | DEVIATION, IF ANY |
|-------|----------------------------------|-------------------|
| | | |

SIGNATURE & SEAL OF BIDDER

NAME OF BIDDER

| Sl No | Item Description | YES/NO |
|-------|---|-------------------------|
| 1 | INDEX | YES/NO |
| 2 | COVERING LETTER | YES/NO |
| 3 | BID FORM (UNPRICED) DULY SIGNED | YES/NO |
| 4 | BILL OF MATERIAL (UNPRICED) | YES/NO |
| 5 | TECHNICAL BID | YES/NO |
| 6 | ACCEPTANCE TO COMMERCIAL TERMS & CONDITIONS | YES/NO |
| 7 | FINANCIAL BIDS (IN SEALED ENVELOPE) | YES/NO |
| 8 | EMD IN PRESCRIBED FORMAT | YES/NO |
| 9 | DEMAND DRAFT OF RS 1180/- DRAWN IN FAVOUR OF | BSES RAJDHANI POWER LTD |
| 10 | POWER OF ATTORNEY/ AUTHORISATION LETTER FOR SIGNING THE BID | YES/NO |

SECTION – V

TECHNICAL SPECIFICATIONS (TS)

CHEMICAL EARTHING KITS

CMC/BR/22-23/RB/PR/RJ/0982

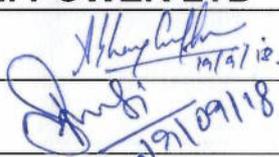
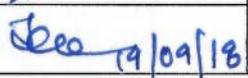
The detailed technical specifications of Chemical Earthing Kits

BSES

TECHNICAL SPECIFICATION OF CHEMICAL EARTHING

Specification No- GN101-03-SP-63-01

BSES RAJDHANI POWER LTD

| | | | |
|---|----------------|--|------------------|
| Prepared by | Abhay Gupta |  19/09/18 | Rev : 01 |
| | Pronab Bairagi | | |
| Reviewed by | Amit Tomar |  19/09/18 | Date : 19-Sep-18 |
| Approved by | K. Sheshadri |  19/09/18 | Page : 1 of 19 |
| Registered Office: BSES Bhawan, Nehru Place, Delhi - 110019 | | | |



BSES Rajdhani Power Ltd

GN101-03-SP-63-01

TECHNICAL SPECIFICATIONS OF CHEMICAL EARTHING

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TECHNICAL SPECIFICATIONS OF CHEMICAL EARTHING

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REVISION RECORD

| Rev. No. | Revision Date | Item/ clause no; | Page No. | Nature of Change | Approved by |
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1.0 SCOPE

This specification provides design, manufacturing, testing, inspection, packing, dispatch and installation of Chemical Earthing along with required accessories to BRPL New Delhi store/ site, specified herein for their satisfactory operation in the network of BRPL, New Delhi.

TECHNICAL SPECIFICATIONS OF CHEMICAL EARTHING

Such earthing shall last for minimum of 15 – 20 years and shall maintain the ohmic values despite of seasonal changes and water conditions. The conductivity of the material shall remain uncompromised

Chemical Earthing shall be used for various EHV, HV and LV equipments such as PTRs, Panels, Feeders, Distribution Transformers, Poles, Distribution boxes, RMUs etc.

2.0 STANDARDS

Chemical Earthing shall conform to the following International/Indian Standards and shall also abide the guidelines of CEA of India, which shall mean latest revisions, with amendments/changes adopted and published, unless specifically stated otherwise in the Specification.

| S.No | International/ Indian standard | Title |
|------|--------------------------------|--------------------------------|
| 1 | IS 3043 | Code for practice of Earthing |
| 2 | IEEE Std. 80 | Guide for Substation Grounding |

3.0 CLIMATIC CONDITIONS

| | | |
|---|-------------------------------------|---|
| 1 | Average grade atmospheric condition | Heavily polluted, dry |
| 2 | Maximum altitude above sea level | 1000 M |
| 3 | Air temperature Ambient | i) Highest : 50°C ii) Average : 30°C iii) Minimum : 0°C |
| 4 | Relative Humidity | 100 % max |
| 5 | Thermal Resistivity of Soil | 150°C. cm / W (max.) |
| 6 | Seismic Zone | 4 |
| 7 | Rainfall | 750 mm concentrated in four months |

4.0 GENERAL TECHNICAL REQUIREMENT**4.1 GROUND RESISTANCE VALUE**

Ideally the ground resistance value should be "ZERO". As per IEEE recommendation the ground resistance value should be 5 ohms or less for effective grounding for small sub-station.

