



Tender Notification for

Supply of XLPE Insulated different type of conductor

NIT NO CMC/BR/22-23/RB/PR/FH/0985, **DT 15.02.2022**

Due Date for Submission: 07.03.2022 1600 HRS

BSES RAJDHANI POWER LIMITED,
BSES Bhawan, Nehru Place, New Delhi-110019 Corporate
Identification Number: U74899DL2001PLC111527
Telephone Number: +91 11 3009 9999
Fax Number: +91 11 2641 9833 Website:
www.bsesselhi.com

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

BRPL invites sealed tenders in 2 envelopes for SUPPLY OF XLPE INSULATED DIFFERENT TYPES OF CONDUCTOR from reputed manufacturers. The bidder must qualify the technical requirements as specified in clause 2.0 stated below. All envelopes shall be duly superscribed as — “SUPPLY OF XLPE INSULATED DIFFERENT TYPES OF CONDUCTOR “**NIT NO CMC/BR/22-23/RB/PR/FH/0985, DT 11.02.2022**

Sl.	Items	Technical Specification	Estimated Cost	Qty	Delivery
1	Supply of XLPE Insulated Dog conductor	GN101-03-SP-74-00	1.78	96	New Delhi Stores
2	Supply of XLPE Insulated Rabbit conductor			9	
3	Supply of XLPE Insulated Squirrel conductor			12	
4	CNDCTR,ACSR ZEBRA UNINSUL			0.5	

Note: Individual Drum Quantity may vary $\pm 5\%$. There will be no positive tolerance on the overall total order quantity. However (-) 2% will be allowed on overall order quantity.

The schedule of specifications with detail terms & conditions can be obtained from address given below against submission of non-refundable demand draft of **Rs.1180/- (With GST)** drawn in favour of BSES Rajdhani Power Ltd, payable at Delhi. The tender documents & detail terms and conditions can also be downloaded from the website “www.bsedelhi.com --> **Tenders --> BSES Rajdhani Power Ltd --> Open Tenders**”.

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.

The bids shall be addressed to:

Head of Department
Contracts & Materials Deptt. BSES Rajdhani Power
Ltd. C&M Deptt.
1st Floor, C Block
BSES Bhawan, Nehru Place
New Delhi 110019

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 by (\pm) 30% at the time of placing purchase orders.

Tender will be summarily rejected if:

- **Earnest Money Deposit (EMD)** of value INR **3,56,000/-** is not deposited in shape of Bank Draft/Pay Order/Banker's Cheque/BG drawn in favour of BSES Rajdhani Power Ltd, payable at Delhi.
- The offer does not contain “FOR NEW DELHI” price indicating break-up towards all taxes, duties & freight.
- Complete Technical details are not enclosed.
- Tender is received after due date and time.

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 BRPL has a right to disqualify those bidders who do not meet these requirements.

- The bidder must be a manufacturer of ACSR Conductor.
- The bidder should have manufacturing capacity of minimum 30-40kms per month.
- The bidder should have qualified technical & qualified QA personnel at various stages of manufacture & testing.
- Bidder should have Average Annual Sales Turnover of Rs 200.00 Crores or more in last 3 Years (FY18-19, 19-20 & 20-21)
- The bidder should have supplied at least 500 Kms of ACSR Dog to any major Utilities / SEB in last 3 years. Out of the above, 50% must be in successful operation at least for 2 years. Performance Certificate shall be furnished as a backup to this
- The bidder must possess valid ISO 9001:2000 certification and must possess valid BIS License.
- In case of new bidders (not enlisted in BSES), Factory inspection & evaluation shall be carried out to ascertain bidder's manufacturing capabilities and quality procedures.
- The bidder must submit an undertaking (self certificate) that the bidder has not been blacklisted / debarred by any central / state government institution including electricity boards/transmission/distribution utilities.

NOT: - For Sl. No-5 of qualification criteria data to be submitted as per annexure-VII

Bidding and Award Process.

Bidders are requested to submit their offer strictly in line with this tender document. **NO DEVIATION IS ACCEPTABLE.** BRPL shall respond to the clarifications raised by various bidders and the same will be intimated to all participating bidders through website.

BID SUBMISSION

The bidders are required to submit the bids in 2(two) parts and submitted in 1 original + 1 duplicate to the following address

Head of Department
Contracts & Material Deptt.
BSES Rajdhani Power Ltd 1st Floor,
C Block, BSES Bhawan, Nehru Place New Delhi
110019

PART A: TECHNICAL BID comprising of following (in duplicate)

EMD
Non-refundable demand draft for Rs 1180/- in case the forms are downloaded from website
Documentary evidence in support of qualifying criteria
Technical Literature/ GTP/Type test report etc



Qualified Manpower available
Testing Facilities
Original Tender documents duly stamped & signed on each page as token of acceptance
Acceptance to Commercial Terms and Conditions viz Delivery schedule/period, Payment terms, BG etc
Power of Attorney for signing the bid

PART B: FINANCIAL BID comprising (1 original only)

- ✓ Price strictly in the Format enclosed in SECTION V indicating Break up of basic price, taxes & duties, Freight etc

TIME SCHEDULE

The bidders should complete the following within the dates specified as under:

S.No.	Steps	Date
1	Date of sale of bid documents	15.02.2022 onward
2	Last date of Queries, if any	22.02.2022 1500hrs
3	Last date of receipt of bid documents	07.03.2022 1500hrs
4	Date & time of opening of tender – Part A	07.03.2022 1600hrs
5	Date & Time of opening of Part B of qualified bidders	Only Successful bidders

NOTE: In case last date of submission of bids & date of opening of bids is declared as holiday in BRPL office, the last date of submission will be following working day at the same time.

This is a two part bid process. Bidders are to submit the bids in 2(two) parts.

Both these parts should be furnished in separate sealed covers super scribing NIT no. DUE DATE OF SUBMISSION, with particulars as **PART-A TECHNICAL BID & COMMERCIAL TERMS & CONDITIONS** and **Part-B "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

Part – A: Technical Bid should not contain any cost information whatsoever and shall be submitted within the due date.

PART B: This envelope will be opened after techno-commercial evaluation and only of the qualified bidders. 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.

Part –C: E- Bidding and Reverse Auction through SAP-SRM Module

Purchase reserves the right to use the reverse auction through SAP-SRM tool as an integral part of the entire tendering process. All the bidders who are techno-commercial qualified on the basis of tender requirements shall participate in reverse auction.

Notwithstanding anything stated above, the Purchaser reserves the right to assess bidders 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.

BIDS RECEIVED AFTER DUE DATE AND TIME MAY BE LIABLE TO REJECTION



Award Decision

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.

In the event of your bid being selected by purchaser (and / or its affiliates) and you 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 NIT/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.

QTY 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

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 violates the marketplace rules or engage in behavior that disrupts the fair execution of the market place 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/NIT.

6.0 Supplier Confidentiality

All information contained in this RFQ is confidential and shall 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

Technical clarification, if any, as regards this RFQ shall be sought in writing and sent by post/courier to following address. The same shall not be communicated through email/phone

Contact Person	Technical	Commercial
	to CES	To:- faiyaz.hussain@relianceada.com
	Copy to : Pankaj Goyal	Copy to : Pankaj Goyal
Address	BSES RAJDHANI Power Ltd ,5th Floor , 20 No Building, Nehru Place,New Delhi 110019	C&M Deptt. 1st Floor , D-Block, BSES RAJDHANI Power Ltd BSES Bhawan, Nehru Place, New Delhi 110019
Email	Amit.as.tomar@relianceada.com	Pankaj.goyal@relianceada.com

SECTION – II: INSTRUCTION TO BIDDERS

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 material 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/IS along with Packing, Forwarding, Transportation and Unloading and proper stacking at Purchaser's stores/site.

