

Volume – I

Tender Notification for

SUPPLY OF VARIOUS RATINGS OF CURRENT TRANSFORMERS IN BRPL

CMC/BR/22-23/RB/PR/RJ/1044

Due Date for Submission of Bids: 17.08.2022

BSES RAJDHANI POWER LTD (BRPL)

BSES Bhawan, Nehru Place, New Delhi-110019 Corporate Identification Number: U74899DL2001PLC111527 Telephone Number: +91 11 3009 9999

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Section – I REQUEST FOR QUOTATION

Tender Notification: CMC/BR/22-23/RB/PR/RJ/1044

Procurement of Various Ratings of CTs in BRPL



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SECTION – I: REQUEST FOR QUOTATION

1.0 Event Information

NIT No.: CMC/BR/22-23/RB/PR/RJ/1044

1.01 BRPL invites sealed tenders for supply of Lithium Ion Battery from the manufacturers. The bidder must qualify the technical requirements as specified in clause 2.0 stated below. The sealed envelopes shall be duly super scribed as — "BID FOR SUPPLY OF VARIOUS RATINGS OF CURRENT TRANSFORMER IN BRPL, TENDER NOTICE CMC/BR/22-23/RB/PR/RJ/1044 DUE FOR SUBMISSION ON DT. 17.08.2022".

Sl. No.	Item Description	Specification	Requirement Total Qty.	- Estimated Cost		
	BRPL, DELHI					
1	Supply of Various ratings of CT	SECTION V	149 Nos	1.50 Crs		

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

1.02 The schedule of specifications with detail terms & conditions can be obtained from address given below against demand draft/Pay Order of Rs.1180/- with GST-, drawn in favour of BSES RAJDHANI POWER LTD, payable at New Delhi. The sale of tender documents will be issued from 28.07.2022 onwards on all working days upto 17.08.2022. The tender documents can also be downloaded from the website "www.bsesdelhi.com".

In case tender papers are downloaded from the above website, then the bidder has to enclose a demand draft covering the cost of bid documents as stated above in a separate envelope with suitable superscription —"Cost of Bid Documents: Tender Notice Ref: CMC/BR/22-23/RB/PR/RJ/1044". This envelope should accompany the Bid Documents.

1.03 Offers will be received upto 1530 Hrs. on dt. 17.08.2022 as indicated earlier and will be opened at the address given below dt. 17.08.2022 at 1600 Hrs. in the presence of authorized representatives of the bidders. The schedule of specifications with detail terms & conditions are enclosed. It is the sole responsibility of the bidder to ensure that the bid documents reach this office on or before the due date.

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



- 1.04 BRPL reserves the right to accept/ reject any or all Tenders without assigning any reason thereof and alter the quantity of materials mentioned in the Tender documents at the time of placing purchase orders. Tender will be summarily rejected if:
 - i) Earnest Money Deposit (EMD) @ 2% (Two percent) of the Tender value i.e. **Rs. 3,00,000**/- is not deposited in shape of Bank Draft in favour of BSES RAJDHANI POWER LTD, payable at New Delhi or Bank Guarantee executed on favour of BSES RAJDHANI POWER LTD.
 - ii) The offer does not contain "FOR, NEW DELHI price indicating break-up towards all taxes & duties".
 - iii) Complete Technical details are not enclosed.
 - iv) Tender is received after due time due to any reason.
- 1.05 BRPL reserves the right to reject any or all bids or cancel/ withdraw the invitation for bids without assigning any reason whatsoever and in such case no bidder/ intending bidder shall have any claim arising out of such action time of placing purchase orders.

2.0 Qualification Criteria:-

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

- 1) The bidder should have own manufacturing/Assembly facility in India for 33 kV CT or higher voltage class CT for last 3 years.- Factory incorporation certificate / Undertaking. Details of manufacturing units, locations and works from where supply against this tender shall be proposed to be furnished.
- 2) The bidder should have servicing, repairing, testing & refurbishment facility in INDIA with necessary spares and testing equipment for providing prompt after sales service for CT- Relevant Details/certificates/Undertaking (Details of the set-up available shall be brought out in the offer. The bidder shall also submit undertaking along with the bid confirming the infrastructure details submitted)
- 3) The bidder should have manufacturing capacity for a minimum of 20 nos 33 kV CT or higher voltage class per month- *Installed Capacity Certificate*
- 4) The bidder should have successfully designed, supplied a minimum 100 Nos of 33 kV CT or higher grade CT to any utilities/SEB's/PSU's/reputed firm (for which end user shall be Utility/SEB's/PSU's for developing distribution Network) in last 5 years.- *a. Work Order copies*
 - b. Work completion certificates



- c. List of projects executed including customer name, PO number (with date), date of completion and rating (Capacity/Voltage etc)
- 5) Performance certificate for minimum 2 year satisfactory performance for similar rating or higher rating supplied in last 5 years from at least two utilities/ SEB/ PSUs / reputed firm wherein the end user shall be Utility/SEB's/PSU's. In case of bidder has a previous association with BRPL/BYPL for similar product and service, the performance feedback for that bidder by BRPL/BYPL shall only be considered irrespective of performance certificate issued by any third organization.- *Performance certificate*
- 6) The bidder must possess valid ISO 9001:2015 certification- Valid copy of Certification
- 7) Bidder should have Average Annual Sales Turnover of Rs 5 Crores or more in last three (3) Financial Years *Balance Sheet and Duly certified CA certificate to be submitted*.
- 8) The Bidder shall submit an undertaking that "No Litigation" is pending with the BRPL or its Group/Associates Companies.- *Undertaking to be submit*
- 9) An undertaking (self-certificate) that the bidder has not been blacklisted/debarred by any central/state government institution/Electricity utilities- *Undertaking to be submit*
- 10) The bidder must have valid PAN No., GST Registration Number, in addition to other statutory compliances. The bidder must submit the copy of registrations and submit an undertaking that the bidder shall comply all the statuary compliances as per the laws/rules etc. before the start of the supply/work.- *Relevant Statutory Documents Copy/Undertaking*

3.0 Bidding and Award Process

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

a. Time schedule of the bidding process

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

S.No.	Steps	Activity description	Due date
1	Technical Queries	All Queries related to RFQ	On or before 10.08.2022
			1500 Hrs.



2	Technical Offer	Documentary evidence in support of qualifying criteria. Technical Literature/ GTP/ Drawings/ Type test report, if any, etc., Testing facilities, any other relevant document, acceptance to commercial terms & conditions viz. delivery Schedule/ Period, Payment terms, PBG etc. Quality assurance plan, Deviation from the specification, list of plant & machinery and testing equipments Unpriced items.	17.08.2022, 1530 Hrs
3	Commercial Offer	Prices for Current Transformer and Break up regarding basic price and taxes. Delivery commitment	17.08.2022, 1530 Hrs
4	Opening of technical bid	As per RFQ	17.08.2022, 1600 Hrs

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

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

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

4.0 Award Decision

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

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



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

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

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

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

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

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

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

5.0 Market Integrity:

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

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

6.0 Supplier Confidentiality

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

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



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

7.0 Contact Information

NIT No.: CMC/BR/22-23/RB/PR/RJ/1044

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

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



SECTION – II INSTRUCTION TO BIDDERS (ITB) VARIOUS RATINGS OF CURRENT TRANSFORMERS

CMC/BR/22-23/RB/PR/RJ/1044



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 various ratings of Current Transformer as notified earlier in this bid document.

2.00 SCOPE OF WORK

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

3.00 DISCLAIMER

- 3.01 This Document includes statements, which reflect various assumptions, which may or may not be correct. Each Bidder/ Bidding Consortium should conduct its own estimation and analysis and should check the accuracy, reliability and completeness of the information in this Document and obtain independent advice from appropriate sources in their own interest.
- 3.02 Neither Purchaser nor its employees will have any liability whatsoever to any Bidder or any other person under the law or contract, the principles of restitution or unjust enrichment or otherwise for any loss, expense or damage whatsoever which may arise from or be incurred or suffered in connection with anything contained in this Document, any matter deemed to form part of this Document, provision of Services and any other information supplied by or on behalf of Purchaser or its employees, or otherwise a rising in any way from the selection process for the Supply.
- 3.03 Though adequate care has been taken while issuing the Bid document, the Bidder should satisfy itself that Documents are complete in all respects. Intimation of any discrepancy shall be given to this office immediately.
- 3.04 This Document and the information contained herein are Strictly Confidential and are for the use of only the person(s) to whom it is issued. It may not be copied or distributed by the recipient to third parties (other than in confidence to the recipient's professional advisors).

4.00 COST OF BIDDING

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

B BIDDING DOCUMENT

5.00 BIDDING DOCUMENTS

NIT No.: CMC/BR/22-23/RB/PR/RJ/1044

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



Volume –I

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

Volume – II

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

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

6.00 AMENDMENT OF BIDDING DOCUMENTS

- 6.01 At any time prior to the deadline for submission of Bids, the Purchaser may for any reasons, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the Bidding Documents by Amendment.
- 6.02 The Amendment shall be part of the Bidding Documents, pursuant to Clause 5.01, and it will be notified in writing by Fax/e-mail to all the Bidders who have received the Bidding Documents and confirmed their participation to Bid, and will be binding on them.
- 6.03 In order to afford prospective Bidders reasonable time in which to take the Amendment into account in preparing their Bids, the Purchaser may, at its discretion, extend the deadline for the submission of Bids.