In BSES, the primary guidelines shall be followed for a good earthing system in a Distribution Sub-Station & down stream LT Equipments / Installations are as under-

TECHNICAL SPECIFICATIONS OF CHEMICAL EARTHING

- a) The impedance to ground should be as low as possible. In large Sub-Stations , it should not exceed 1 ohm and in small **Sub-Stations 5 ohm as per IEEE Std.80, cl no 14.1** and as per cl. no. 3.2.6 of Chapter-III of CBIP Technical report no. 3 (Revised) Reprinted 1990 & 1995 on Manual on Layout of Sub-Stations.
- b) At condition in BRPL area, Mesh resistance shall not cross 5ohm and that shall maintain throughout the warranty period without any maintenance.
- c) Max. soil resistivity at BRPL area is 100ohm-mtr.

The specification generally covers the technical parameters of Chemical Earthing kit, earthing pit and installation of chemical earthing.

The Chemical Earthing shall therefore be suitable for satisfactory operation under the climatic conditions listed in clause 3.0.

4.2 GENERAL REQUIREMENT

A. Supply:

1. Copper bonded electrode/Rod electrode or any suitably designed copper electrode of length of 3 meter with 17.2 mm dia shall be used. Copper bonded rod shall be UL certified and type tested from CPRI/ERDA which are mandatory. Copper coating shall be 250 micron minimum.
2. Earth enhancing material shall have lower ground resistivity, better conductivity, corrosion protection of electrode, non leaching and environment friendly properties. 25kg shall be normal packaging.
3. Inspection joint which shall be used for testing of pit resistance
4. Heavy duty Polyplastic cover for Earth pit
5. Copper bonded steel conductor (18mm dia) for mesh formation
6. Exothermic joint (L, T and Cross joint)
7. Exothermic welding accessories
8. GI Strip for connection of equipment to mesh

B. Service:

1. All the earthing shall be in mesh formation
2. Mesh resistance shall not cross 5ohm and that shall maintain throughout the warranty period without any maintenance.

TECHNICAL SPECIFICATIONS OF CHEMICAL EARTHING

3. All tools & tackles, equipment, boring equipment, hardware and services required for successful completion of the work shall be in OEM scope of work.
4. BRPL reserves the right of inspection and monitor work progress time to time and ask for amendment / rework if the job is not up to the requirement.
5. Time is the essence of the contract and the bidder shall comply with the schedule and complete the execution of the contract within the time frame specified during award of contract.
6. All safety rules and codes as applicable to work shall be followed without exception. All safety and protective devices / appliances including belts, hand gloves, aprons, helmets, shields, goggles, and safety shoe shall be provided by the contractor to his personnel.

4.3 DESIGN PARAMETERS

1. Mesh resistance shall be less than 5 ohm and should never exceed 5 ohms throughout the warranty period
2. Fault current sustainability shall be 30.68 KA for 1 sec
3. Enhancing material shall provide better conductivity, corrosion protection of electrode, non leaching and environment friendly
4. Chemical Earthing arrangement should be maintenance free for the warranty period
5. Minimum Warranty of 10 years
6. General Arrangement as per approved in Annexure –B
7. Soil resistivity shall be considered 100ohm.mtr max.

4.4 INSTALLATION OF EARTH PIT

1. The pits shall be drawn with the help of a boring machine, an auger or any other means as required by site conditions and nature of ground strata
2. The pit for electrode shall be of 200 mm larger than the length of the pipe.
3. The top of the pipe will be approximately **150 mm** below the level of the Grade/ground level.
4. No. of Earth pits shall be as per BRPL requirements.

TECHNICAL SPECIFICATIONS OF CHEMICAL EARTHING

5. The earth pit shall be placed at a distance of 3.0M apart minimum
6. In case of congested area , the distance between the earth pits shall not be less than 2.50 M.
7. Minimum of 1.0 M distance of Earth pit from electrical equipment and structures shall be maintained.
8. The earth pits shall be backfilled with Earth enhancing material.
9. Top of the pit shall be covered by polyplastic pit cover
10. After completion of earthing, area dressing shall be done by OEM

4.5 EARTH CONDUCTOR

1. 50X6 GI strip shall be used for equipments connection
2. Copper bonded conductor (18mm) shall be laid 500mm below FGL for mesh formation
3. The connection of GI flat (50x6) with the Copper bonded electrode/Rod shall be done by Exothermic welding joint (L,T or Cross)
4. The connection of GI flat (50x6) with equipments (with the earthing provision given by equipment OEM) shall be done by M12 GI bolt. GI Bolt shall be provided by OEM of Earthing.
5. In case the copper bonded rod/GI flat is to cross any obstruction, it shall be laid below the obstruction.
6. Wherever bolted connection is taken, it shall be taken through two bolts at each joint to ensure tightness and avoid loosening with passage of time.