DISCLAIMER

- 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.

- 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 a rising in any way from the selection process for the Supply.

- 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.

- 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 DOCUMENTS

The Scope of Work, Bidding Procedures and Contract Terms are described in the Bidding Documents are as follows:

Volume - I

- Request for Quotation (RFQ) - Section - I
- Instructions to Bidders (ITB) - Section - II
- Terms & Conditions of Contract (T&C) - Section -III
- Delivery schedule - Section IV
- Technical Specifications (TS) - Section V (Pages Enclosed)

- Price Format - Annexure -I
- Bid Form - Annexure -II
- Acceptance Form for Reverse Auction - Annexure-III
- EMD BG Format - Annexure -1V
- Commercial Terms & Conditions- Annexure -V
- No Deviation Sheet - Annexure -VI

5.00 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.

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 6.01, and it will be notified in web site [w ww.bsesdelhi.com](http://www.bsesdelhi.com) and the same will be binding on them.

- 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. The same shall be published as a corrigendum in website www.bsesdelhi.com

- Purchaser shall reserve the rights to following

- extend due date of submission
- modify tender document in part/whole
- cancel the entire tender

Bidders are requested to visit website regularly for any modification/clarification/ corrigendum/addendum of the bid documents

C. PREPARATION OF BIDS

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.



DOCUMENTS COMPRISING THE BID

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

Bid Form, Price & other Schedules (STRICTLY AS PER FORMAT) and Technical Data Sheets completed in accordance with Technical Specification.

All the Bids must be accompanied with the required EMD as mentioned in the Section-I against each tender.

Tender documents duly stamped and signed on each page by authorized signatory.

9.0 BID FORM

The Bidder shall submit **one Original and one Copy** of the Bid Form and the appropriate Price Schedules and Technical Data Sheets duly filled in as per attached specification (Section VIII) enclosed with the Bidding Documents.

EMD

Pursuant to Clause 8.0(b) above, the bidder shall furnish, as part of its bid, a EMD amounting to as specified in the Section-I. The EMD is required to protect the Purchaser against the risk of Bidder's conduct which would warrant forfeiture.

The EMD shall be denominated in any of the following form:

Banker's Cheque/Demand Draft/Pay Order drawn in favour of BSES Rajdhani Power Ltd, payable at Delhi.

A bank guarantee issued by any scheduled bank strictly as per the format enclosed and shall be valid for a period of thirty (30)days beyond the validity of the bid

The EMD may be forfeited in case of:

- ✓ the Bidder withdraws its bid during the period of specified bid validity
- or
- ✓ the case of a successful Bidder, if the Bidder does not
 - accept the Purchase Order, or
 - Furnish the required performance security BG.

BID PRICES

- 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.

- 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/Price Variation Clause will be treated as non-responsive and rejected.**

11.0 BID CURRENCIES

Prices shall be quoted in Indian Rupees Only.

12.0 PERIOD OF VALIDITY OF BIDS

12.01- Bids shall remain valid for 120 days from the due date of submission of the Bid.

12.02 -Notwithstanding Clause 12.01 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 and sent by post/courier

13.0 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 regarding the rejection of Bids in the terms and conditions, which are not substantially responsive to the requirements of the Bidding Documents.

14.0 FORMAT AND SIGNING OF BID

The original Bid Form and accompanying documents (as specified in Clause 9.0), clearly marked "Original Bid" plus one copy must be received by the Purchaser at the date, time and place specified pursuant to Clauses 15.0 and 16.0. In the event of any discrepancy between the original and the copies, the original shall govern.

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.

14.02 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

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.

The Technical Documents and the EMD shall be enclosed in a sealed envelope and the said envelope shall be super scribed with —**Technical & EMD**". The price bid shall be inside another sealed envelope with super scribed as "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 super scribed with —"Tender Notice No.& Due date of opening".

The Bidder has the option of sending the Bids in person. Bids submitted by Email/Telex/Telegram /Fax will be rejected. No request from any Bidder to the Purchaser to collect the proposals from Courier/Airlines/Cargo Agents etc shall be entertained by the Purchaser.



16.0 DEADLINE FOR SUBMISSION OF BIDS

The original Bid, together with the required copies, must be received by the Purchaser at the address specified no **later than the due date specified earlier**

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 by itself. No Joint Venture is acceptable. A Bidder who submits or participates in more than one Bid will cause all those Bids to be rejected.

18.0 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 may be rejected and returned unopened to the Bidder.

19.0 MODIFICATIONS AND WITHDRAWAL OF BIDS

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

E. EVALUATION OF BID

20.0 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.

21.0 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.

22.0 PRELIMINARY EXAMINATION OF BIDS / RESPONSIVENESS

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. Purchaser may ask for submission of original documents in order to verify the documents submitted in support of qualification criteria.

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.

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.



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

The evaluation of Bids shall be done based on the delivered cost competitiveness basis.

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.

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:

- Delivery Schedule
- Conformance to Qualifying Criteria
- 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.

Any adjustments in price, which result from the above procedures, 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

If any Bidder wishes to contact the Purchaser on any matter related to the Bid, from the time of Bid opening to the time of contract award, the same shall be done in writing only.

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

Submission of bids shall not automatically construe qualification for evaluation. The Purchaser reserves the right to accept or reject any Bid and to annul the Bidding process and reject all Bids at any time prior to award 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.



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 to other bidders in the tender, provided it is required for timely execution of project & provided he agrees to come to the lowest rate. Purchaser reserves the right to distribute the entire tender quantity at its own discretion without citing any reasons thereof.

Splitting of tendered quantity among two or more bidders:

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

For arranging timely procurement of material and to have uniform practice of distribution of quantity amongst eligible bidders, following procedure shall be applicable:

The tender quantity shall be split in following ratio:

- (i) If the quantity is to be split among 2 bidders, it will be done in the ratio of 70:30 on L1 price.
- (ii) If the quantity is to be split among 3 bidders, it will be done in the ratio of 60:25:15 on L1 price.

Any deviation in regards to above will have deviation approval from management.

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 GAURANTEE

The successful Bidder shall furnish the Performance Bank Guarantee for an amount of 10% (Ten percent) of the Contract Price. The Performance Bond shall be valid for a period of 24 months from the date of Commissioning or 30 months from the date of last dispatch whichever is earlier plus 3 months claim period. Upon submission of the performance security, the EMD shall be released.

30.0 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:



- "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
 - "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 for award 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.

Furthermore, Bidders shall be aware of the provision stated in the Terms and Condition of Contract.

SECTION – III: TERMS AND CONDITIONS

1.0 General Instructions

All the Bids shall be prepared and submitted in accordance with these instructions.

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.

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.

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.

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.

Definition of Terms

"Purchaser" shall mean BSES Rajdhani Power Limited, on whose behalf this bid enquiry is issued by its authorized representative / officers.

"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.

"Supply" shall mean the Scope of Contract as described.



“Specification” shall mean collectively all the terms and stipulations contained in those portions of this bid document known as RFQ, Commercial Terms & Condition, and Instructions to Bidders, Technical Specifications and the Amendments, Revisions, Deletions or Additions, as may be made by the Purchaser from time to time.

“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.

“Month” shall mean the calendar month and “Day” shall mean the calendar day.

“Codes and Standards” shall mean all the applicable codes and standards as indicated in the Specification.