C PREPARATION OF BIDS

7.00 LANGUAGE OF BID

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

8.00 DOCUMENTS COMPRISING THE BID

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



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

9.00 BID FORM

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

9.02 **EMD**

Pursuant to Clause 8.0(b) above, the bidder shall furnish, as part of its bid, a EMD amounting to 2% of the total bid value (FOR Destination) i.e. Rs. **3,00,000**/-. The EMD is required to protect the Purchaser against the risk of Bidder's conduct which would warrant the security's forfeiture.

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

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

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

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

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

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ii) to furnish the required performance security.

10.00 BID PRICES



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

11.00 BID CURRENCIES

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

12.00 PERIOD OF VALIDITY OF BIDS

- 12.01 Bids shall remain valid for **120 days** post bid date.
- 12.02 Notwithstanding 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 by Fax/e-mail.

13.00 ALTERNATIVE BIDS

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

14.00 FORMAT AND SIGNING OF BID

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



15.0 SEALING AND MARKING OF BIDS

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

16.0 DEADLINE FOR SUBMISSION OF BIDS

- 16.01 The original Bid, together with the required copies, must be received by the Purchaser at the address specified not later than **1530 HRS on 17.08.2022**.
- 16.02 The Purchaser may, at its discretion, extend the deadline for the submission of Bids by amending the Bidding Documents in accordance with Clause9.0, in which case all rights and obligations of the Purchaser and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

17.0 ONE BID PER BIDDER

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

18.00 LATE BIDS

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

19.00 MODIFICATIONS AND WITHDRAWAL OF BIDS

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

E. EVALUATION OF BID

20.00 PROCESS TO BE CONFIDENTIAL



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

21.00 CLARIFICATION OF BIDS

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

22.00 PRELIMINARY EXAMINATION OF BIDS / RESPONSIVENESS

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

23.0 EVALUATION AND COMPARISON OF BIDS

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



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

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

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

F. AWARD OF CONTRACT

24.0 CONTACTING THE PURCHASER

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

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

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

26.0 AWARD OF CONTRACT

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

27.0 THE PURCHASER'S RIGHT TO VARY QUANTITIES

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



28.0 LETTER OF INTENT/ NOTIFICATION OF AWARD

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

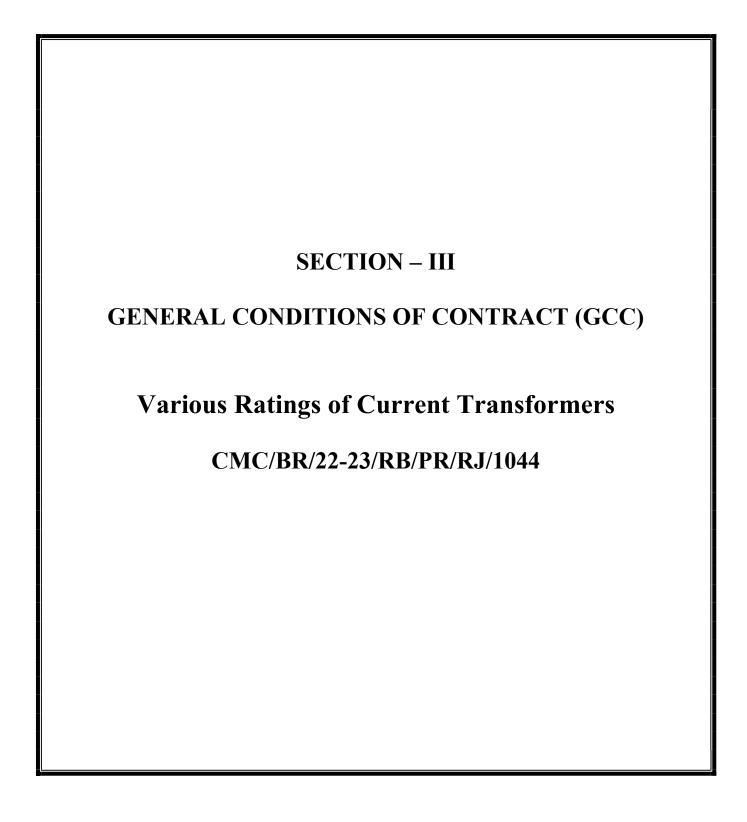
29.0 PERFORMANCE BANK GUARANTEE

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

30.00 CORRUPT OR FRADULENT PRACTICES

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







1.0 General Instructions

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

2.0 Definition of Terms

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



- 2.06 "Month" shall mean the calendar month and "Day" shall mean the calendar day.
- 2.07 "Codes and Standards" shall mean all the applicable codes and standards as indicated in the Specification.
- 2.08 "Offer Sheet" shall mean Bidder's firm offer submitted to BRPL in accordance with the specification.
- 2.09 "Contract" shall mean the "Letter of Acceptance" issued by the Purchaser.
- 2.10 "Contract Price" shall mean the price referred to in the "Letter of Acceptance".
- 2.11 "Contract Period" shall mean the period during which the "Contract" shall be executed as agreed between the Supplier and the Purchaser in the Contract inclusive of extended contract period for reason beyond the control of the Supplier and/or Purchaser due to force majeure.
- 2.12 "Acceptance" shall mean and deemed to include one or more of the following as will be stipulated in the specification:
- a) The written acceptance of material by the inspector at suppliers works to ship the materials.
- b) Acceptance of material at Purchaser site stores after its receipt and due inspection/ testing and release of material acceptance voucher.
- c) Where the scope of the contract includes supply, acceptance shall mean issue of necessary equipment / material takeover receipt after installation & commissioning and final acceptance.

3.0 Contract Documents & Priority

- 3.01 Contract Documents: The terms and conditions of the contract shall consist solely of these RFQ conditions and the offer sheet.
- 3.02 Priority: Should there be any discrepancy between any term hereof and any term of the Offer Sheet, the terms of these RFQ shall prevail.

4.0 Scope of Supply - General

- 4.01 The "Scope of Supply" shall be on the basis of Bidder's responsibility, completely covering the obligations, responsibility and supplies provided in this Bid enquiry whether implicit or explicit.
- 4.02 Bidder shall have to quote for the Bill of quantities as listed in Section IV of this RFQ.
- 4.03 Quantity variation and additional requirement if any shall be communicated to successful bidder during project execution.
- 4.04 All relevant drawings, data and instruction manuals.



5.0 Quality Assurance and Inspection

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

6.0 Packing, Packing List & Marking

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



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

7.01 Prices basis for supply of materials

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

8.0 Variation in taxes, duties & levies:

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

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

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

10.0 Terms of payment and billing

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



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

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

11.0 Price Validity

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

12.0 Performance Guarantee

- 12.01 Supplier shall establish a performance bond in favor of BRPL in an amount not less than Ten percent (10%) of the total price of the Contract (the "Performance Bond"). The Performance Bond shall be valid for a period of twenty four months (24) from the date of the commissioning or thirty months (30) from the date of receipt of material (last consignment) at site/stores whichever is earlier plus 3 months towards claim period. It shall be in accordance with one of the following terms:
- a) Depositing pay order /demand draft of the relevant amount directly with BRPL at the address listed above or as otherwise specified by BRPL, either of which shall constitute the Performance Bond hereunder; or
- b) Bank guarantee from any nationalized bank in favour of BSES RAJDHANI POWER LTD (BRPL). The performance Bank guarantee shall be in the format as specified by BRPL.

13.0 Forfeiture

NIT No.: CMC/BR/22-23/RB/PR/RJ/1044

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



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

14.0 Release

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

15.0 Defects Liability Period

15.01 The bidder to Guarantee the materials / items supplied against any defect of failure, which arise due to faulty materials, workmanship or design for the entire defects liability period. The Defect liability period shall be 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.

16.0 Return, Replacement or Substitution.

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

17.0 Effective Date of Commencement of Contract:

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

18.0 Time – The Essence of Contract

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

19.0 The Laws and Jurisdiction of Contract:

NIT No.: CMC/BR/22-23/RB/PR/RJ/1044

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



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

20.0 Events of Default

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

21.0 Consequences of Default.

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

22.0 Penalty for Delay

- 22.01 If supply of items / equipments is delayed beyond the supply schedule as stipulated in purchase order then the Supplier shall be liable to pay to the Purchaser as penalty for delay, a sum of 1% (one percent) of the contract price for every week delay or part thereof for undelivered quantities.
- 22.02 The total amount of penalty for delay under the contract will be subject to a maximum of ten percent (10%) of the contract price for undelivered quantities.