4.6 GROUND EARTH ENHANCEMENT MATERIAL

Earth enhancement material is a superior conductive material that improves earthing effectiveness, especially in areas of poor conductivity (rocky ground, areas of moisture variation, sandy soils etc.). It may contain conductive cement, graphite, hydrous aluminium silicate, sodium montmorillonite etc. It improves conductivity of the earth electrode and ground contact area. It shall have following characteristics-

1. It should have low resistivity preferably below 0.2 Ohm-meters. Resistivity shall be tested by making a 20cm. cube of the material and checking resistance across the opposite face of the cube.
2. It shall not depend on the continuous presence of water to maintain its conductivity.

TECHNICAL SPECIFICATIONS OF CHEMICAL EARTHING

3. It should be a little alkaline in nature with pH value >7 but <9 , test certificate from NABL approved laboratory to be provided for the composition so designed.
4. It should have better hygroscopic properties to absorb moisture. It should absorb and release the moisture in dry weather condition and help in maintaining the moisture around the earth electrode.
5. It should have capacity to retain $>10\%$ moisture at 105°C . Test certificate from NABL approved lab to be submitted for the composition so designed.
6. It should have water solubility $< 5\%$. Test certificate from NABL approved lab be submitted for the composition so designed.
7. It should be granular with granule size 0.1 mm to 3 mm.
8. It should be non toxic, non reactive, non explosive & non corrosive.
9. It shall be thermally stable between 0 degree centigrade to $+60$ degree centigrade ambient temperature.
10. It shall not decompose or leach out with time.
11. It shall not pollute the soil or local water table and meets environmental friendly requirement for landfill.
12. It should expand & swell considerably and removes entrapped air to create strong connection between earth electrode and soil.
13. It should be diffuses into soil pores and creates conductive roots enlarging conductive zone of earth pit.
14. It shall be permanent & maintenance free and in its "set form", maintains constant earth resistance with time.
15. It shall not require periodic treatment or replacement.
16. It shall be suitable for any kind of electrode and all kinds of soils of different resistivity.
17. It shall not cause burns, irritation to eye, skin etc.
18. The Earth enhancement material shall be supplied in sealed, moisture proof bags. These bags shall be marked with Manufacturer's name or trade name, quantity, batch no & date of manufacture, Buyer's name, PO no, date of PO.

TECHNICAL SPECIFICATIONS OF CHEMICAL EARTHING**5.0 TESTS****5.1 GENERAL**

BRPL reserves the right to inspect the material at the time of tests. All tests shall then be performed in the presence of BRPL representative. The Bidder shall have to give intimation in advance to witness the test. All the test results must be recorded in presence of the inspecting authority.

5.2 TYPE TESTS

All the product shall be type tested from CPRI/ERDA. Type test report shall not be more than 5 years old.

Type test report is valid only 5 years from the date of tender floating. In case of type test report is more than 5 years old, bidder has to conduct the type test from BRPL sample at CPRI/ERDA without any cost implication to BRPL.

5.2 ACCEPTANCE TESTS

1. Visual examination test
2. Dimensional verification
3. Resistivity verification

5.3 TESTING CHARGES

| | |
|-------|---|
| 5.3.1 | The testing charges for the type tests specified and as per relevant standard shall be borne by the bidder. All the manufacturers irrespective of quantity allotted to them, will have to carry out the Type Tests at their own cost and BRPL will not have any bearing on this account. The type test reports shall not be older than 5 yrs and shall be valid till the validity of offer |
| 5.3.2 | In case of failure in any of the type tests, the manufacturer is required to modify the design of the material if required and repeat the particular type test and same shall pass within three times at his own expenses. The decision of the BRPL in this regard shall be final. BRPL at its own desecration may also cancel the order at the risk and cost of the manufacturer if the material fails twice in the type test. |

TECHNICAL SPECIFICATIONS OF CHEMICAL EARTHING

| | |
|-------|---|
| 5.3.3 | Type test shall be done from CPRI/ERDA. Ensure that the tests can be completed in these laboratories within the time schedule guaranteed by them in the appropriate schedule. BRPL reserves the right to specify the name of the laboratory also, if so felt. |
| 5.3.4 | The entire cost of testing for the acceptance and routine tests and tests during manufacture specified herein shall be treated as included in the quoted unit price of conductor. |

5.4 ADDITIONAL TESTS

BRPL reserves the right of getting done any other test(s) of reasonable nature carried out at Manufacturer's premises, at site, or in any other place/ third party lab in addition to the aforesaid type, acceptance and / or routine tests to satisfy with the fact that the material comply with the specifications. In such case all the expenses will be to Manufacturer's account.