“Offer Sheet” shall mean Bidder’s firm offer submitted to BRPL in accordance with the specification.

“Contract” shall mean the “Letter of Acceptance/Purchase Order” issued by the Purchaser.

“Contract Price” shall mean the price referred to in the “Letter of Acceptance/Purchase Order”.

“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.

“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.

4.0 Scope of Supply -General

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.

Bidder shall have to quote for the Bill of quantities as listed in Section – IV of this RFQ.

Quantity variation and additional requirement if any shall be communicated to successful bidder during project execution.

All relevant drawings, data and instruction manuals.



5.0 Quality Assurance and Inspection

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. In case of standard items, BRPL shall forward the standard QAP which is to be followed by vendor during manufacturing.

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 to proceed with the work past a hold point only after clearance by purchaser or a witness waiver letter from BRPL.

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.

On completion of manufacturing the items can only be dispatched after receipt of dispatch instructions issued by the Purchaser.

All in-house testing and inspection shall be done without any extra cost. The in-house inspection shall be carried out in presence of BSES/BSES authorized third party inspection agency. Cost of Futile/abortive visit(s) shall be debited from the invoices.

Purchaser reserves the right to send any material being supplied to any recognized laboratory for testing, wherever necessary and the cost of testing shall be borne by the Bidder. 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 bidder's representative.

6.0 Packing, Packing List & Marking

Packing: Supplier shall pack or shall cause to be packed all Commodities in crates/boxes/drums/containers/cartons and otherwise in such a manner as shall be reasonably suitable for shipment by road or rail to BRPL, Delhi/New Delhi stores/site without undue risk of damage in transit.

Packing List: The contents of each package shall be itemized on a detailed list showing the exact weight, extreme outside dimensions (length, width and weight) of each container/box/drum/carton, Item SAP Code, PO No & date. One copy of the packing list shall be enclosed in each package delivered.

7.0 Price basis for supply of materials

Bidder to quote their prices on Landed Cost Basis and separate price for each item. FIRM prices for supply to BRPL site/ stores inclusive of packing, forwarding, loading at manufacturer's premises, Freight & GST.



The above supply prices shall also include unloading at BRPL Delhi/New Delhi stores/site.

Transit insurance will be arranged by Purchaser; however bidder to furnish required details in advance for arranging the same by Purchaser.

Terms of payment and billing

For Supply of Equipments:

100% payment shall be made within 45 days from the date of receipt of material at store/site

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 issued by the inspection authority
- v.** Packing List.
- vi.** Test Reports
- vii.** Guarantee Certificate.

9.0 Price Validity

9.01 All bids submitted shall remain valid, firm and subject to unconditional acceptance by BRPL Delhi as mentioned earlier, the prices shall remain valid and firm till contract completion.

10.0 Performance Guarantee

The bidder 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 24 months from the date of Commissioning or 30 months from the date of last dispatch whichever is earlier plus 3 months claim period.

Bank guarantee shall be drawn in favour of BSES Rajdhani Power Ltd as applicable. The performance Bank guarantee shall be in the format as specified by BRPL.

11.0 Forfeiture

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 relevant bank referred to above, together with a simple statement that supplier has failed to comply with any term or condition set forth in the Contract.

Each Performance BG 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.

12.0 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.

13.0 Warranty/Defects Liability Period

13.01 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 60 months from the date of commissioning or 66 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.

14.0 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.

15.0 Effective Date of Commencement of Contract:

15.01 The date of the issuance of the Letter of Acceptance/Purchase Order shall be treated as the effective date of the commencement of Contract.

16.0 Time – The Essence of Contract

16.01 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.

17.0 The Laws and Jurisdiction of Contract:

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

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

Events of Default

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.

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.

20.0 Penalty for Delay

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 basic (ex-works) price for every week delay or part thereof for individual mile stone deliveries.

The total amount of penalty for delay under the contract will be subject to a maximum of ten percent (10%) of the basic (ex-works) price

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.

21.0 Statutory variation in Taxes and Duties

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, in case of reduction in taxes, duties and levies, the benefits of the same shall be passed on to BUYER.

Force Majeure

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.

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:

- (i) The following events and circumstances:
 - a) Effect of any natural element or other acts of God, including but not limited to storm, flood, earthquake, lightning, cyclone, landslides or other natural disasters.
 - b) Explosions or fires
- (ii) War declared by the Government of India, provided that the ports at Mumbai are declared as a war zone.
 - i. Dangers of navigation, perils of the sea.

Notice of Events of Force Majeure If a force majeure event prevents a party from performing any obligations under the Contract in part or in full, that party shall:

- i)** Immediately notify the other party in writing of the force majeure events within 7(seven) working days of the occurrence of the force majeure event
- ii)** Be entitled to suspend performance of the obligation under the Contract which is affected by force majeure event for the duration of the force majeure event.
- iii)** Use all reasonable efforts to resume full performance of the obligation as soon as practicable
- iv)** Keep the other party informed of all such efforts to resume full performance of the obligation on a regular basis.
- v)** Provide prompt notice of the resumption of full performance or obligation to the other party.

Mitigation of Events of Force Majeure Each Party shall:

- 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;
- 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
- 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.

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.

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.

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.

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.

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."

23.0 Transfer and Sub-Letting

23.01 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.

24.0 Recoveries

24.01 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 deducting 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

25.0 Waiver

Failure to enforce any condition herein contained shall not operate as a waiver of the condition itself or any subsequent breach thereof.

Indemnification

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

SECTION – IV:

QUANTITY AND DELIVERY REQUIREMENT

S. No	Item Description	Specification	Requirement		Location
			Total Qty. (KM)	Delivery Schedule	
BSES RAJDHANI POWER LIMITED					
1	Supply of XLPE Insulated Dog conductor	GN101-03-SP-74-00	96	3-4 month	New Delhi Stores
2	Supply of XLPE Insulated Rabbit conductor		9		
3	Supply of XLPE Insulated Squirrel conductor		12		
4	CNDCTR,ACSR ZEBRA UNINSUL		0.5		



SECTION – V

TECHNICAL SPECIFICATION (TS)

Supply of XLPE Insulated different type of conductor

NIT NO CMC/BR/22-23/RB/PR/FH/0985, **DT 15.02.2022**

BSES

BSES RAJDHANI POWER LIMITED

TECHNICAL SPECIFICATIONS

FOR

ACSR CONDUCTORS (Insulated & Bare)

Specification No.: GN101-03-SP- 74-00

Prepared by:	Naved Ahmed	<i>Naved Ahmed</i>	Date: 06-Mar-17
Reviewed by:	Amit Tomar	<i>Amit Tomar</i> 15.03.17	Revision - 00
Approved by:	Vijay Panpalia	<i>Vijay Panpalia</i> 15/03/17	No. of Pages - 18

Central Engineering Services, BSES Rajdhani Power Limited, Building No. 20, Nehru Place,
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TECHNICAL SPECIFICATIONS OF ACSR CONDUCTORS

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TECHNICAL SPECIFICATIONS OF ACSR CONDUCTORS**1. SCOPE**

1.1 This specification covers the design, manufacture, testing at manufacturer's works, packing and delivery at site of the ACSR conductor along with necessary accessories.

1.2 The conductor and its accessories shall be complete with all fittings and components necessary for the effective working and efficient performance and satisfactory maintenance under the various operating conditions specified. All such parts shall be deemed to be included within the scope of supply where specifically included or not in this specification in the tender schedule. The successful bidder shall not be eligible for any extra charge for such accessories.