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

23.0 Force Majeure

23.01 General

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

- i) Such event or circumstance materially and adversely affects the ability of the affected Party to perform its obligations under this Contract, and the affected Party has taken all reasonable precautions, due care and reasonable alternative measures in order to prevent or avoid the effect of such event on the affected party's ability to perform its obligations under this Contract and to mitigate the consequences thereof.
- ii) For the avoidance of doubt, if such event or circumstance would not have materially and adversely affected the performance of the affected party had such affected party followed good industry practice, such event or circumstance shall not constitute force majeure.
- iii) Such vent is not the direct or indirect result of the failure of such Party to perform any of its obligations under this Contract.
- iv) Such Party has given the other Party prompt notice describing such events, the effect thereof and the actions being taken in order to comply with above clause.
- 23.02 Specific Events of Force Majeure subject to the provisions of above clause, Events of Force Majeure shall include only the following to the extent that they or their consequences satisfy the above requirements:
- 23.03 Mitigation of Events of Force Majeure Each Party shall:
- i) Make all reasonable efforts to prevent and reduce to a minimum and mitigate the effect of any delay occasioned by an Event of Force Majeure including recourse to alternate methods of satisfying its obligations under the Contract;
- ii) Use its best efforts to ensure resumption of normal performance after the termination of any Event of Force Majeure and shall perform its obligations to the maximum extent practicable as agreed between the Parties; and
- iii) Keep the other Party informed at regular intervals of the circumstances concerning the event of Force Majeure, with best estimates as to its likely continuation and what measures or contingency planning it is taking to mitigate and or terminate the Event of Force Majeure.
- 23.04 Burden of Proof In the event that the Parties are unable in good faith to agree that a Force Majeure event has occurred to an affected party, the parties shall resolve their dispute in accordance with the provisions of this Agreement. The burden of proof as to whether or not a force majeure event has occurred shall be upon the party claiming that the force majeure event has occurred and that it is the affected party.



- 23.05 Termination for Certain Events of Force Majeure. If any obligation of any Party under the Contract is or is reasonably expected to be delayed or prevented by a Force Majeure event for a continuous period of more than 3 months, the Parties shall promptly discuss in good faith how to proceed with a view to reaching a solution on mutually agreed basis. If a solution on mutually agreed basis cannot be arrived at within a period of 30 days after the expiry of the period of three months, the Contract shall be terminated after the said period of 30 days and neither Party shall be liable to the other for any consequences arising on account of such termination.
- 23.06 Limitation of Force Majeure event. The Supplier shall not be relieved of any obligation under the Contract solely because cost of performance is increased, whether as a consequence of adverse economic consequences or otherwise.
- 23.07 Extension of Contract Period due to Force Majeure event The Contract period may be extended by mutual agreement of Parties by way of an adjustment on account of any period during which an obligation of either Party is suspended due to a Force Majeure event.
- 23.08 Effect of Events of Force Majeure. Except as otherwise provided herein or may further be agreed between the Parties, either Party shall be excused from performance and neither Party shall be construed to be in default in respect of any obligations hereunder, for so long as failure to perform such obligations shall be due to and event of Force Majeure."

24.0 Transfer And Sub-Letting

24.01 The Supplier shall not sublet, transfer, assign or otherwise part with the Contract or any part thereof, either directly or indirectly, without prior written permission of the Purchaser.

25.0 Recoveries

25.01 Whenever under this contract any money is recoverable from and payable by the bidder, the purchaser shall be entitled to recover such sum by appropriating in part or in whole by detecting any sum due to which any time thereafter may become due from the supplier in this or any other contract. Should the sum be not sufficient to cover the full amount recoverable the bidder shall pay to the purchaser on demand the remaining balance.

26.0 Waiver

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

27.0 Indemnification

NIT No.: CMC/BR/22-23/RB/PR/RJ/1044

27.01 Notwithstanding contrary to anything contained in this RFQ, Supplier shall at his costs and risks make good any loss or damage to the property of the Purchaser and/or the other Supplier engaged by the Purchaser and/or the employees of the Purchaser and/or employees of the other Supplier engaged by the Purchaser whatsoever arising out of the negligence of the Supplier while performing the obligations under this contract.



SECTION – IV: QUANTITY AND DELIVERY REQUIREMENT

Sl.	Item Description	Specification	Requirement	Delivery	
No.				Schedule	Location
	В				
1	Various Ratings of Current	SECTION V	149 Nos	As per BRPL	Stores
	Transformer	requirement	BRPL		
	TOTA		Delhi		



BID FORM

Supply of Various Ratings of Current Transformer

To

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

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

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

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

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

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

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

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

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

Dated this	day of	20
	, and a second s	pacity of
-		half of (IN BLOCK CAPITALS)



FORMAT FOR EMD BANK GUARANTEE

NIT No.: CMC/BR/22-23/RB/PR/RJ/1044

(To be issued in a Non Judicial Stamp Paper of Rs. 50/-purchased in the name of the bank) Whereas [name of the Bidder] (hereinafter called the "Bidder") has submitted its bid dated [date of submission of bid] for the supply of [name and/or description of the goods] (hereafter called "the Bid"). KNOW ALL PEOPLE by these presents that WE [name of bank]at[Branch Name and address], having our registered office at address of the registered office of the bank (herein after called —"the Bank"), are bound unto BSES Rajdhani Power Ltd., with its Corporate Office at BSES Bhawan Nehru Place, New Delhi -110019, (herein after called —the "Purchaser") in the sum for which payment well and truly to be made to the said Purchaser, the Bank binds itself, its successors, and assigns by these presents. Sealed with the Common Seal of the said Bank this day of 20. THE CONDITIONS of this obligation are: If the Bidder withdraws its Bid during the period of bid validity specified by the Bidder on the Bid Form; or If the Bidder, having been notified of the acceptance of its Bid by the Purchaser during the period of bid validity: fails or refuses to execute the Contract Form, if required; or fails or refuses to furnish the performance security, In accordance with the Instructions to Bidders/GENERAL CONDITIONS.; We undertake to pay to the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that is its demand the purchaser will note that amount claimed by it is due to it, owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions. This guarantee will remain in force up to and including thirty (30) days after the period of bid validity, and any demand in respect thereof should reach the Bank not later than the above date. (Signature of the bank) Signature of the witness



Annexure-III

PRICE FORMAT

ENQUIRY NO & DATE: NIT: CMC/BR/22-23/RB/PR/RJ/1044

PRICE SCHEDULE

ITEM DESCRIPTION	QTY AS PER RFQ	UOM	EX- WORKS RATE/ UNIT	CGST (%)	CGST AMOUNT	SGST (%)	SGST AMOUNT	IGST (%)	IGST AMOUNT	FREIGH T	LANDE D RATE/ UNIT	TOTAL LANDED COST (INR)
TRANSFORMER ,CURRNT,66KV, 400-200/1-1-1-1A	32 Nos											
TRAFO,CURR,O UTDR; 800400/1/1/1/1A, 33KV	37 Nos											
TRAFO,CURR,1 600-800A;1-1-1 1Amp;66KV	80 Nos											

Note: 1.Prices shall be Firm

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

Bidders seal & signature



Annexure - IV

Enquiry No. : CMC/BR/22-23/RB/PR/RJ/1044

NIT No.: CMC/BR/22-23/RB/PR/RJ/1044

COMMERCIAL TERMS AND CONDITIONS

S/NO	ITEM DESCIPTION	AS PER BRPL	CONFIRMATION OF BIDDER
1	Validity of prices	120 days from date of offer	BIDDER
2	Price basis	Firm, FOR Delhi store basis, Prices shall be inclusive of all taxes & duties, freight upto Delhi stores. Unloading at stores be in vendor's scope Transit insurance in BRPL scope	
3	Payment Terms	100% payment within 45 days after receipt of material at stores	
4	Delivery schedule	As per our requirement	
5	Defect Liability Period	60 months after commissioning or 66 months from the last date of supply after commissioning, whichever is earlier.	
6	Penalty for delay	1% per week of delay of undelivered units or part thereof subject to maximum of 10% of total PO value of undelivered units	
7	Performance Bank Guarantee	10% of total PO value for 24 months after commissioning or 30 months from date of supply, whichever is earlier plus 3 months towards claim period	



ANNEXURE - V

ENQUIRY NO: CMC/BR/22-23/RB/PR/RJ/1044

NO DEVIATION SHEET

SL NO	SL NO OF TECHNICAL SPECIFICATION	DEVIATION, IF ANY

SIGNATURE & SEAL OF BIDDER

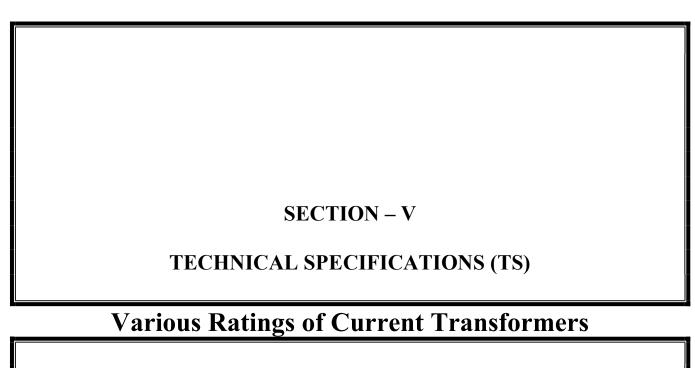
NIT No.: CMC/BR/22-23/RB/PR/RJ/1044

NAME OF BIDDER



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





CMC/BR/22-23/RB/PR/RJ/1044

The detailed technical specifications of CurrentTransformer (BSES-TS-31-ODCT-R0)

