TRANSMISSION CORPORATION OF TELANGANA LIMITED

Website: www.TGTransco.in. GST No. 36AAFCT0166J1Z9 CIN No. U40102TG2014SGC094248

From:
The Chief Engineer,
P&MM, TGTransco,
Vidyut Soudha,
HYDERABAD – 500 082.
Tel/Fax : 040-23303736
Email: ce.pmm@tgtransco.com

To:
M/s. Perfect Sales Corporation,
Plot No. 12, Sec.-I.I.D.C., SIDCUL, I.I.E.,
Pant Nagar, Rudrapur ,
Udham Singh Nagar (Dist),
Uttarakhand – 263153.
Tel: 05944-250299, 250529
Email: info@perfectsales.net

SAP PO.No.4500003314/CE(P&MM)/SE(P&MM)/DE41/TGPMM41-27/2024/33KV CTs(2000A)/ D.No.172/2024, Dt: 14.02.2025.

Sirs,

Sub: Tender Specification No. TGPMM41-27/2024 – Supply of 209Nos. 33kV Current Transformers (2000-1000-600-400/1-1-1)A 0.2S Class accuracy for metering core – Detailed Purchase Order – Issued – Regarding.

Ref:
1. Tender Specification No.TGPMM41-27/2024.
2. Your offer against Tender Specification No.TGPMM41-27/2024 on e - platform.
3. Your Lr. No. PSC/TGTRANSCO/24-25/4908, Dt: 09.01.2025.
4. LOI No.CE(P&MM)/SE(P&MM)/DE41/TGPMM41-27/2024/33KV CTs (2000A)/ D.No.164/2024, Dt: 31.01.2025.

* * *

I, acting for and on behalf of and by the order and direction of TRANSMISSION CORPORATION OF TELANGANA LIMITED, accept the prices offered by you, vide ref (2) and read with your letter vide ref (3) cited, against Tender Specification No. TGPMM41-27/2024**,** for supply of equipment detailed in clause (2) below, with the terms and conditions as per the Tender Specification No. TGPMM41-27/2024.

1. Scope of Contract:

This contract relates to the supply of the equipment detailed in clause –2 below and covers design, manufacture, acceptance testing, dispatch and delivery F.O.R. destination/Stores/site within State of Telangana as detailed in this purchase order.

2. Schedule of Equipment & Prices:

(a) Supply of 209Nos. 33kV Current Transformers (2000-1000-600-400/1-1-1)A, 0.2S Class accuracy for metering core conforming to latest IEC/IS, complete with Terminal Connectors suitable for twin ACSR Moose conductor and as per Technical specification and as per the price break-up indicated below:

All Financial Figures are in Rs.

Sl. No.	Description	33KV Current Transformers (2000-1000-600-400/1-1-1)A (HSN Code: 85043100)4
1	Ex-Works	73,000.00
2	Packing & Forwarding	1,460.00
3	Freight	2,000.00
4	Insurance	50.00
5	Total Taxable Unit Rate	76,510.00
6	IGST @ 18% on Ex-Works+ Freight+ Insurance	13,771.80
7	**Unit FADS Price including Taxes**	**90,281.80**
8	Quantity (Nos.)	209
9	**Total Amount**	**1,88,68,896.20**
Rupees One crore Eighty Eight Lakhs Sixty Eight Thousand Eight Hundred Ninty Six and Twenty Paisa only		

(b) The equipment shall be supplied from your works. The prices of equipment accepted above are FIRM and FOR delivery destination stores.

(c) The dispatch of the equipment is by road only. The transit insurance shall include storage cover for 45 days at destination stores.

(d) It is noted that the prices are with the present rate of GST @ 18% (SGST @ 9% + CGST @ 9%) on the total of Ex-works, Packing & Forwarding, Freight and Insurance.

(e) TGTransco shall have the right to vary the ordered quantity by +/- 50% at any time during the execution of the order.

(f) The Price is inclusive of all incidental charges such as packing, forwarding, handling, unloading and other incidentals.

(g) TCS at prevailing rates is applicable on any payment made (not applicable on ETC charges), if company's aggregate sales consideration during the relevant financial year exceeds Rs.50 Lakhs and total sales, gross receipts or total turnover including GST if any exceeds Rs.10 Crores in the financial year immediately preceding the financial year of subject sales.

The payment of TCS shall be subjected to furnishing of necessary documents. The stipulated conditions are to be verified by the DDOs while processing the bills.

The PAN No. of TS TRANSCO is AAFCT0166J.

(h) i) e-invoicing (IRN) is mandatory for businesses whose aggregate turnover exceeds 5 crores in a financial year.

ii) A declaration for turnover shall be submitted in case of non applicability of e-invoicing.

iii) Copy of the GST payment challan and proof of filing of GST return (the latest bill copies or previous bill copies) shall be submitted along with the bill/invoices

Submission of the above documents may be ensured by DDO/UO while processing the bills

3. **Delivery:** To commence supply with 29Nos. within three months from the date of Letter of Intent and complete balance supplies @ 45Nos. per month thereafter.

4. **Performance Security:**

Performance Security for 10% of the contract value i.e. for **Rs.18,86,890**/- (Rupees Eighteen Lakhs Eighty Six Thousand Eight Hundred and Ninety Only) with a validity 60 days beyond the date of completion of performance obligations including warranty obligations is to be furnished.