1.3 The specification includes both Insulated & un-insulated ACSR Conductor. Following table suggests the requirement of conductors under Insulated and Un-insulated type:

Conductor Name	Zebra	Goat	Panther	Wolf	Dog	Rabbit	Squirrel
Insulated	X	X	X	X	√	√	√
Un-Insulated	√	√	√	√	√	√	√

2. CODES AND STANDARDS

2.1 All equipment and material shall be designed, manufactured and tested in accordance with the latest applicable Indian Standard, IEC standard and CBIP manuals enlisted in the appendix 1, except where modified and / or supplemented by this specification.

2.2 Equipment and material conforming to any other standard, which ensures equal or better quality, may be accepted. In such case copies of English version of the standard adopted shall be submitted by the vendor with the offer.

2.3 The electrical installation shall meet the requirement of Indian Electricity Rules as amended upto date, relevant IS code of practice and Indian electricity act. In addition other rules & regulations applicable to the work shall be followed. In case of any discrepancy the most stringent & restrictive one shall be binding.

2.4 The equipment offered shall in general comply with the latest issues including amendments of the standards enlisted in the appendix 1 but not restricted to it.

3. DESIGN**3.1 General**

3.1.1 All steel strands shall be smooth, uniform and free from all imperfections, such as spills and splits, die marks, scratches, abrasions and kinks after drawing and also after stranding.

3.1.2 The finished material shall have minimum brittleness, as it will be subjected to appreciate vibration while in use.

TECHNICAL SPECIFICATIONS OF ACSR CONDUCTORS

3.1.3 The steel strands shall be hot dip galvanized and shall have a maximum zinc coating of 240gms/sqm. after stranding. The zinc coating shall be smooth, continuous of uniform thickness, free from imperfections and shall withstand three and a half dips after stranding in standard Preece test.

3.1.4 The steel wire rod shall be of such quality and purity that, when drawn to the size of the strands specified and coated with zinc, the finished strands shall be of uniform quality and have the same properties and characteristic as prescribed in relevant ASTM/IS/IEC standards.

3.1.5 To avoid susceptibility towards wet storage stains (while rust), the finished material shall be provided with a protective coating of boiled linseed oil.

3.1.6 The finished conductor shall have a smooth surface without any surface cuts, abrasions, scuff marks and shall be free from dirt, grit etc.

3.1.7 The Steel wire shall be made from materials produced either by the acid or basic Open Hearth process or by electric process. No steel wire drawn from 'Bessemer Process' shall be used. The steel wire shall not contain sulphur or phosphorous exceeding 0.5% and the total of sulphur and phosphorous shall not exceed 0.085%.

3.1.8 The steel strands shall be performed and postformed in order to prevent spreading of strands in the event of cutting of composite core wire. Care shall be taken to avoid damages to galvanization during performing and postforming operations.

3.2 MATERIALS

3.2.1 The aluminium strands shall be hard drawn from electrolytic aluminium rods having a purity of not less than 99.5% and a copper content not exceeding 0.04%.

3.2.2 The steel wire strands shall be drawn from high carbon steel wire rods produced by either the acid or basic open hearth process, the electric furnace process, or the basic oxygen process and shall conform to the following requirements as to the chemical composition:

Element	% Composition
Carbon	0.50 to 0.85
Manganese	0.50 to 1.10
Phosphorus	Not more than 0.035
Sulphur	Not more than 0.045
Silicon	0.10 to 0.35

3.2.3 The zinc used in galvanizing shall be electrolytic high grade zinc of 99.95% purity. It shall conform to and satisfy all the requirements of IS/IEC.

3.3 STANDARD LENGTH

TECHNICAL SPECIFICATIONS OF ACSR CONDUCTORS

3.3.1 The standard length of the conductor shall be 3000 meters. A tolerance of +/-5% on the standard length offered by the Bidder shall be permitted. All lengths outside this limit of tolerance shall be treated as random lengths.

3.3.2 Random lengths will be accepted provided no length is less than 70% of the standard length and the total quantity of such random length shall not be more than 10% of the total quantity ordered. When one number random length has been manufactured at any time, five (5) more individual lengths, each equivalent to the above random length with a tolerance of +/-5% shall also be manufactured and all the above six random lengths shall be dispatched in the same shipment. At any point, the cumulative quantity supplied including such random lengths shall not be more than 12.5% of the total cumulative quantity supplied including such random lengths. However, the last 20% of the quantity ordered shall be supplied only in standard lengths as specified.

3.3.3 Bidder shall also indicate the maximum single length, above the standard length, he can manufacture in the guaranteed technical particulars of offer. This is required for special stretches like river crossing etc. The employer reserves the right to place orders for the above lengths on the same terms and conditions applicable for the standard lengths during the pendency of the Contract.

3.4 JOINT IN WIRES

3.4.1 Aluminium wires

No joints shall be permitted in the individual wires in the outer most layer of the finished conductor. However, joints in the 12 wire and 18 wire inner layer of the conductor shall be allowed but these joints shall be made by cold pressure butt welding and shall be such that no such way joints are within 15 meters of each other in the complete stranded conductor. The joints shall withstand a stress of not less than the breaking strength of individual strand guaranteed.

3.4.2 Steel Wires

There shall be no joint of any kind in the finished wire entering into manufacture of the strand nor strand joint or strand splices in any length of the complete stranded steel core of the conductor.

3.5 INSULATION

S. No.	Particulars	Data
1	Voltage Grade	1.1 kV
2	Insulation Material	XLPE
3	Nominal Thickness of Insulation	As per Table 3 of IS 7098 Part-1

4. QUALITY ASSURANCE

TECHNICAL SPECIFICATIONS OF ACSR CONDUCTORS

- 4.1 Vendor shall follow his standard procedures for quality assurance and control. These standard procedures including quality assurance plan shall be submitted to the purchaser for approval.
- 4.2 The procedures shall be in such a form as to clearly indicate the manufacturing sequence and major inspection points and to reference Bidder's test in inspection procedures.
- 4.3 Manufacturing and quality control procedures shall be available for audit to the Purchaser and/ or its representatives at the place of manufacture.
- 4.4 The Purchaser and/or its representative reserves the right to inspect the equipment at the point of manufacture and witness factory and other such tests as may be necessary to ensure conformance to the specification.
- 4.5 The Purchaser and / or its representative shall inspect the Vendor facilities prior to award of contract.
- 4.6 The Purchaser and/or its representative may conduct surveillance of the Vendor facilities for compliance to his standard procedures of quality assurance and quality control while work is in progress.

5. INSPECTION AND TESTING

5.1 INSPECTION

- 5.1.1 The purchaser's representative shall at all times be entitled to have access to the works and all places where conductor shall be manufactured and shall have full facilities for unrestricted inspection of the manufacturer works, raw materials and process of manufacture for conducting necessary tests as detailed herein.
- 5.1.2 The manufacturer shall keep the Employer informed in advance of the time of starting and of the progress of manufacture of conductor in its various stages so that arrangements can be made for inspection.
- 5.1.3 No material shall be dispatched from its point of manufacture before it has been satisfactory inspected and tested, unless the inspection is waived off by the purchaser in writing. In the latter case also the conductor shall be dispatched only after satisfactory testing for all tests specified herein have been completed.
- 5.1.4 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.