BSES

Technical Specification of Outdoor Current Transformer

Specification no - BSES-TS-31-ODCT-R0

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	0
	18 Apr 2022
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Abhishek Harsh	to 20/4/22
Amar Singh	f dare
Srinivas Gopu	\$3
Abhinav Srivastava	Halmin .
Gaurav Sharma	Jeanson .
Gopal Nariya	3
	Amar Singh Srinivas Gopu Abhinav Srivastava Gaurav Sharma



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TECHNICAL SPECIFICATION OF OUTDOOR CURRENT TRANSFORMER

RECORD OF REVISION

Clause No.	Change in Specification	Approved by	Rev



1.0 SCOPE OF SUPPLY

For scope of supply, refer Annexure A

2.0 CODES & STANDARDS

The manufacturing, rating & performance of the Outdoor Current Transformer shall conform to the latest edition of following standards:-

IS-2705 part 1	Specification for current transformer.
IS 16227/IEC 61869	Specification for current transformer.
IS 4201	Application guide for current transformer.
IS/IEC 60137	High voltage porcelain bushings
IS 731	Insulator for O/H power line
IS 335	New insulating oil Specification
IS 9676	Reference ambient temperature of electrical equipment
IS 5561	Specification of electric power connectors
IS 6949	Summation current transformer
IS/IEC 60529	Ingress protection
IS-5621	Hollow insulator for use in electrical equipment
IEC: 439	Specification for Terminal box / Marshalling box
	Indian Electricity Rules
	Indian electricity act
	CBIP manual

3.0 CURRENT TRANSFORMER DESIGN FEATURES

3.1.0	Туре	Shall be dead tank type, oil immersed, self-cooled outdoor type
3.2.0	Construction	 i) Oil immersed CT shall be hermetically sealed to eliminate breathing and to prevent air and moisture ingress. The core and winding shall be provided in porcelain bushing. Provision for oil expansion without breathing (bellow as per manufacturer design). ii) All ferrous parts, CT tank and other metallic parts exposed to atmosphere shall be hot dip galvanized. iii) Galvanising thickness shall be 610gm/sqmm minimum
3.3.0	Core	The core shall be of high-grade non-ageing, electrical



	T	cilian laminated atop of law hystograph lane and like
		silicon laminated steel of low hysteresis loss and high permeability to ensure high accuracy at both normal and over current conditions. The saturation factor of the core shall be low enough not to cause any damage to measuring instruments in the event of maximum short circuit current.
3.4.0	Winding	The winding shall be suitable for simultaneous 100% full load continuous rating. The winding shall be capable of desired output as per specified limit.
3.5.0	Insulation	 i) Class of Insulation should be Class A ii) The current transformer shall withstand satisfactorily the dielectric test voltage corresponding to basic insulation level specified.
3.6.0	Insulation Oil	The quantity of insulating oil in each current transformer shall be best available and the complete specification of the oil shall be furnished with the tender. The current transformer offered shall be hermetically sealed completely filled with insulating oil with provision to replace the oil. Oil level indication shall be provided.
3.7.0	Bushing	Porcelain used in bushing manufacture shall be homogenous, free from laminations, cavities and other flaws or imperfections that might effect the mechanical or dielectric quality. Glazing of the porcelain shall be uniform brown color free blisters, burns and similar defects. The bushing shall be designated to have ample insulation, mechanical strength and rigidity.
3.7.1	Creepage distance	Not less than 31mm /KV
3.7.2	Protected creepage distance	At least 50 % of total creepage distance
3.8.0	Terminals	
3.8.1	Primary terminals	Primary terminal should be tinned copper
3.8.2	Primary Terminal connectors	Universal type (Horizontal and vertical takeoff), Suitable for termination of Twin Zebra ACSR conductor. Connector should be of Aluminium alloy A6. Bimetallic sleeve of 1mm thickness should be provided for primary connection.
3.8.3	Secondary terminals Terminal Marking	 i) Provide Epoxy terminal block for separation of secondary terminals with main oil tank and further it is connected to secondary termination. ii) All the secondary terminals shall be bought in IP55 box with brass/ copper stud type terminals. iii) The secondary terminals shall be shorted by brass/copper links before dispatch. Terminal box to be provided with earthing stud. Terminal marking shall be as per IS 2705
	1	



3.9.0	Atmospheric protection for	Hot dip galvanizing as per IS 2633. The Minimum
	clamp and fitting of iron	thickness of galvanization should be 610 g/ sq mm.
	and steel	
3.10.0	Gland Plate	Min. 3 mm thick detachable undrilled gland plate.
3.11.0	Cable entry	Bottom for all cables
3.12.0	Earthing	The CT assembly comprising of the chasis, frame work
		and fixed parts of metal casing shall be provided with
		two separate body earthing terminals.
3.13.0	Drain Plug on tank Base	Required
3.14.0	Painting surface	Shot blasting or chemical 7 tank process
	preparation	
3.15.0	Painting	Polyurethane based paints shall be used. The color for
		the finishing paint shall be light gray as per shade No.
		692 as per IS-5

4.0 APPROVED MAKE OF COMPONENTS

4.1.0	Insulator	ABIL, WSI, Modern, Saravana, BHEL, CJI, IEC
4.2.0	Primary Terminal	Exalt, Tyco, Rashtraudyog, Burma
	Connector	
4.3.0	Secondary terminals	Connectwell / Elmex
4.4.0	Note	Any other make of component to be approved by
		Owner

5.0 NAME PLATE & TERMINAL MARKING

5.1.0	Material	Anodized aluminum 16SWG
5.1.1	Background	SATIN SILVER
5.1.2	Letters, diagram & border	Black
5.1.3	Process	Etching
5.2.0	Rating plate details	As per IS 2705 & IS 16227
5.2.1	Other details required on rating plate	Manufacturer name and address
		Customer name: BSES Yamuna Power
		Limited/ BSES Rajdhani Power Limited
		PO No. and Date
		Serial number and a type designation
		Rated Primary current & secondary
		current
		Rated frequency
		Rated output
		Connection Diagram
		Accuracy class, burden, knee point
		voltage, Magnetizing current
		Secondary resistance



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Highest system voltage,
Rated short time thermal current or
short time factor with rated time
Rated dynamic current
Rated Insulation level
Class of Insulation
Temperature class
Caution/Instructions
Minimum functional pressure
Rated filling pressure
Quantity of oil
Total weight
Warranty Period
Reference standard

6.0 QUALITY ASSURANCE, TESTING & INSPECTION

6.1.0	Vendor quality plan	To be submitted for purchaser approval
6.2.0	Inspection points	To be mutually identified & agreed in quality plan
6.3.0	Inspection and testing	
	during manufacture	
6.3.1	Tank	i) Checking of dimensions as per approved drawing.
		ii) Checking for leakage by pressure testing.
		iii) Thickness of Paint or Galvanisation, as applicable
6.3.2	Porcelain	i) Check dimension.
		ii) Check finish of sealing surface.
		iii) Check creepage distance.
		iv) Check for routine electrical test.
		v) Check for porosity and temperature cycle test.
6.3.3	Insulating Materials	i) Sample check for physical properties of materials.
		ii) Check for dielectric strength.
		iii) Visual and dimensional checks.
6.3.4	Copper conductor	i) Check for dimension.
		ii) Check for elongation.
		iii) Check for unidirectional scrap.
		iv) Heat shock.
6.3.5	Oil	i) Check for break down voltage.
		ii) Check for density.
		iii) Check for flash point.
		iv) Check for moisture content.
		v) Check for neutralization value.
		vi) Check for inter facial tension at 27 Deg c.
		vii) Check for sludge content.
		viii) Check for specific resistance.





		ix) Check for pour point.	
6.3.6	Secondary terminals	Check for one min AC Test	
6.4.0	Tests	Test shall be carried out in accordance with IS 2705/ IS 16227	
6.6.1	Type test	 i) Following type test shall be carried out on current transformer a. Short-time current test b. Temperature-rise test c. Lightning impulse test d. HV power frequency wet withstand voltage test on CT e. Determination of errors 	
		ii) Current transformer must be of type tested from CPRI/ERDA as per the IS 2707/ IS 16227 and reports shall be submitted	
		iii) Incase the product is never type tested earlier, seller has to conduct the type tests from CPRI/ERDA / internationally accredited test labs at their own cost, before commencement of supply.	
6.6.2	Routine Test	Test shall be carried out in accordance with IS 2705/ IS 16227	
6.6.3	Acceptance test	To be performed in presence of Owner's representative at manufacturer works:- i) Routine tests as per IS 2705/ IS 16227 ii) Physical inspection of dimensions and BOM. iii) Pressure test on tank iv) IP55 test on secondary compartment v) Creepage distance of bushing vi) Test on accessories as per manufacturer's standard	
6.7.0	Inspection and Testing	 i) The buyer reserves the right to witness all tests specified on completed product ii) The buyer reserves the right to inspect the product at the sellers works at any time prior to dispatch, to verify compliance with the specifications. iii) In-process and final inspection call intimation shall be given atleast 15 days in advance. 	