5.5 TEST REPORTS

| | |
|-------|--|
| 5.5.1 | Soft copies of type test reports shall be furnished through mail only. BRPL may ask original type test report to verify soft copy. BRPL will not receive any hard copy for their office record. BRPL will give final dispatch clearance after validating type test report. |
| 5.5.2 | Record of routine test reports shall be maintained by the Manufacturer at their works for periodic inspection by the BRPL's representative and shall be reviewed during inspection. |
| 5.5.3 | Test Certificates of tests done during manufacturing shall be maintained by the Bidder. These shall be produced for verification as and when desired by the BRPL. |

6.0 INSPECTION

| | |
|-------|--|
| 6.0.1 | BRPL representative shall at all times be entitled to have access to the works and all places of the manufacturer and the representative shall have full facilities for unrestricted inspection of the Manufacturer's works, raw materials, store process and process of manufacture and conducting necessary tests as may be deemed fit, for certifying the quality of product. |
| 6.0.2 | The Manufacturer shall keep BRPL informed in advance of the time of starting and of the |

TECHNICAL SPECIFICATIONS OF CHEMICAL EARTHING

| | |
|-------|---|
| | progress of manufacturing of materials in its various stages so that arrangements can be made for inspection. |
| 6.0.3 | No material shall be dispatched from its point of manufacture and works before it has been satisfactorily inspected, tested, and necessary dispatch instructions are issued in writing, except for the cases where waiver of inspection is granted by BRPL, and even in this case also, written dispatch instructions will be issued. Any dispatches before the issue of Dispatch Instructions in writing will be liable for rejection and non acceptance by the consignee. |
| 6.0.4 | The acceptance of any quantity of material shall in no way relieve the Manufacturer of any of his responsibilities for meeting all requirements of the specification, and shall not prevent subsequent rejection if such material is later found to be defective. |
| 6.0.8 | Only soft copy of inspection report shall be furnished by manufacturer through mail. BRPL shall not receive any hard copy of report for their office record. |

7.0 QUALITY ASSURANCE PLAN

7.1 The bidder shall invariably furnish following information along with his offer, failing which his offer shall be rejected.

| | |
|-------|--|
| 7.1.1 | Statement giving list of important raw materials, names of sub manufacturers for the raw materials, list of standards according to which the raw materials are tested, list of tests normally carried out on raw materials in presence of manufacturer's representative and as routine and / or acceptance during production and on finished goods, copies of test certificates. |
| 7.1.2 | Information and copies of test certificates as in mentioned above in respect of bought out accessories. |
| 7.1.3 | List of manufacturing facilities available. |
| 7.1.4 | Level of automation achieved and list of areas where manual processing exists. |
| 7.1.5 | List of areas in manufacturing process, where stage inspections are normally carried out for quality control and details of such tests and inspections. |
| 7.1.6 | List of testing equipment available with the Manufacturer for final and calibration certificate |



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TECHNICAL SPECIFICATIONS OF CHEMICAL EARTHING

| | |
|--------------|--|
| 7.1.7 | Testing of Earthing and its related accessories to be specified. In the case if the manufacturer does not possess all the Routine and Acceptance testing facilities, the bid / PO shall be rejected. |
| 7.1.8 | BRPL reserves the right for factory inspection to verify the quoted offer. If any of the facts are found to be misleading or incorrect the offer of that Bidder will be out rightly rejected and he may be black listed. |
| 7.1.9 | Special features provided to make it maintenance free. |

7.2 The bidder shall also submit following information to the BRPL along with the technical Bid.

| | |
|--------------|--|
| 7.2.1 | List of raw materials as well as bought out accessories, and the name of manufacturers of raw materials as well as bought out accessories. |
| 7.2.2 | Type test certificates of the raw material and bought out accessories. |
| 7.2.3 | Quality assurance plan (QAP) with hold points for BRPL's inspection. |

7.3 The Manufacturer shall submit the routine test certificates (only soft copy through mail) of all the bought-out items, accessories etc.

NOTE: Final QAP shall be approved by BRPL.

8.0 DOCUMENTATION

Submission of drawings, calculations, catalogues, manuals, test reports shall be as mentioned below:

8.1 Drawing, Data and Manuals

The vendor shall submit-

- Cross sectional drawing
- GTP (all data to appear)
- Type test certificates
- Fault level calculation

Document Submission

Submission of drawings, calculations, catalogues, manuals, test reports shall be as follows.