TECHNICAL SPECIFICATIONS OF ACSR CONDUCTORS**5.2 TESTS**

The following acceptance and routine tests and tests during manufacture shall be carried out on the conductor. For the purpose of this clause, the following shall apply

- i. Acceptance tests shall mean those tests which are to be carried out on samples taken from each lot offered for pre-dispatch inspection, for the purpose of acceptance of that lot.
- ii. Routine tests shall mean those tests, which are to be carried out on each strand/spool/length of the conductor to check requirements which are likely to vary during production.
- iii. Tests during manufacture shall mean those tests, which are to be carried out during the process of manufacture to ensure the desired quality of the end product.
- iv. For all acceptance tests, the acceptance values shall be the values shall be the values guaranteed by the Bidder in the guaranteed technical particulars of his proposal or the acceptance value specified in this Specification, whichever is more stringent for that particular test.

5.2.1 TYPE TESTS

Supplier shall submit All Type Test reports with validity of Five years, along with the Bid. All Type test certificate as per relevant IS/IEC shall be submitted for purchaser review. In case type tests have not been conducted earlier the same has to be carried out without any cost implication to purchaser. Purchaser has the right of witnessing any of the tests for which the supplier has to give prior notice before the date of conducting such tests. The unit rates for each type of the tests to be carried out shall be indicated in the offer. Requirement of type test shall be as listed below. Type test charges shall not be included as part of main price to be indicated in the offer.

The following tests shall be performed on a typical length of conductor. The cost of these tests shall be quoted separately.

- a) Surface condition test
- b) Test for ultimate breaking load on stranded conductor
- c) Stress strain test
- d) Measurement of diameter of individual aluminium and steel wires.
- e) Measurement of lay ratio.
- f) Breaking load of individual wires
- g) Ductility test
- h) Wrapping test
- i) Resistance test and
- j) Galvanizing test

5.2.2 ACCEPTANCE TESTS

All acceptance tests shall be carried out by manufacturer, without any cost implication. List of acceptance tests are as below:

TECHNICAL SPECIFICATIONS OF ACSR CONDUCTORS

- a) Visual and dimensional check by drum
- b) Visual check for joints scratches etc. and lengths of conductor by rewinding
- c) Dimensional check on steel and Aluminium strands
- d) Galvanizing test on steel strands
- e) Torsion and elongation test on steel strands
- f) Check for lay ratio of various layers
- g) Breaking load test on steel and aluminium strands
- h) Wrap test on steel and aluminium strands
- i) DC resistance test on aluminium strands
- j) UTS Test on welded joint of strands
- k) Tensile test (For Aluminium)
- l) Test for thickness of insulation
- m) Tensile strength and elongation at break test for insulation
- n) High voltage test
- o) Insulation resistance (volume resistivity) test

All above tests except (j-o) shall be carried out on aluminium and steel strands after stranding only.

5.2.3 ROUTINE TESTS

- a) Check to ensure that the joints are as per Specification.
- b) Check that there are no cuts, fins etc on the strands.
- c) Check that drums as per Specification.
- d) All acceptance test as mentioned above to be carried out on each coil

5.2.4 TESTS DURING MANUFACTURE

Test during Manufacture on Conductor

- a) Chemical analysis of zinc used for galvanizing
- b) Chemical analysis of aluminium used for making aluminium strands
- c) Chemical analysis of steel used for making steel strands

5.2.5 ADDITIONAL TESTS

The purchaser reserves the right of having at his own expenses any other tests of reasonable nature carried out at Manufacturer's premises, at site, or in any other place in addition to the aforesaid type, acceptance and routine tests to satisfy himself that materials comply with the Specification

5.3 TEST REPORTS

5.3.1 Records of routine tests reports shall be maintained by the Manufacturer at his works for periodic inspection by the purchaser's representative.

5.3.2 Test Certificates of tests during manufacture shall be maintained by the manufacturer. These shall be produced for verification as and when desired by the purchaser.

TECHNICAL SPECIFICATIONS OF ACSR CONDUCTORS**6. PACKING, SHIPPING, HANDLING AND STORAGE**

6.1 Packing shall be sturdy and adequate to protect all assemblies, components and accessories from injury by corrosion, dampness, heavy rains, breakage and vibration encountered during transportation, handling and storage at the plant site. All accessories, which are likely to get damaged during transit if transported mounted on the equipment, shall be removed, adequately packed and shipped separately. All openings shall be sealed. Spare parts shall be packed separately and clearly marked. They shall be specially packed for long storage without injury.

6.2 The bidder shall after proper painting, pack and crate all plant equipment for sea shipment/air freight in a manner suitable for export to a tropical humid and saline air borne climate region as per Internationally accepted export practice in such a manner so as to protect it from damage and deterioration in transit by road, rail and/or sea and during storage at site till the time of erection. The bidder shall be held responsible for all damages due to improper packing.

6.3 The bidder shall give complete shipping information concerning the weight, size, contents of each package including any other information the Purchaser may require. The weight and size of the package shall be such that they can be easily transported from the maker's works to the plant site by ship/air, road ways and railways.

6.4 The bidder shall ascertain at an early date and definitely before the commencement of manufacture, any transport limitations such as weights, dimensions, road culverts, overhead lines, free access etc. from the manufacturing plant to the project site; and furnish to the Purchaser confirmation that the proposed packages can be safely transported, as normal or oversize packages, upto the plant site. Any modifications required in the infrastructure and cost thereof in this connection shall be done and borne by the bidder.

6.5 The bidder shall prepare detailed packing list of all packages and containers, bundles and loose materials forming each and every consignment dispatched to 'site'. The bidder shall further be responsible, for making all necessary arrangements for loading, unloading and other handling right from his works; and from Indian port for equipment under the Off-shore Supply till the 'site' and also till the equipment is erected, tested and commissioned. The bidder shall be solely responsible for proper storage and safe custody of all equipment.

6.6 All packages must be marked consecutively from number one upwards covering all shipments without repeating the same number. Each box, crate, case bundle or each piece of lose material shall be painted with a combination of one white band and one yellow band of a least 4 cm wide each, round the body of the box, crates, etc as the case be for easy identification.

6.7 The conductor shall be supplied in non-returnable, strong, wooden/steel drums provided with lagging of adequate strength, constructed to protect the conductor against all damage and displacement during transit, storage and subsequent handling and stringing operations in the field. The manufacturer shall be responsible for any loss or damage during transportation, handling and storage due to improper packing. The drums shall generally conform to IS/IEC, except as otherwise specified hereinafter.

TECHNICAL SPECIFICATIONS OF ACSR CONDUCTORS

- 6.8 The drums shall be suitable for wheel mounting and for letting off the conductor under minimum controlled tension of the order of 5 KN.
- 6.9 The Bidder should submit their proposed drum drawings along with the bid.
- 6.10 For Conductor, one standard length shall be wound on each drum.
- 6.11 All wooden components shall be manufactured out of seasoned soft wood free from defect that may materially weaken the component parts of the drums. Preservative treatment shall be applied to the entire drum with preservatives of a quality which is not harmful to the Conductor and the earthwire.
- 6.12 The flanges shall be two ply construction with each ply at right angles to the adjacent ply and nailed together. The nails shall be driven from the inside face flange, punched and then clenched on the outer face. There shall be at least 3 nails per plank by ply with maximum nail spacing of 75 mm. Where a slot is cut in the flange to receive the inner end of the conductor the entrance shall be in line with the periphery of the barrel.
- 6.13 The wooden battens used for making the barrel of the segmental type. These shall be nailed to the barrel support. The battens shall be closely butted and shall provide a rot external surface. The edges of the battens shall be rounded damage to the conductor.
- 6.14 Barrel studs shall be used for the construction of drums. The end of the barrel supports slotted to receive them. The barrel over a length on either end, sufficient to accommodate washed nuts for fixing flanges at the required spacing.
- 6.15 Normally, the nuts on the studs shall stand protruded of the used on the inner surface of the flanges and the drum barrel. The ends of barrel shall generally be flushed with the top of the nuts.
- 6.16 The inner check of the flanges and drum barrel surface shall bitumen based paint.
- 6.17 Before, reeling, card board or double corrugated or thick bitumen bamboo paper shall be secured to the drum barrel and inside of by means of a suitable commercial adhesive material. After reeling conductor, the exposed surface of the outer layer of conductor be wrapped with water proof thick bituminized bamboo paper be wrapped with water proof thick bituminized bamboo paper conductor/earth wire from dirt, grit and damage during transport and handling.
- 6.18 A minimum space of 5 mm for conductor shall be provided between the inner surface of the external protective lagging and outer layer of the conductor.
- 6.19 Each batten shall be securely nailed across grains as far as possible to the flange, edges with at least 2 nails per end. The length of the nails shall not be less than twice the thickness of the battens. The nails shall not protrude above the general surface and shall not have exposed sharp, edges or allow the battens to be released due to corrosion.
- 6.20 The nuts on the barrel studs shall be tack welded on the one side in order to fully secure them. On the second end, a spring washer shall be used.