7.0 PACKING, SHIPPING, HANDLING & STORAGE

7.1.0	Packing Protection	Against corrosion, dampness, heavy
		rains, breakage and vibration
7.1.1	Packing for accessories and	Robust wooden non returnable packing case with
	spares	all the above protection & identification Label



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7.1.2	Packing Identification Label	In each packing case, following details				
		are required :				
		i) Individual serial number				
		ii) Purchaser's name				
		iii) PO number (along with SAP item code,				
		if any) & date				
		iv) Equipment Tag no. (if any)				
		v) Destination				
		vi) Manufacturer / Supplier's name				
		vii) Address of Manufacturer / Supplier /				
		it's agent				
		viii) Description and Quantity				
		ix) Country of origin				
		x) Month & year of Manufacturing				
		xi) Case measurements				
		xii) Gross and net weights in kilograms				
		xiii) All necessary slinging and stacking				
		instructions				
7.2.0	Shipping	i) Bidder shall furnish the confirmation that the				
		proposed packages can be delivered safely				
		upto the site.				
		ii) The seller shall be responsible for all transit				
		damage due to improper packing.				
7.3.0	Handling & Storage	Manufacturer instruction shall be followed. Detail				
		handling & storage instruction sheet / manual				
		needs to be furnished before commencement of				
		supply.				

8.0 PROGRESS REPORTING

8.1.0	Outline Document	To be submitted for purchaser approval for outline of production, inspection, testing, packing, dispatch, documentation program
8.2.0	Detailed Progress report	To be submitted to Purchaser once a month containing i) Progress on material procurement ii) Progress on fabrication (As applicable) iii) Progress on assembly (As applicable) iv) Progress on internal stage inspection v) Reason for any delay in total program vi) Details of test failures if any in manufacturing stages vii) Progress on final box up





viii) Constraints / forward path

9.0 DEVIATIONS

		Deviations from this Specification shall be stated
		in writing with the tender by reference to the
		Specification clause/GTP/Drawing and a
9.1.0	Deviation from the Specification	description of the alternative offer. In absence of
		such a statement, it will be assumed by the
		Buyer that the Seller complies fully with this
		specification.

10.0 DOCUMENT SUBMISSION

Document submission shall be as per the matrix given below. All documents/drawing shall be provided in soft copy (in pen drive) for each section. Language of the documents shall be English only. Deficient/improper drawing submission may liable for rejection.

		For	For	For Prior to
S.No.	Detail of Document	Tender	Approval/Review	Dispatch
1	Type test report shall be submitted for the type, size & rating of product / equipment offered along with bid.	Required		
2	Type test report shall be submitted for the type, size & rating of product / equipment offered along with bid. They shall be considered valid for 5 years from date of test performed on product / equipment.	Required		
3	Recommended spare parts and consumable items for 5 years of operation with prices and spare parts catalogue with list for future requirements.	Required		
4	Details of manufacturer's quality assurance standards and program and ISO 9000 series or equivalent national	Required		
5	Complete product catalogue and manual along with the bid.	Required		
6	Guaranteed Technical Particulars (GTP)	Required	Required	
9	Deviation Sheet, if any	Required	Required	
10	Complete assembly, GA drawing outdoor current transformer showing plan	Required	Required	
12	General arrangement drawing	Required	Required	



	secondary terminal box			
13	Structural drawing for CT mounting arrangement	Required	Required	
14	Rating plate diagram	Required	Required	
15	Drawings of terminal connectors	Required	Required	
16	Calculations to substantiate choice of electrical, mechanical component size / ratings	Required	Required	
17	Typical connection diagram and winding connection of current Transformer	Required	Required	
18	Quality plan	Required	Required	
19	Detailed installation and commissioning instructions	Required	Required	
20	Inspection and test reports, carried out in manufacturer's work			Required
21	Test certificates of all bought out items			Required
22	Operation and maintenance instruction as well as trouble shooting charts / manuals.			Required



ANNEXURE - A SCOPE OF SUPPLY

1.0 The scope of supply shall include following

- a. Design, manufacture, assembly, testing at stages of manufacture as per this specification, final testing at manufacturer works on completely assembled Current Transformer before dispatch, packing and delivery of Current Transformer
- b. Primary terminal connectors (Universal type)
- c. Fixing bolts and other accessories as per this specification.
- d. Submission of all documentation for the Current transformer and all accessories as mentioned below

2.0 Submission of documents

	Along with offer	For Approval after award of contract	Final after approval	Remarks
Drawings	3 copies (Typical drgs)	4 copies	6 copies + 1 soft copy in CD	See Clause 11.0 for various drawings required
Calculations	3 copies (Typical)	3 copies (Typical)	6 copies + 1 soft copy in CD	See Clause 11.0 for details
Catalogues	1 сору		6 copies + 1 soft copy in CD	
Instruction manual for the current transformer	1 copy		6 copies + 1 soft copy in CD	
Test Report	2 copies		6 copies + 1 soft copy in CD	Type test and sample routine test reports



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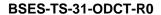
ANNEXURE – B SERVICE CONDITIONS

S No.	ENVIRONMENTAL CONDITION	REQUIREMENT
1	Average grade atmosphere	Heavily polluted, dry
2	Maximum altitude above sea level	1000 M
3	Ambient air temperature	Highest 50Deg C Average 40Deg C
4	Minimum ambient air temperature	0 Deg C
5	Relative Humidity	100%
6	Seismic Zone	4
7	Rainfall	750 mm concentrated in four months



ANNEXURE- C1 GUARANTEED TECHNICAL PARTICULARS (66KV, 2000-1000/1/1/1/1A)

S No.	Description	Data By Purchaser			Data By Supplier			
1	Name of Manufacturer							
2	Address and contact details							
3	Туре	Herm	utdoor, 0 etically s ase, Dea	sealed, S	Single			
4	Rated nominal voltage	-	66	kV				
5	Highest system voltage		72.	5kV				
6	Rated frequency		50	Hz				
7	Rated primary current		2000-1	1000 A				
8	Rated secondary current		1	A				
9	Number of core		Fo	ur				
10.0		Core- 1	Core- 2	Core-	Core- 4			
10.1	Secondary current (A)	1	1	1	1			
10.2	Application	Metering	Protection (O/C & E/F)	Protection (Bus Bar)	Protection (Spare)			
10.3	Rated Output (VA)	30	30					
10.4	Class of accuracy	0.2s	5P	PS	PS			
10.5	Instruments security factor	<=5	-	-	-			
10.6	Accuracy limit factor	-	20	-	-			
10.7	Knee point voltage and corresponding excitation current	-	-	≥40(Rct+ 8)	≥40(Rct+ 8)			
10.8	Magnetizing current at Vk/2 (mA)	-	-	≤30	≤30			
10.9	Resistance at secondary winding at 75 Deg. C (ohms)							
10.10	Secondary limiting voltage							
11	Short time thermal rating of primary				•	<u> </u>	•	
11.1	One second							





S No.	Description	Data By Purchaser	Data By Supplier
11.2	Three seconds	31.5 KA	
12	Rated dynamic current of primary		
13	Rated continuous thermal current		
14	Temperature rise at ambient temp 50 deg.		
14.1	Winding		
14.2	Oil at top		
14.3	Exposed current carrying parts		
15	One minute power frequency dry withstand voltage	140kV (rms)	
16	One minute power frequency wet withstand voltage	140kV (rms)	
17	1.2/50 microsecond impulse withstand test voltage	325 KV (peak)	
18	Minimum creepage distance in mm	31KV / mm	
19	Protective creepage distance in mm		
20	Magnetization curve of CT core		
21	Variation in ratio and phase angle error due to variation in		
21.1	Voltage by 1 volts		
21.2	Frequency by 1 Hz		
22	Current density in primary winding (A/sqmm)		
23	Weight of oil		
24	Total weight		
25	Mounting details		
26	Overall dimensions		
27	Terminal connector		



ANNEXURE- C2 GUARANTEED TECHNICAL PARTICULARS (66KV, 1000-500/1/1/1/1A)

S No.	Description	Data By Purchaser			Data By Supplier				
1	Name of Manufacturer								
2	Address and contact details								
3	Туре	Herm	utdoor, 0 etically s ase, Dea	sealed, S	Single				
4	Rated nominal voltage		66	kV					
5	Highest system voltage		72.	5kV					
6	Rated frequency		50	Hz					
7	Rated primary current		1000-	500 A					
8	Rated secondary current		1.	A					
9	Number of core		Fo	ur					
10.0		Core- 1	Core- 2	Core-	Core-				
10.1	Secondary current (A)	1	1	1	1				
10.2	Application	Metering	Protection (O/C & E/F)	Protection (Bus Bar)	Protection (Spare)				
10.3	Rated Output (VA)	30	30						
10.4	Class of accuracy	0.2s	5P	PS	PS				
10.5	Instruments security factor	<=5	-	-	-				
10.6	Accuracy limit factor	-	20	_	-				
10.7	Knee point voltage and corresponding excitation current	-	-	≥40(Rct+ 8)	≥40(Rct+ 8)				
10.8	Magnetizing current at Vk/2 (mA)	-	-	≤30	≤30				
10.9	Resistance at secondary winding at 75 Deg. C (ohms)								
10.10	Secondary limiting voltage								
11	Short time thermal rating of primary					.	l.		
11.1	One second								