Legend:

GTP : Guaranteed Technical Particulars



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TECHNICAL SPECIFICATIONS OF CHEMICAL EARTHING

TTR : Type Test Report

RTR : Routine Test Report

| | Documents along with offer | After award of contract for approval | Final documents(after Approval) |
|---------------------|-----------------------------------|--------------------------------------|---------------------------------|
| GTP | 1 copies | ** 1 soft copy | ** 1 soft copy + CD |
| Drawings | 1 copies | ** 1 soft copy | ** 1 soft copy + CD |
| Calculations | 1copies | ** 1 soft copy | ** 1 soft copy + CD |
| Catalogues & Manual | 1 copy each | | ** 1 soft copy + CD |
| Test Report | 1 copy each of TTR and sample RTR | | ** 1 soft copy + CD |

** Soft copy and CD shall contain documents duly approved, signed and scanned

9.0 PACKING & FORWARDING

| | | |
|-------|----------------------|--|
| 9.0.1 | Shipping Information | The seller shall give complete shipping information concerning the weight, size of each package |
| 9.0.2 | Transit damage | The seller shall be responsible for any transit damage due to improper packing |
| 9.0.3 | Markings | <ul style="list-style-type: none"> • PO number and date • SAP item code • Manufacturer's name • Buyer's name |
| 9.0.4 | Delivery Schedule | <ul style="list-style-type: none"> • Delivery period Start Date : From date of LOI / LOA • Delivery period End Date : As agreed with manufacturer • Material dispatch Clearance : After inspection by purchaser |
| 9.0.5 | Accessories | • Accessories shall be packed separately item wise with proper protection to prevent damage and easy handling. |



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TECHNICAL SPECIFICATIONS OF CHEMICAL EARTHING

| | |
|--|---|
| | <ul style="list-style-type: none">• Marking• Material description• Type• Dimension• PO number and date• SAP item code• Total weight• Manufacturer's name• Buyer's name• Month and year of manufacturing• Storage type |
|--|---|

10.0 DEVIATIONS

10.0.1 Deviations from this specification shall be listed separately by bidder clause wise (format given below) along with optional offer and has to submit the list along with bid/quotation. BRPL will review the deviations and if BRPL is agreed with the deviation, seller has to take written confirmation from BRPL on deviation during tender evaluation.

10.0.2 In the absence of any separate list of deviations from the bidders with bid as well as written confirmation from BRPL on deviations, it will be assumed by the Buyer that the Seller complies with the Specification fully.

10.0.3 Any deviations mentioned in any other submitted bid documents (i.e.in filled GTP, Catalog, BRPL old approval, buyer's/seller's standards etc) by seller without separate deviation sheets will not consider as a deviation from this tech spec at any stage of contract.

Deviation Sheet Format-

| S.no | Document Name | Clause No. | Deviation | Reason | Merits to BRPL |
|-------------|----------------------|-------------------|------------------|---------------|-----------------------|
| | | | | | |
| | | | | | |
| | | | | | |

ANNEXURE-A GUARANTEED TECHNICAL PARAMETERS



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TECHNICAL SPECIFICATIONS OF CHEMICAL EARTHING

Note:

- 1) Every data shall be mentioned.
- 2) Seller may submit separate GTP for the earthing, as suitable.
- 3) GTP shall be read in line with purchaser's Project Site Specific Requirement.

TECHNICAL DATASHEET FOR EARTHING

| S.No. | Parameter | BRPL requirement | Vendor data |
|-------|--|---|-------------|
| 1 | Name ,Address and ph no of Manufacturer | | |
| 2 | Ref IS No | IS 1239 (Part -1) 2004 | |
| 3 | Type (Light, Medium, Heavy) Medium, B class | NA | |
| 4 | Size of copper bonded rod | 17.2 mm | |
| 5 | Copper coating thickness | 250 micron | |
| 6 | UL marking | Yes/No | |
| 7 | CPRI/ERDA Type tested | | |
| 6 | Length of Pipe | 3 mtr | |
| 11 | Size of copper clad rod | 18mm | |
| 12 | Coating thickness (Min) | 250Microns(min) | |
| 13 | Earth enhancing material | 25kg/bag | |
| 14 | Plyplastic cover | Yes/no | |
| 15 | Exothermic Joint | L,T and cross joint. | |
| 16 | Exothermic accessories | Yes/no | |
| 17 | GI Nuts and bolts | Yes/no | |
| 18 | Make of steel | SAIL /ESSAR/ TATA | |
| 19 | Embossing details | Name/logo of manufacturer, PO No., ISI, Class of tube i.e. M for Medium, Color of band (PO no provided in stencil), UL marked | |
| 17 | Colour Coding | BLUE colour band at both ends | |