TECHNICAL SPECIFICATIONS OF ACSR CONDUCTORS

6.21 Outside the protective lagging, there shall be minimum of two binder consisting of hoop/iron galvanized steel wire. Each protective lagging shall have two recesses to accommodate the binders.

6.22 The conductor ends shall be properly sealed and secured on the side of one of the flanges to avoid loosening of the conductor layers during transit and handling.

6.23 Each drum shall have the following information stencilled on it in indelible ink along with other essential data:

- i. Contract/Award letter number
- ii. Name and address of consignee
- iii. Manufacturer's name and address
- iv. Drum number.
- v. Size of conductor
- vi. Length of conductor in meters
- vii. Gross weight of drum with conductor
- viii. Weight of drum without lagging
- ix. Weight of empty drum with lagging
- x. Barrel diameter at three locations is an arrow marking at the location of measurement.
- xi. Number of turns in the outer most layer
- xii. Arrow marking for unwinding
- xiii. Position of the conductor ends
- xiv. Distance between outer most layer of Conductor and the inner surface of lagging.

7. EMBOSSING & PRINTING

Following text shall be embossed on Insulated conductor only:

a) BRPL, PO No.<XXXXXXXXXXXX>, Date <XX-XX-XXXX> Manufacturing month & year, Type of conductor – one each meter length

b) Printing of running Meter No. – on each meter length – White Colour

8. APPROVED VENDORS & SUPPLIERS OF RAW MATERIAL

S. No.	Material	Approved Suppliers
1	Steel	TATA / SAIL
2	Aluminium	HINDALCO / BALCO / NALCO
3	Insulation	DOW / KLJ/ KALPENA / BOREALIS / HANWHA

TECHNICAL SPECIFICATIONS OF ACSR CONDUCTORS**APPENDIX - I****LIST OF APPLICABLE CODES AND STANDARDS**

The conductor and earthwire shall conform to the following Indian/International Standards, which mean latest revisions amendments/changes adopted and published, unless otherwise specified here in before, International and internationally recognized standards to which these standard generally corresponding are also listed below:

S. No.	Standard	Title
1	IS: 209-1992	Zinc Ingot - Specification
2	IS 398-1982 Part I, II, III and IV	Specification for Aluminium Conductors for overhead Transmission purposes
3	IS: 1778-1980	Reels and drums for bare conductors
4	IS: 2629-1985	Recommended practice for hot dip galvanizing of iron and steel
5	IS:2633-1992	Method of Testing Uniformity of coating or zinc coated articles
6	IS: 4826-1979	Galvanized coating on round steel wires
7	IS: 6745-1990	Methods of determination of weight of zinc coating of zinc coated iron
8	BS: 433-1969	
9	ISO/R89-1959	
10	BS: 1559-1949	
11	BS: 3436-1986	
12	IEC: 1089	
13	BS: 215-1970	
14	ASTM A472-729	
15	IS:7098 Part –I-1988	XLPE Insulation

TECHNICAL SPECIFICATIONS OF ACSR CONDUCTORS**APPENDIX - II****DRAWINGS SUBMITTAL REQUIREMENT OF THE SUPPLIER**

1. Drawings incorporating the following particulars shall be submitted with the tender for the purposes of preliminary study:-

- i) Detailed dimensional cross-sectional drawing of the conductor.
- ii) Quality assurance plan of manufacturer
- iii) Type test certificates of the conductor
- iv) Standard and Maximum conductor lengths along with drum size and gross weight.

2. After award of the contract the successful bidder shall be required to submit the following within 15 days of the award

- i) Detailed dimensional cross-sectional drawing of the conductor.
- ii) Instruction booklet on installation and testing.
- iii) Routine test reports
- iv) Type test certificates

3. The successful Bidder just after receipt of 'Notice to proceed' shall submit for approval/ finalization a list of drawings/documents with drawing/document numbering indicating category of the drawing, i.e. 'For Approval' or 'For Reference'.

4. The distribution of number of drawings sets, instruction manuals and test reports shall be as follows:-

S. No.	Particulars	Along with the offer	For approval after placement	Final approval	After
1	Drawings	3	4	8	(with reproducible)
2	Instruction manual for Installation commissioning maintenance and Operation	8	8	8	
3	Test Reports	2	2	2+8	(with reproducible)

5. The delivery period shall be reckoned from the date of placement of the order and not from the date of approval of drawings. Thus the delay in the submission of drawings for approval shall result in invoking the provisions of the penalty clause and the no. of days by which the delay has occurred shall be reckoned as delay in delivery. It is the responsibility of the bidder to ensure that drawings are submitted get it approved within one week.

TECHNICAL SPECIFICATIONS OF ACSR CONDUCTORS

ANNEXURE – I

CONDUCTOR DATA SHEET

S. No.	Particulars	Conductor Details						
1	Conductor Name	Zebra	Goat	Panther	Wolf	Dog	Rabbit	Squirrel
2	Stranding and wire diameter	54/3.18 mm Al. + 7/3.18 mm Steel	30/3.71 mm Al. + 7/3.71 mm Steel	30/3.0 mm Al. + 7/3.0 mm Steel	30/2.59 mm Al. + 7/2.59 mm Steel	6/4.72 mm Al. + 7/1.57 mm Steel	6/3.35 mm Al. + 1/3.35 mm Steel	6/2.11 mm Al +1/2.11 mm Steel
3	Number of strands							
3a	Core	1	1	1	1	1	1	1
3b	1 st layer	6	6	6	6	6	6	6
3c	2 nd Layer	12	12	12	12	6	--	--
3d	3 rd layer	18	18	18	18	--	--	--
3e	4 th Layer	24	--	--	--	--	--	--
4	Sectional Area of Aluminum	428.9 Sq. mm	324.30 Sq. mm	212.10 Sq. mm	158.10 Sq. mm	105.00 Sq. mm	52.88 Sq. mm	20.98 Sq. mm
5	Total Sectional Area	484.5 Sq. mm.	400.00 Sq. mm	261.50 Sq. mm	194.90 Sq. mm	118.50 Sq. mm	61.70 Sq. mm	24.48 Sq. mm
6	Overall Diameter	28.62 mm	25.97 mm	21.00 mm	18.13 mm	14.15 mm	10.05 mm	6.33 mm
7	Approx. Weight							
7a	Aluminum	1186 kg/Km	878 kg/Km	587 kg/Km	428 kg/Km	287 kg/Km	145 kg/Km	58 kg/Km
7b	Steel	435 kg/Km	610 kg/Km	387 kg/Km	298 kg/Km	107 kg/Km	69 kg/Km	27 kg/Km
7c	Total	1621 kg/Km	1488 kg/Km	974 kg/Km	726 kg/Km	394 kg/Km	214 kg/Km	85 kg/Km
8	Calculated DC resistance at 20 deg.C	0.06868 Ohm/Km	0.09106 Ohm/Km	0.13900 Ohm/Km	0.18710 Ohm/Km	0.27920 Ohm/Km	0.55240 Ohm/Km	1.39400 Ohm/Km
9	Minimum UTS	130.32 KN	137.00 KN	89.67 KN	67.34 KN	32.41 KN	18.25 KN	7.61 KN