S No.	Description	Data By Purchaser	Data By Supplier
11.2	Three seconds	31.5 KA	
12	Rated dynamic current of primary		
13	Rated continuous thermal current		
14	Temperature rise at ambient temp 50 deg.		
14.1	Winding		
14.2	Oil at top		
14.3	Exposed current carrying parts		
15	One minute power frequency dry withstand voltage	140kV (rms)	
16	One minute power frequency wet withstand voltage	140kV (rms)	
17	1.2/50 microsecond impulse withstand test voltage	325 KV (peak)	
18	Minimum creepage distance in mm	31KV / mm	
19	Protective creepage distance in mm		
20	Magnetization curve of CT core		
21	Variation in ratio and phase angle error due to variation in		
21.1	Voltage by 1 volts		
21.2	Frequency by 1 Hz		
22	Current density in primary winding (A/sqmm)		
23	Weight of oil		
24	Total weight		
25	Mounting details		
26	Overall dimensions		
27	Terminal connector		



ANNEXURE- C3 GUARANTEED TECHNICAL PARTICULARS (66KV, 800-400/1/1/1A)

S No.	Description	Da	Data By Purchaser			Dat	a By S	Supplie	r
1	Name of Manufacturer								
2	Address and contact details								
3	Туре	Herm	utdoor, 0 etically s ase, Dea	sealed, \$	Single				
4	Rated nominal voltage		66	kV					
5	Highest system voltage		72.	5kV					
6	Rated frequency		50	Hz					
7	Rated primary current		800-4	100 A					
8	Rated secondary current		1	A					
9	Number of core		Fo	our					
10.0		Core-	Core- 2	Core-	Core-				
10.1	Secondary current (A)	1	1	1	1				
10.2	Application	Metering	Protection (O/C & E/F)	Protection (Bus Bar)	Protection (Spare)				
10.3	Rated Output (VA)	30	30						
10.4	Class of accuracy	0.2s	5P	PS	PS				
10.5	Instruments security factor	<=5	-	-	-				
10.6	Accuracy limit factor	-	20	-	-				
10.7	Knee point voltage and corresponding excitation current	_	-	≥40(Rct+ 8)	≥40(Rct+ 8)				
10.8	Magnetizing current at Vk/2 (mA)	-	-	≤30	≤30				
10.9	Resistance at secondary winding at 75 Deg. C (ohms)								
10.10	Secondary limiting voltage								
11	Short time thermal rating of primary					1	•	•	
11.1	One second								

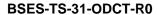


S No.	Description	Data By Purchaser	Data By Supplier
11.2	Three seconds	31.5 KA	
12	Rated dynamic current of primary		
13	Rated continuous thermal current		
14	Temperature rise at ambient temp 50 deg.		
14.1	Winding		
14.2	Oil at top		
14.3	Exposed current carrying parts		
15	One minute power frequency dry withstand voltage	140kV (rms)	
16	One minute power frequency wet withstand voltage	140kV (rms)	
17	1.2/50 microsecond impulse withstand test voltage	325 KV (peak)	
18	Minimum creepage distance in mm	31KV / mm	
19	Protective creepage distance in mm		
20	Magnetization curve of CT core		
21	Variation in ratio and phase angle error due to variation in		
21.1	Voltage by 1 volts		
21.2	Frequency by 1 Hz		
22	Current density in primary winding (A/sqmm)		
23	Weight of oil		
24	Total weight		
25	Mounting details		
26	Overall dimensions		
27	Terminal connector		



ANNEXURE- C4 GUARANTEED TECHNICAL PARTICULARS (66KV, 400-200/1/1/1A)

S No.	Description	Da	Data By Purchaser			Da	ata B	y Sup	plier
1	Name of Manufacturer								
2	Address and contact details								
3	Туре	Herm	utdoor, 0 etically s ase, De	sealed, S	Single				
4	Rated nominal voltage		66	kV					
5	Highest system voltage		72.	5kV					
6	Rated frequency		50	Hz					
7	Rated primary current		400-2	200 A					
8	Rated secondary current		1	A					
9	Number of core		Fo	our					
10.0		Core-	Core-	Core-	Core- 4				
10.1	Secondary current (A)	1	1	1	1				
10.2	Application	Metering	Protection (O/C & E/F)	Protection (Bus Bar)	Protection (Spare)				
10.3	Rated Output (VA)	30	30						
10.4	Class of accuracy	0.2s	5P	PS	PS				
10.5	Instruments security factor	<=5	-	-	-				
10.6	Accuracy limit factor	-	20	-	-				
10.7	Knee point voltage and corresponding excitation current	-	-	≥40(Rct+ 8)	≥40(Rct+ 8)				
10.8	Magnetizing current at Vk/2 (mA)	-	-	≤30	≤30				
10.9	Resistance at secondary winding at 75 Deg. C (ohms)								
10.10	Secondary limiting voltage								
11	Short time thermal rating of primary		1	1					
11.1	One second	1							



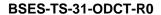


S No.	Description	Data By Purchaser	Data By Supplier
11.2	Three seconds	31.5 KA	
12	Rated dynamic current of primary		
13	Rated continuous thermal current		
14	Temperature rise at ambient temp 50 deg.		
14.1	Winding		
14.2	Oil at top		
14.3	Exposed current carrying parts		
15	One minute power frequency dry withstand voltage	140kV (rms)	
16	One minute power frequency wet withstand voltage	140kV (rms)	
17	1.2/50 microsecond impulse withstand test voltage	325 KV (peak)	
18	Minimum creepage distance in mm	31KV / mm	
19	Protective creepage distance in mm		
20	Magnetization curve of CT core		
21	Variation in ratio and phase angle error due to variation in		
21.1	Voltage by 1 volts		
21.2	Frequency by 1 Hz		
22	Current density in primary winding (A/sqmm)		
23	Weight of oil		
24	Total weight		
25	Mounting details		
26	Overall dimensions		
27	Terminal connector		



ANNEXURE- C5 GUARANTEED TECHNICAL PARTICULARS (33KV, 2000-1000/1/1/1/1A)

S No.	Description	Da	Data By Purchaser			Data	By Supplier
1	Name of Manufacturer						
2	Address and contact details						
3	Туре	Herm	utdoor, 0 etically s ase, Dea	sealed, S	Single		
4	Rated nominal voltage		33	kV			
5	Highest system voltage		36	kV			
6	Rated frequency		50	Hz			
7	Rated primary current		2000-1	1000 A			
8	Rated secondary current		1	A			
9	Number of core		Fo	our			
10.0		Core- 1	Core- 2	Core-	Core-		
10.1	Secondary current (A)	1	1	1	1		
10.2	Application	Metering	Protection (O/C & E/F)	Protection (Bus Bar)	Protection (Spare)		
10.3	Rated Output (VA)	30	30				
10.4	Class of accuracy	0.2s	5P	PS	PS		
10.5	Instruments security factor	<=5	-	-	-		
10.6	Accuracy limit factor	-	20	-	-		
10.7	Knee point voltage and corresponding excitation current	-	-	≥40(Rct+ 8)	≥40(Rct+ 8)		
10.8	Magnetizing current at Vk/2 (mA)	-	-	≤30	≤30		
10.9	Resistance at secondary winding at 75 Deg. C (ohms)						
10.10	Secondary limiting voltage						
11	Short time thermal rating of primary					•	, ,
11.1	One second						
11.2	Three seconds		26.3	3 KA			



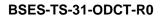


S No.	Description	Data By Purchaser	Data By Supplier
12	Rated dynamic current of primary		
13	Rated continuous thermal current		
14	Temperature rise at ambient temp 50 deg.		
14.1	Winding		
14.2	Oil at top		
14.3	Exposed current carrying parts		
15	One minute power frequency dry withstand voltage	70 kV (rms)	
16	One minute power frequency wet withstand voltage	70 kV (rms)	
17	1.2/50 microsecond impulse withstand test voltage	170 KV (peak)	
18	Minimum creepage distance in mm	31KV / mm	
19	Protective creepage distance in mm		
20	Magnetization curve of CT core		
21	Variation in ratio and phase angle error due to variation in		
21.1	Voltage by 1 volts		
21.2	Frequency by 1 Hz		
22	Current density in primary winding (A/sqmm)		
23	Weight of oil		
24	Total weight		
25	Mounting details		
26	Overall dimensions		
27	Terminal connector		



ANNEXURE- C6 GUARANTEED TECHNICAL PARTICULARS (33KV, 1000-500/1/1/1/1A)