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TECHNICAL SPECIFICATIONS OF CHEMICAL EARTHING**TECHNICAL DATASHEET FOR EARTHING**

| S.No. | Parameter | BRPL requirement | Vendor data |
|-------|-------------------------------|------------------|-------------|
| 19 | Details of Drawings submitted | | |
| 20 | Chemical composition Test | As per IS 1239-1 | |
| 21 | Test | As per IS 1239-1 | |

Technical Requirement

| Sl no | Descriptions | Bidders Data |
|----------|------------------------------|--|
| A | Technical Requirement | 1) Mesh resistance shall be less than 5 ohm |
| | | 2) Fault current sustainability shall be 30.68 KA for 1 sec |
| | | 3) Enhancing material shall be leaching free |
| | | 4) All materials shall be corrosion free. |
| | | 5) Warranty for maintaining pit resistance below 5 ohm- 10 years minimum. pit resistance shall be verified every 6 months by bidder. |
| | | 6) Copper bonded rod and copper clad steel shall be CPRI/ERDA tested and UL marked |
| B | Materials | 1) Minimum dimension of copper bonded rod shall be 17.2 mmX3 Mtr. copper coating 250 micron. UL mark is mandatory |
| | | 2) Pit shall be filled completely by earth enhancement material. 25Kg chemical shall be packed per bag |
| | | 3) Polyplastic pit cover shall be provided. test report to submitted for review. |
| | | 4) Inspection joint to be provided. |
| | | 5) Exothermic joint (L,T and Cross Joint) |
| | | 6) Exothermic Accessories |
| | | 7) Copper Bonded steel (18mm dia) |
| | | 8) 50x6 GI Strip |



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TECHNICAL SPECIFICATIONS OF CHEMICAL EARTHING

| | | | |
|----------|-----------------|---|--|
| C | Services | 1) All the drawings and installation manual to be submitted to CES for approval. | |
| | | 2) All kind of activity including tools for pit installation, resistance measurement shall be in bidder scope. | |
| | | 3) Exothermic welding, welding accessories | |
| | | 4) Nuts and bolt for connection of GI strips with equipments | |
| | | 5) Each pit resistance shall be verified by BSES. record of resistance value to be maintained by bidder and same shall be submitted to CES. | |
| | | 6) Laying of 50X6 mm GI strip shall be in bidder scope- for connection of equipments | |
| | | 7) Laying of copper clad rod below 500mm depth for formation of mesh | |
| | | 8) Chemical earthing kit (copper bonded rod, chemical and polyplastic pit cover) installation | |

11.0 SCOPE DEMARCATION

Supply:

| Sl no | Descriptions | BRPL | Vendor | Remarks |
|-------|---|------|--------|---------|
| 1 | Chemical Earthing Kit (Copper Bonded Rod, 25 kg chemical and Polyplastic Pit Cover) | X | √ | |
| 2 | Copper Bonded Steel conductor for mesh formation | X | √ | |
| 3 | Exothermic Joint | X | √ | |
| 4 | Exothermic Joint Accessories | X | √ | |
| 5 | 50X6 GI Strip | √ | X | |
| 6 | GI Bolt required for connecting the GI strip with equipment | X | √ | |

Services:

| Sl no | Descriptions | BRPL | Vendor | Remarks |
|-------|--------------|------|--------|---------|
|-------|--------------|------|--------|---------|