TECHNICAL SPECIFICATIONS OF ACSR CONDUCTORS

LAY RATIO OF ALUMINIUM CONDUCTORS, STEEL REINFORCED

S. No.	No. of wire		Ratio of Aluminium Wire Diameter to Steel wire Diameter	Lay ratio to Steel core (6 wire ratio)		Lay ratio for Aluminium wire					
	Aluminium	Steel		Min	Max	Outermost Layer		Layer immediately beneath Outermost Layer		Innermost Layer of conductors with 3 Aluminium wire Layers	
						Min	Max	Min	Max	Min	Max
1	6	1	1.0	-	-	10	14	-	-	-	-
2	6	7	3.0	13	28	10	14	-	-	-	-
3	30	7	1.0	13	28	10	14	10	16	-	-
4	42	7	1.8	13	28	10	14	10	16	10	17
5	54	7	1.0	13	28	10	14	10	16	10	17

DIAMETER OF ALUMINIUM AND STEEL STRANDS

S. No.	Conductor Name	Aluminium			Steel		
		Nominal (mm)	Maximum (mm)	Minimum (mm)	Nominal (mm)	Maximum (mm)	Minimum (mm)
1	Zebra	3.18	3.21	3.15	3.18	3.24	3.12
2	Goat	3.71	3.74	3.68	3.71	3.76	3.65
3	Panther	3.00	3.03	2.97	3.00	3.06	2.94
4	Wolf	2.59	2.62	2.56	2.59	2.64	2.54
5	Dog	4.72	4.77	4.67	1.57	1.60	1.54
6	Rabbit	3.35	3.38	3.32	3.35	3.42	3.28
7	Squirrel	2.11	2.13	2.09	2.11	2.15	2.07

TECHNICAL SPECIFICATIONS OF ACSR CONDUCTORS**ANNEXURE - II****CLIMATIC CONDITIONS**

The equipment covered under this specification is for outdoor installation and the climatic conditions that are prevailing at the sites in Delhi.

- a) Temperature: The reference ambient temperature be taken
- | | |
|--|----------|
| i) Maximum ambient air temp | 50 deg C |
| ii) Maximum daily average ambient temp | 40 deg C |
- b) Relative Humidity
- | | |
|-------------|-------|
| i) Maximum | 100 % |
| ii) Minimum | 10 % |
- c) Average annual rainfall
- | | |
|--|--------|
| | 750 mm |
|--|--------|
- d) Average No. of Rainy Days per annum
- | | |
|--|----|
| | 50 |
|--|----|
- e) Average no. of the thunder storm days per annum
- | | |
|--|----|
| | 40 |
|--|----|
- f) Altitude, Not exceeding
- | | |
|--|-------------|
| | 300 meters. |
|--|-------------|
- g) Rainy Months
- | | |
|--|-----------------|
| | June to October |
|--|-----------------|
- h) Wind pressure
- | | |
|--|---|
| | 195 Kg/m ² up to 30meters elevation as per IS 875- 1975. |
|--|---|
- i) The atmosphere is heavily polluted laden with mild acid and dust in suspension during the dry months and is subjected to fog in cold months. Heavy lightning occurs in the area during rainy months.

TECHNICAL SPECIFICATIONS OF ACSR CONDUCTORS

ANNEXURE - III

VENDOR DATA (GURANTEED TECHNICAL PARTICULARS)

(SEPARATE DATA SHEET SHALL BE SUBMITTED FOR EACH TYPE OF CONDUCTOR)

S.NO.	DESCRIPTION	BRPL/BYPL Requirement	PARTICULARS
1	Name of the material offered	XLPE Insulated ACSR Conductor	
2	Maker's Name	Required	
3	Address and Phone No.		
4	Reference Standards	IS-398Pt-1, IS 17778-80Pt-3, IS-7098	
5	No.of strands/diameter of Galvanised steel wire/Al strand	Required	
6	Approx.Diameter over covered conductor		
7	Minimum Ultimate Tensile Strength of Conductor	18.25	
8	Direction Of Lay	Successive layers shall have opposite directions of lay outermost layer being Right Handed	
9	Lay ratio of Aluminium wire		
10	Continuous max.current rating of ACSR Conductor in still air at an ambient temperature at 45 Deg C	Required	
11	Temperature rise for the above current	Required	
12	Short Circuit current rating of ACSR Conductor for 1sec	Required	
13	Module of elasticity of complete Conductor	79	
14	Coefficient of linear expansion of complete conductor	19.1x10 ⁶	
15	Cross sectional area	Required	
16	Nominal aluminium area	Required	
16.1	Conductivity and Grade of Al	61% EC Grade	
16.2	% Composition of steel wire	As Per spec	
17	Chemical composition certificate from NABL approved lab	Required	
18	Minimum breaking load		
18.1	Aluminium strand (After Stranding)	Required	
18.2	Galvanised steel wire (After Stranding)	Required	

TECHNICAL SPECIFICATIONS OF ACSR CONDUCTORS

19	Total Conductor	Required	
20	Max.Working tension of conductor	75% of UTS	
21	Resistance of Al conductor at 20Deg C (Max)	Required	
22	Weight		
22.1	Aluminium strand	Required	
22.2	Steel Strand	Required	
22.3	Conductor without insulation	Required	
22.4	Conductor with insulation	Required	
23	Purity of Aluminium rod in %age	Required	
24	Zinc coating on steel wire		
24.1	Grade of Zinc	Electrolytic High Grade Zinc not less Than 99.95% purity as per IS209-1992	
24.2	Min weight of Zinc Coating	Required	
24.3	No.& duration of dips of Zinc coating (Before Stranding)	Required	
25	Type of Insulation	XLPE Type as per IS 7098	
25.1	Nominal thickness of XLPE insulation	1.6	
25.2	Min thickness of XLPE insulation	1.5	
25.3	Colour of XLPE insulation	Black	
25.4	Tensile strength of Insulation (Min)	12.5	
25.5	Percentage elongation at break of Insulation(Min)	200	
25.6	Insulation resistance test (Volume resistivity) Min	1x10 ¹⁴ at 27deg C 1x10 ¹² at 90deg C	
26	Chemical composition test certificate of XLPE insulation material	Required, shall be weather proof and have property of protection against ultraviolet light having 2.5% black carbon content	
27	Drum	Required	
27.1	Ref IS	IS-1778-1980	
27.2	Gross weight of drum including weight of Conductor	Required	
27.3	Standard length of each piece of Conductor	3Km	
27.4	Non-standard length	length	
28	Order quantity tolerance	(+/-)2%	Yes/No
29	Embossing	Manufacturing month& year, Type of conductor, BRPL, PO. No.-----, date XX-XX-XXXX,	