S No.	Description	Data By Purchaser			Data	a By Su	pplier	
1	Name of Manufacturer							
2	Address and contact details							
3	Туре	Herm	utdoor, 0 etically s ase, Dea	sealed, S	Single			
4	Rated nominal voltage		33	kV				
5	Highest system voltage		36	kV				
6	Rated frequency		50	Hz				
7	Rated primary current		1000-	500 A				
8	Rated secondary current		1.	A				
9	Number of core		Fc	ur				
10.0		Core- 1	Core-	Core-	Core- 4			
10.1	Secondary current (A)	1	1	1	1			
10.2	Application	Metering	Protection (O/C & E/F)	Protection (Bus Bar)	Protection (Spare)			
10.3	Rated Output (VA)	30	30					
10.4	Class of accuracy	0.2s	5P	PS	PS			
10.5	Instruments security factor	<=5	-	-	-			
10.6	Accuracy limit factor	-	20	_	-			
10.7	Knee point voltage and corresponding excitation current	-	-	≥40(Rct+ 8)	≥40(Rct+ 8)			
10.8	Magnetizing current at Vk/2 (mA)	-	-	≤30	≤30			
10.9	Resistance at secondary winding at 75 Deg. C (ohms)							
10.10	Secondary limiting voltage							
11	Short time thermal rating of primary							
11.1	One second							
11.2	Three seconds		26.3	KA				



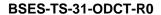


S No.	Description	Data By Purchaser	Data By Supplier
12	Rated dynamic current of primary		
13	Rated continuous thermal current		
14	Temperature rise at ambient temp 50 deg.		
14.1	Winding		
14.2	Oil at top		
14.3	Exposed current carrying parts		
15	One minute power frequency dry withstand voltage	70 kV (rms)	
16	One minute power frequency wet withstand voltage	70 kV (rms)	
17	1.2/50 microsecond impulse withstand test voltage	170 KV (peak)	
18	Minimum creepage distance in mm	31KV / mm	
19	Protective creepage distance in mm		
20	Magnetization curve of CT core		
21	Variation in ratio and phase angle error due to variation in		
21.1	Voltage by 1 volts		
21.2	Frequency by 1 Hz		
22	Current density in primary winding (A/sqmm)		
23	Weight of oil		
24	Total weight		
25	Mounting details		
26	Overall dimensions		
27	Terminal connector		



ANNEXURE- C7 GUARANTEED TECHNICAL PARTICULARS (33KV, 800-400/1/1/1A)

S No.	Description	Data By Purchaser			er	Data	By Supplier
1	Name of Manufacturer						
2	Address and contact details						
3	Туре	Herm	utdoor, (etically s ase, Dea	sealed, S	Single		
4	Rated nominal voltage		33	kV			
5	Highest system voltage		36	kV			
6	Rated frequency		50	Hz			
7	Rated primary current		800-4	100 A			
8	Rated secondary current		1	A			
9	Number of core		Fo	our			
10.0		Core-	Core-	Core-	Core-		
10.1	Secondary current (A)	1	1	1	1		
10.2	Application	Metering	Protection (O/C & E/F)	Protection (Bus Bar)	Protection (Spare)		
10.3	Rated Output (VA)	30	30				
10.4	Class of accuracy	0.2s	5P	PS	PS		
10.5	Instruments security factor	<=5	-	-	-		
10.6	Accuracy limit factor	-	20	-	-		
10.7	Knee point voltage and corresponding excitation current	-	-	≥40(Rct+	≥40(Rct+ 8)		
10.8	Magnetizing current at Vk/2 (mA)	-	-	≤30	≤30		
10.9	Resistance at secondary winding at 75 Deg. C (ohms)						
10.10	Secondary limiting voltage						
11	Short time thermal rating of primary						
11.1	One second						
11.2	Three seconds		26.3	3 KA			



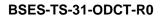


S No.	Description	Data By Purchaser	Data By Supplier
12	Rated dynamic current of primary		
13	Rated continuous thermal current		
14	Temperature rise at ambient temp 50 deg.		
14.1	Winding		
14.2	Oil at top		
14.3	Exposed current carrying parts		
15	One minute power frequency dry withstand voltage	70 kV (rms)	
16	One minute power frequency wet withstand voltage	70 kV (rms)	
17	1.2/50 microsecond impulse withstand test voltage	170 KV (peak)	
18	Minimum creepage distance in mm	31KV / mm	
19	Protective creepage distance in mm		
20	Magnetization curve of CT core		
21	Variation in ratio and phase angle error due to variation in		
21.1	Voltage by 1 volts		
21.2	Frequency by 1 Hz		
22	Current density in primary winding (A/sqmm)		
23	Weight of oil		
24	Total weight		
25	Mounting details		
26	Overall dimensions		
27	Terminal connector		



ANNEXURE- C8 GUARANTEED TECHNICAL PARTICULARS (66KV, NCT 2000-1000/1-1A)

S No.	Description	Data By	Purchaser	Data By Supplier
1	Name of Manufacturer			
2	Address and contact details			
3	Туре	Hermetically	Oil cooled, sealed, Single ad tank CT	
4	Rated nominal voltage	66	SkV	
5	Highest system voltage	72.	5kV	
6	Rated frequency	50	Hz	
7	Rated primary current	2000-	1000 A	
8	Rated secondary current	1	Α	
9	Number of core		2	
10.0		Core-1	Core-2	
10.1	Secondary current (A)	1	1	
10.2	Application	Protection (O/C & E/F)	Protection	
10.3	Rated Output (VA)	30		
10.4	Class of accuracy	5P	PS	
10.5	Instruments security factor	-	-	
10.6	Accuracy limit factor	20		
10.7	Knee point voltage and corresponding excitation current	-	≥40(Rct+ 8)	
10.8	Magnetizing current at Vk/2 (mA)	-	≤30mA	
10.9	Resistance at secondary winding at 75 Deg. C (ohms)			
10.10	Secondary limiting voltage			
11	Short time thermal rating of primary			
11.1	One second			
11.2	Three seconds	31.	5 kA	



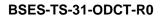


S No.	Description	Data By Purchaser	Data By Supplier
12	Rated dynamic current of primary		
13	Rated continuous thermal current		
14	Temperature rise at ambient temp 50 deg. C		
14.1	Winding		
14.2	Oil at top		
14.3	Exposed current carrying parts		
15	One minute power frequency dry withstand voltage	140kV (rms)	
16	One minute power frequency wet withstand voltage	140kV (rms)	
17	1.2/50 microsecond impulse withstand test voltage	325 KV (peak)	
18	Minimum creepage distance in mm	31KV / mm	
19	Protective creepage distance in mm		
20	Magnetization curve of CT core		
21	Variation in ratio and phase angle error due to variation in		
21.1	Voltage by 1 volts		
21.2	Frequency by 1 Hz		
22	Current density in primary winding (A/sqmm)		
23	Weight of oil		
24	Total weight		
25	Mounting details		
26	Overall dimensions		
27	Terminal connector		



ANNEXURE- C9 GUARANTEED TECHNICAL PARTICULARS (33KV, NCT 2000-1000/1/1A)

S No.	Description	Data By I	Purchaser	Data By Supplier
1	Name of Manufacturer			
2	Address and contact details			
3	Туре	Hermetically	Oil cooled, sealed, Single ad tank NCT	
4	Rated nominal voltage	33	BkV	
5	Highest system voltage	36	SkV	
6	Rated frequency	50	Hz	
7	Rated primary current	2000-	1000 A	
8	Rated secondary current	1	A	
9	Number of core		2	
10.0		Core-1	Core-2	
10.1	Secondary current (A)	1	1	
10.2	Application	Protection (O/C & E/F)	Protection	
10.3	Rated Output (VA)	30		
10.4	Class of accuracy	5P	PS	
10.5	Instruments security factor	-	-	
10.6	Accuracy limit factor	20		
10.7	Knee point voltage and corresponding excitation current	-	≥40(Rct+	
10.8	Magnetizing current at Vk/2 (mA)	-	≤30mA	
10.9	Resistance at secondary winding at 75 Deg. C (ohms)			
10.10	Secondary limiting voltage			
11	Short time thermal rating of primary			
11.1	One second			



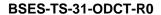


S No.	Description	Data By Purchaser	Data By Supplier
11.2	Three seconds	26.3 KA	
12	Rated dynamic current of primary		
13	Rated continuous thermal current		
14	Temperature rise at ambient temp 50 deg. C		
14.1	Winding		
14.2	Oil at top		
14.3	Exposed current carrying parts		
15	One minute power frequency dry withstand voltage	70kV (rms)	
16	One minute power frequency wet withstand voltage	70kV (rms)	
17	1.2/50 microsecond impulse withstand test voltage	170 KV (peak)	
18	Minimum creepage distance in mm	31KV / mm	
19	Protective creepage distance in mm		
20	Magnetization curve of CT core		
21	Variation in ratio and phase angle error due to variation in		
21.1	Voltage by 1 volts		
21.2	Frequency by 1 Hz		
22	Current density in primary winding (A/sqmm)		
23	Weight of oil		
24	Total weight		
25	Mounting details		
26	Overall dimensions		
27	Terminal connector		



ANNEXURE- C10 GUARANTEED TECHNICAL PARTICULARS (33KV, NCT 10/1-1A)