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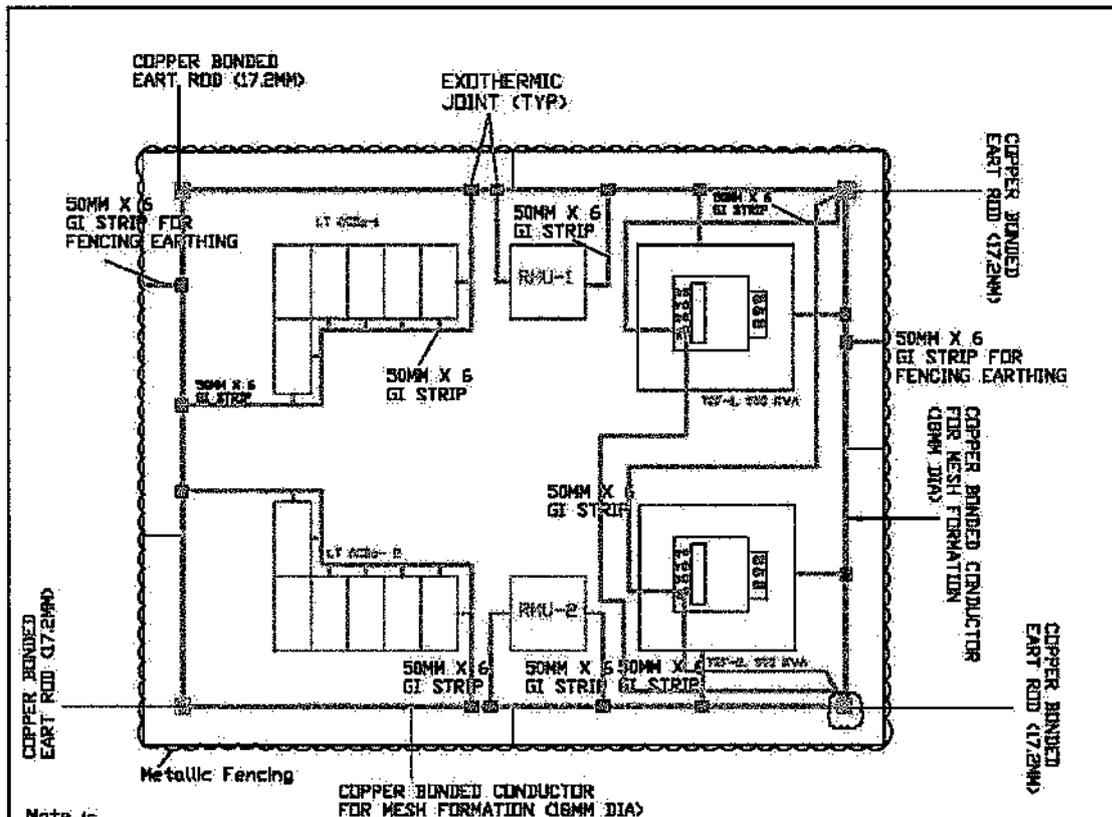
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TECHNICAL SPECIFICATIONS OF CHEMICAL EARTHING

| SI no | Descriptions | BRPL | Vendor | Remarks |
|-------|---|------|--------|---------|
| 1 | Transportation of all kind of materials from BRPL store to site | X | √ | |
| 2 | Vehicle arrange for material transport | X | √ | |
| 3 | Digging of Pit | X | √ | |
| 4 | Installation of pit | X | √ | |
| 5 | Digging for laying of copper bonded steel at 500mm depth for mesh formation | X | √ | |
| 6 | Laying of copper bonded rod | X | √ | |
| 7 | Exothermic jointing | X | √ | |
| 8 | Connecting of equipment to mesh by 50X6 GI strip | X | √ | |
| 9 | GI Bolting | X | √ | |
| 10 | Any kind of drilling, hole making, welding for the job | X | √ | |
| 11 | Measurement of soil resistivity | X | √ | |
| 12 | Measurement of mesh resistance after finishing of earthing work (mesh resistance must be less than 5 ohm) | X | √ | |
| 13 | MOM after job finishing | X | √ | |
| 14. | All kind of instrument, equipment required for job execution and for finishing | X | √ | |
| 15 | PPE for workers | X | √ | |
| 16 | Returning of scrap to BRPL store if any | X | √ | |
| 17 | Backfilling of trench, pit etc. | X | √ | |
| 18 | Filling material reservation slip (MRS) in SAP | √ | x | |
| 19 | BOQ estimation for Earthing work (type, size and length of GI strip,) | √ | x | |
| 20 | Dismantling of existing earthing if any | X | √ | |

TECHNICAL SPECIFICATIONS OF CHEMICAL EARTHING

ANNEXURE-B. GENERAL ARRANGEMENT DRAWING OF CHEMICAL EARTHING



Note :-

1. Earthing Kit shall consist of 17.2mm Copper Bonded Rod , 25KG Chemical per Bag,Poly Plastic Pit Cover.
2. All the Joint at Mesh side shall be Exothermic Joint.
3. 50x6 GI Streep Shall be Used to connect the equipment to Mesh.
4. GI Bolt shall be used to connect the GI Strip with equipment.
5. Copper Bonded Steel Shall be used to form the Mesh.