ANNEXURE -I

PRICE FORMAT

ITEM DESCRIPTION	QTY	UoM	EX- WORKS RATE PER KM	UNIT FREIGHT	GST	UNIT LANDED	TOTAL LANDED COST
Supply of XLPE Insulated Dog conductor	96	KM					
Supply of XLPE Insulated Rabbit conductor	9	KM					
Supply of XLPE Insulated Squirrel conductor	12	KM					
CNDCTR,ACSR ZEBRA UNINSUL	0.5	KM					



ANNEXURE -II

BID FORM

To

Head of Department
Contracts & Material
Deptt. BSES Rajdhani
Power Ltd 1st Floor, C
Block
BSES Bhawan, Nehru
Place New Delhi
110019

Sir,

- 1 We understand that BRPL is desirous of procuring of in its licensed distribution network area in Delhi
2 Having examined the Bidding Documents for the above named works, we the undersigned, offer to deliver the goods in full conformity with the Terms and Conditions and technical specifications as may be determined in accordance with the terms and conditions of the contract.
3 If our Bid is accepted, we undertake to deliver the entire goods as) as per delivery schedule mentioned in Section IV from the date of award of purchase order/letter of intent.
4 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 Terms and Conditions.
5 We agree to abide by this Bid for a period of 120 days from the due date of bid submission and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
6 We declare that we have studied the provision of Indian Laws for supply of equipments /materials and the prices have been quoted accordingly.
7 Unless and until Letter of Intent is issued, this Bid, together with your written acceptance thereof, shall constitute a binding contract between us.
8 We understand that you are not bound to accept the lowest, or any bid you may receive.
9 There is provision for Resolution of Disputes under this Contract, in accordance with the Laws and Jurisdiction of Contract.

Dated this..... day of2022

Signature..... In the capacity of

.....duly authorized to sign for and on behalf of

(IN BLOCK CAPITALS).....

ANNEXURE -III**ACCEPTANCE FORM FOR PARTICIPATION IN REVERSE AUCTION EVENT**

(To be signed & stamped by the bidder along-
with bid)

BSES Rajdhani Power Ltd (BRPL) intends to use reverse auction through SAP-SRM tool as an integral part of entire tendering process. All bidders who are techno-commercially qualified on the basis of tender requirements shall participate in the reverse auction.

The following terms and conditions are deemed as accepted by the bidder on participation in the bid: -

1. In case of bidding through Internet medium, bidders are advised to ensure availability of all associated infrastructure as required to participate in the reverse auction event. Inability to bid due to telephone glitch, internet response issues, software & hardware hangs/failures, power failures or any other reason shall not be the responsibility of BRPL.
2. In case bidder fails to participate in the reverse auction event due to any reason whatsoever, it shall be presumed that the bidder has no further discounts to offer and the initial bid submitted by them as a part of tender shall be considered as bidder's Final No Regret offer. Any off-line price bids received from a bidder in lieu of non-participation in the reverse auction event shall be rejected by BRPL.
3. The bidder is advised to understand the auto bid process to safeguard themselves against any possibility of non-participation in the reverse auction event.
4. The bidder shall be prepared with competitive price quotes during the day of reverse auction event.
5. The prices quoted by bidder in reverse auction event shall be on FOR Landed cost BRPL Store/site basis inclusive of all relevant taxes, duties, levies, transportation charges etc.
6. The prices submitted by the bidder during reverse auction event shall be binding on the bidder.
7. The bidder agrees to non-disclosure of trade information regarding bid details e.g. purchase, identity, bid process/technology, bid documentation etc.
8. BRPL will make every effort to make the bid process transparent. However award decision of BRPL will be final and binding on the bidder.
9. The prices submitted during reverse auction event shall be binding on the bidder.
10. No request for Time extension of the reverse auction event shall be considered by BRPL.

ANNEXURE -IVFORMAT 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*] (herein after called the "Bidder") has submitted its bid dated [*date of submission of bid*] for the supply of [*name and/or description of the goods*] (here after 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 it's Corporate Office at BSES Bhawan Nehru Place, New Delhi -110019, (herein after called —the "Purchaser") in the sum of (Rupees only) 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 _____ 2022

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

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

- (a) fails or refuses to execute the Contract Form ,if required; or
- (b) fails or refuses to furnish the performance security, In accordance with the Instructions to Bidders/ Terms and 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 condition(s), specifying the occurred condition or condition(s).

This guarantee will remain in force up to and including ONE TWENTY DAYS(120) days after the due date of submission bid, and any demand in respect thereof should reach the Bank not later than the above date.

(Stamp & signature of the bank)

Signature of the witness(s)

ANNEXURE -VCOMMERCIAL TERMS AND CONDITIONS

SI N	Item Description	AS PER BRSPL	BIDDER'S CONFIRMATIO
1	Validity	120 days from the date of offer.	
2	Price basis	a) Firm , FOR Delhi store basis. Prices shall be inclusive of all taxes & duties, freight up to Delhi stores. b) Unloading at stores shall be in vendor's scope	
3	Payment terms	100% payment within 45 days after receipt of material at stores	
4	Delivery schedule	As per SECTION – IV	
5	Defect Liability period	60 months after commissioning or 66 months from the last date of dispatch, 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 valid for 24 months after commissioning or 30 months from the last date of dispatch, whichever is earlier plus 3 months towards claim period	

Bidder should also furnish the below details for future communication:-

FOR TECHNICAL QUERY:		
CONTACT PERSON & DESIGNATION	NAME	DESIGNATION
E-MAIL	MOBILE NO	TELEPHONE NO

FOR COMMERCIAL QUERY:		
CONTACT PERSON & DESIGNATION	NAME	DESIGNATION
E-MAIL	MOBILE NO	TELEPHONE NO



ANNEXURE VI

NO DEVIATION SHEET

SL NO	SL NO OF TECHNICAL SPECIFICATION	DEVIATIONS,IF ANY

SIGNATURE & SEAL OF BIDDER

NAME OF BIDDER



ANNEXURE-VII

S.No	PO No	PO Date	Qty	Supplied		Customer
				Qty.	Date	

SIGNATURE & SEAL OF BIDDER

NAME OF BIDDER



CHECK LIST

SI No	Item Description	YES/NO
1	INDEX	YES/NO
2	COVERING LETTER	YES/NO
3	BID FORM (UNPRICED) DULY SIGNED (1 nos. Original +1 nos. Photo Copy)	
4	BILL OF MATERIAL (UNPRICED) (1 nos. Original +1 nos. Photo Copy)	YES/NO
5	TECHNICAL BID (1 nos. Original +1 nos. Photo Copy)	YES/NO
6	ACCEPTANCE TO COMMERCIAL TERMS AND CONDITIONS	YES/NO
7	FINANCIAL BID (IN SEALED ENVELOPE – 1 ORIGINAL)	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	
11	ACCEPTANCE FORM FOR REVERSE AUCTION	YES/NO
12	PLANT MANUFACTURING CAPACITY (CA CERTIFIED)	YES/NO
13	ANNUAL TURNOVER (CA CERTIFIED)	YES/NO
14	PERFORMANCE CERTIFICATE AS PER QR	YES/NO
15	SUPPLIED QUANTITY AS PER PQR	YES/NO
16	ISO Certification /Any other certification/Type test Report/BIS etc as per PQR	YES/NO
17	Quality Assurance /Organization Chart	YES/NO
18	Undertakings as per NIT	YES/NO
19	Technical Deviation	YES/NO
20	SUPPLIED/PERFORMANCE QTY AS PER QR(IN ANNEXURE-VII) CA CERTIFIED	YES/NO
Note : The above document must be properly tagged with page nos.		