S No.	Description	Data By I	Purchaser	Data By Supplier
1	Name of Manufacturer			
2	Address and contact details			
3	Туре	Hermetically	Oil cooled, sealed, Single ad tank NCT	
4	Rated nominal voltage	33	BkV	
5	Highest system voltage	36	3kV	
6	Rated frequency	50	Hz	
7	Rated primary current	10) A	
8	Rated secondary current		A	
9	Number of core		2	
10.0		Core-1	Core-2	
10.1	Secondary current (A)	1	1	
10.2	Application	Protection (O/C & E/F)	Protection (REF)	
10.3	Rated Output (VA)	30		
10.4	Class of accuracy	5P	PS	
10.5	Instruments security factor	-	-	
10.6	Accuracy limit factor	20		
10.7	Knee point voltage and corresponding excitation current	-	≥40(Rct+	
10.8	Magnetizing current at Vk/2 (mA)	-	≤30mA	
10.9	Resistance at secondary winding at 75 Deg. C (ohms)			
10.10	Secondary limiting voltage			
11	Short time thermal rating of primary			·
11.1	One second			
11.2	Three seconds	100 times of r	ated primary	





S No.	Description	Data By Purchaser	Data By Supplier
		current	
12	Rated dynamic current of primary		
13	Rated continuous thermal current		
14	Temperature rise at ambient temp 50 deg. C		
14.1	Winding		
14.2	Oil at top		
14.3	Exposed current carrying parts		
15	One minute power frequency dry withstand voltage	70kV (rms)	
16	One minute power frequency wet withstand voltage	70kV (rms)	
17	1.2/50 microsecond impulse withstand test voltage	170 KV (peak)	
18	Minimum creepage distance in mm	31KV / mm	
19	Protective creepage distance in mm		
20	Magnetization curve of CT core		
21	Variation in ratio and phase angle error due to variation in		
21.1	Voltage by 1 volts		
21.2	Frequency by 1 Hz		
22	Current density in primary winding (A/sqmm)		
23	Weight of oil		
24	Total weight		
25	Mounting details		
26	Overall dimensions		
27	Terminal connector		



ANNEXURE- C11 GUARANTEED TECHNICAL PARTICULARS (11KV, NCT 1600/1-1A)

S No.	Description	Data By	Purchaser	Data By Supplier
1	Name of Manufacturer			
2	Address and contact details			
3	Туре	Hermetically	Oil cooled, sealed, Single ad tank NCT	
4	Rated nominal voltage	11	1kV	
5	Highest system voltage	12	2kV	
6	Rated frequency	50) Hz	
7	Rated primary current	16	00A	
8	Rated secondary current	1	1A	
9	Number of core		2	
10.0		Core-1	Core-2	
10.1	Secondary current (A)	1	1	
10.2	Application	Protection (O/C & E/F)	Protection (Busbar)	
10.3	Rated Output (VA)	30		
10.4	Class of accuracy	5P	PS	
10.5	Instruments security factor	-	-	
10.6	Accuracy limit factor	20		
10.7	Knee point voltage and corresponding excitation current	-	≥40(Rct+8	
10.8	Magnetizing current at Vk/2 (mA)	-	≤30mA	
10.9	Resistance at secondary winding at 75 Deg. C (ohms)			
10.10	Secondary limiting voltage			
11	Short time thermal rating of primary			·
11.1	One second			
11.2	Three seconds	26.3	3 KA	

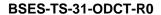


12	Rated dynamic current of primary		
13	Rated continuous thermal current		
	Temperature rise at		
14	ambient temp 50 deg. C		
14.1	Winding		
14.2	Oil at top		
	Exposed current		
14.3	carrying parts		
	One minute power		
15	frequency dry withstand		
	voltage		
	One minute power		
16	frequency wet withstand	28kV (rms)	
	voltage		
4-	1.2/50 microsecond	75.1077	
17	impulse withstand test	75 KV (peak)	
	voltage		
18	Minimum creepage	31KV / mm	
	distance in mm		
19	Protective creepage distance in mm		
20	Magnetization curve of CT core		
	Variation in ratio and		
21	phase angle error due to		
21	variation in		
21.1	Voltage by 1 volts		
21.2	Frequency by 1 Hz		
	Current density in		
22	primary winding		
	(A/sqmm)		
23	Weight of oil		
	Total weight		
24	_		
25	Mounting details		
26	Overall dimensions		
27	Terminal connector		



ANNEXURE- C12 GUARANTEED TECHNICAL PARTICULARS (11KV, NCT 1200/1-1A)

S No.	Description	Data By F	Purchaser	Data By Supplier
1	Name of Manufacturer			
2	Address and contact details			
3	Туре	Hermetically	Oil cooled, sealed, Single id tank NCT	
4	Rated nominal voltage	11	kV	
5	Highest system voltage	12	kV	
6	Rated frequency	50	Hz	
7	Rated primary current	120	00A	
8	Rated secondary current	1	A	
9	Number of core	2	2	
10.0		Core-1	Core-2	
10.1	Secondary current (A)	1	1	
10.2	Application	Protection (O/C & E/F)	Protection (Busbar)	
10.3	Rated Output (VA)	30		
10.4	Class of accuracy	5P	PS	
10.5	Instruments security factor	-	-	
10.6	Accuracy limit factor	20		
10.7	Knee point voltage and corresponding excitation current	-	≥40(Rct+ 8)	
10.8	Magnetizing current at Vk/2 (mA)	-	≤30mA	
10.9	Resistance at secondary winding at 75 Deg. C (ohms)			
10.10	Secondary limiting voltage			
11	Short time thermal rating of primary			<u> </u>
11.1	One second			





S No.	Description	Data By Purchaser	Data By Supplier
11.2	Three seconds	26.3 KA	
12	Rated dynamic current of primary		
13	Rated continuous thermal current		
14	Temperature rise at ambient temp 50 deg.		
14.1	Winding		
14.2	Oil at top		
14.3	Exposed current carrying parts		
15	One minute power frequency dry withstand voltage		
16	One minute power frequency wet withstand voltage	28kV (rms)	
17	1.2/50 microsecond impulse withstand test voltage	75 KV (peak)	
18	Minimum creepage distance in mm	31KV / mm	
19	Protective creepage distance in mm		
20	Magnetization curve of CT core		
21	Variation in ratio and phase angle error due to variation in		
21.1	Voltage by 1 volts		
21.2	Frequency by 1 Hz		
22	Current density in primary winding (A/sqmm)		
23	Weight of oil		
24	Total weight		
25	Mounting details		
26	Overall dimensions		
27	Terminal connector		



ANNEXURE- C13 GUARANTEED TECHNICAL PARTICULARS (11KV, NCT 1200/0.578-0.578A

S No.	Description	Data By I	Purchaser	Data By Supplier
1	Name of Manufacturer			
2	Address and contact details			
3	Туре	Hermetically	Oil cooled, sealed, Single ad tank NCT	
4	Rated nominal voltage	11	kV	
5	Highest system voltage	12	2kV	
6	Rated frequency	50	Hz	
7	Rated primary current	12	00A	
8	Rated secondary current	0.5	78A	
9	Number of core		2	
10.0		Core-1	Core-2	
10.1	Secondary current (A)	0.578	0.578	
10.2	Application	Protection (O/C & E/F)	Protection (Busbar)	
10.3	Rated Output (VA)	30		
10.4	Class of accuracy	5P	PS	
10.5	Instruments security factor	-	-	
10.6	Accuracy limit factor	20		
10.7	Knee point voltage and corresponding excitation current	-	≥40(Rct+	
10.8	Magnetizing current at Vk/2 (mA)	-	≤30mA	
10.9	Resistance at secondary winding at 75 Deg. C (ohms)			
10.10	Secondary limiting voltage			
11	Short time thermal rating of primary			<u>, </u>
11.1	One second			



S No.	Description	Data By Purchaser	Data By Supplier
11.2	Three seconds	26.3 KA	
12	Rated dynamic current of primary		
13	Rated continuous thermal current		
14	Temperature rise at ambient temp 50 deg. C		
14.1	Winding		
14.2	Oil at top		
14.3	Exposed current carrying parts		
15	One minute power frequency dry withstand voltage		
16	One minute power frequency wet withstand voltage	28kV (rms)	
17	1.2/50 microsecond impulse withstand test voltage	75 KV (peak)	
18	Minimum creepage distance in mm	31KV / mm	
19	Protective creepage distance in mm		
20	Magnetization curve of CT core		
21	Variation in ratio and phase angle error due to variation in		
21.1	Voltage by 1 volts		
21.2	Frequency by 1 Hz		
22	Current density in primary winding (A/sqmm)		
23	Weight of oil		
24	Total weight		
25	Mounting details		
26	Overall dimensions		
27	Terminal connector		



TECHNICAL SPECIFICATION OF OUTDOOR CURRENT TRANSFORMER

ANNEXURE - D RECOMENDED SPARES (DATA BY SUPPLIER)

List of recommended spares as following –

Sr No	Description of spare part	Unit	Quantity
1		No	
2		No	
3			
4			
5			