| | |
|----------|----------|
| DRAWN | SUMIT |
| CHECKED | P.B |
| REVIEWED | A.T |
| APPD. | S.K |
| DATE | 19.09.18 |

TITLE:-
GA DRAWING OF CHEMICAL
EARTHING

BSES
BSES Rajdhani Power Limited

DWG No.: BSES-IL-001, R0

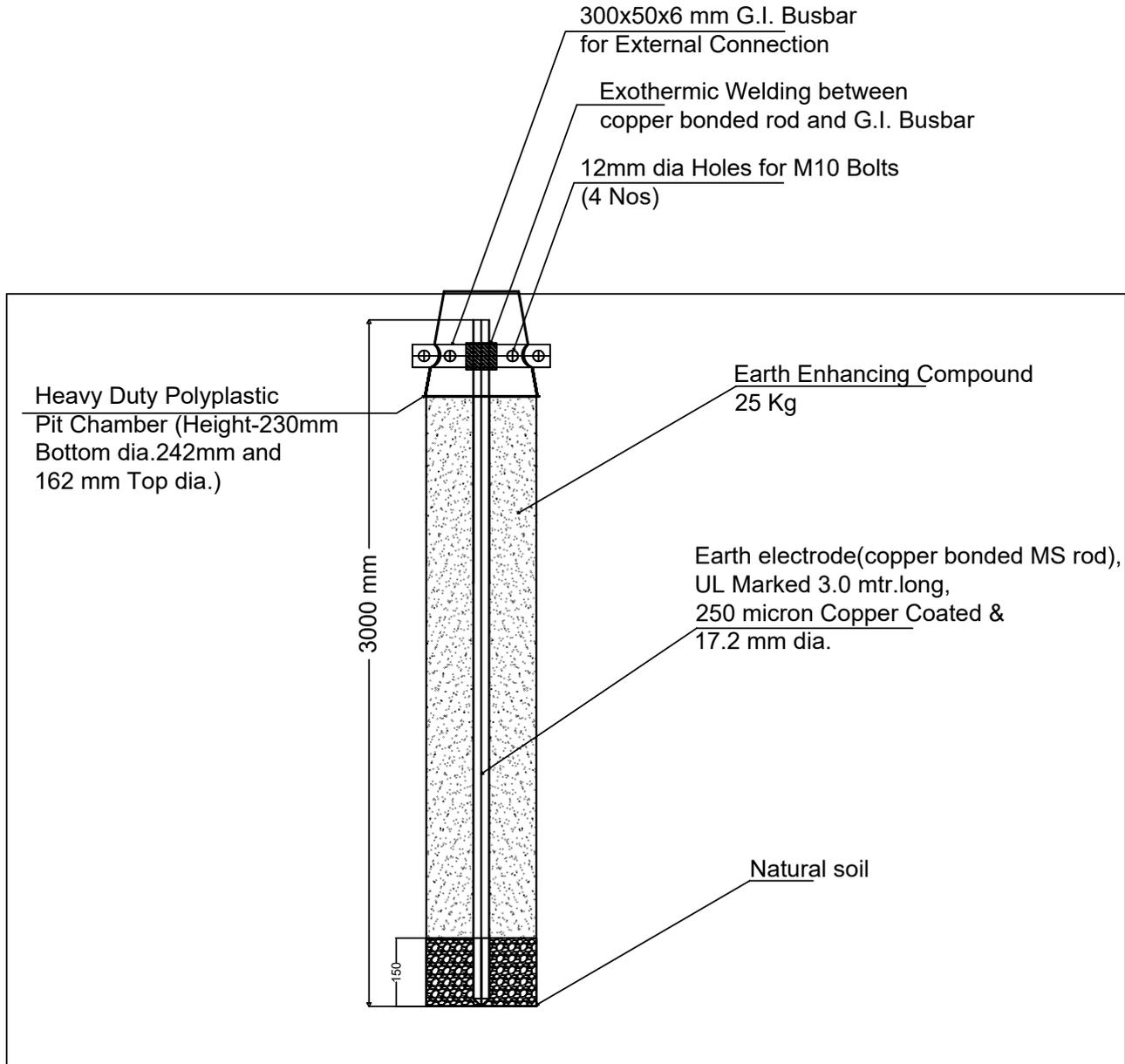
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ANNEXURE - A



CHEMICAL EARTHING

Note:

1. Kit content

- a. 17.2mm dia, 3mtr. long copper bonded rod (250 micron copper coated) with 300x50x6 G.I. Busbar T-connection (T-connection with Exothermic Welding)
- b. Earth enhancing compound.(25kg/bag).
- c. Heavy duty Poly plastic pit cover.

2. Following information shall be printed by laser / engrave method marked on Rod

- Manufacturer name
- Customer name
- Month / Year of manufacturing
- UL Mark
- P.O. No. & Date
- Dia- 17.2mm, Length-3mtr., Thickness copper coated-250micron

| | | | |
|----------|------------|--------------------------|--|
| DRAWN | R.K. | TITLE:- | BSES BSES Rajdhani Power Ltd. DWG NO. |
| CHECKED | G.D. | CHEMICAL EARTHING | |
| REVIEWED | P.B. | | |
| APPD | A.T. | | |
| DATE | 22.02.2022 | | |