In the event of any correction of defects or replacement of defective material during the warranty period, the warranty for the corrected/replaced material will be extended to a further period of 12 months and the Performance Bank Guarantee for proportionate value will be extended 60 days over and above the extended warranty period. It is entirely your responsibility to extend the validity of this Bank Guarantee to cover the period of guarantee well before its expiry.

5. **Guaranteed Technical Particulars:** The Guaranteed Technical Particulars are enclosed to this Purchase Order. The drawings shall be furnished immediately for approval.

6. **Payment:**

a) 100% payment will be arranged through PFC/REC/Bank/TGTransco funds within 45 days reckoned from the check measurement date in Form-13.

b) For Real Time Gross Settlement (RTGS) the details of your Bank Account are as follows:

(i)	Company Name	M/s. Perfect Sales Corporation
(ii)	Name of the Bank	Union Bank of India
(iii)	Branch Address	SSI Okhla Branch, 173-174 DSIDC Shed, New Delhi.
(iv)	Branch Code	30452
(v)	City	New Delhi
(vi)	Account No.	560101000097030
(vii)	MICR Code	110026454
(viii)	IFSC Code	UBIN0550221
(ix)	PAN No.	AAJFP1251D
(x)	GST No.	05AAJFP1251D1ZP

c) Applicable transaction charges will be recovered from the bill amount for each disbursement on LOA raised by unit officers.

d) The 100% payment mentioned above is subject to submission of performance security by the supplier as per clause (4) above.

e) The performance guarantee to be executed in accordance with this specification will be furnished on a stamp paper of value Rs.100/- as per the format indicated in Form-4 of the specification. The Bank Guarantee will be extended if required suitably in accordance with the provisions of Performance Security Clause of the Specification.

f) If the supplier has received any over payments by oversight or if any amounts are due to the TGTransco due to any other reasons, when it is not possible to recover such amounts under the contract resulting out of this specification, TGTransco reserves the right to collect the same from any other amount due to the supplier and / or Bank Guarantees given by the company due to or with TGTransco.

g) When the supplier does not at any time, fulfill his obligations in replacing / rectifying etc. the damaged / defective materials in part or whole promptly to the satisfaction of the TGTransco Officers, TGTransco reserves the right not to accept the bills against subsequent dispatches made by the supplier and only the supplier will be responsible for any demurrages, wharfages or damage occurring to the consignments so dispatched.

h) Any incidental charge such as stamp duty, bank charges etc., shall be to the Supplier's account and any charges in relation there to shall not be included in the bills submitted to TGTransco's Paying Officer through Banks.

i) All payments will be made in non-convertible Indian Rupees.

j) The Bank details as above are final and shall not be revoked under any circumstances.

7. Responsibility of the supplier for Loss/Damage:

(a) The supplier is responsible for the safe delivery of the goods in good condition at the destination. He should acquaint himself of the conditions obtaining for handling and transport of the goods to destination and shall include and provide for security and protective packing of the goods so as to avoid damage in transit.

(b) External damages or shortages that are prima-facie the results of rough handling in transit or due to defective packing will be intimated within a fortnight of the receipt of the materials. Internal defects, damages or shortages of any internal parts which cannot ordinarily be detected on asuperficial visual examination will be intimated subsequently.

In either case, the defective or damaged materials should be replaced by the supplier free of cost to the TGTransco. If no steps are taken within 15 days of receipt of intimation of defects or such other reasonable time as the TGTransco may deem proper to afford, TGTransco may without prejudice to its other rights and remedies cause to be repaired or rectified the defective material or replace the same and recover the

expenditure incurred there for from the deposit such as Earnest Money, Security and Performance or other monies available with TGTransco or by resorting to legal action.

(c) For the purpose of any legal consideration, the material shall be deemed to pass into TGTransco's ownership only at the final destination where they are delivered and accepted.

8. Penalty for Late Delivery:

a) The delivery period as per agreed delivery schedule shall be deemed to be the essence of the contract. In case of delay in delivery of materials beyond the agreed delivery schedule or to perform the services within the period specified in the contract whatever be the reason the TGTransco may at its option, demand and recover from the supplier from the contract price, as liquidated damages, a sum equivalent to 0.5% per week on the undelivered portion subject to a maximum of 5% of total value of contract.

b) For penalty, the number of days of delay would be rounded off to the nearest week and penalty calculated accordingly.

c) Equipment which is not of acceptable quality (or) not confirming to specification would be deemed to be not delivered.

d) The penalty specified will be levied and would be adjusted against subsequent pending bills.

e) The check measurement date in Form-13 i.e., the date of receipt of equipment at the destination stores in good condition will be taken as date of delivery.

9. Force Majeure:

a) The Supplier will not be liable for forfeiture of its performance security, penalty for late delivery or termination for default if and to the extent that it's delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

b) For the purpose of this clause 'Force Majeure' means an event beyond the control of the Supplier and not involving the Suppliers' fault or negligence and not foreseeable. Such events may include but are not restricted to wars or revolutions, fires, floods, epidemics, earth quakes, Tsunami, quarantine restrictions and freight embargoes.

c) If the Force Majeure situation arises, the supplier will promptly notify the Purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier will continue to perform its obligations under the Contract as far as is reasonably possible, and will seek all reasonable alternative means for performance not prevented by the Force Majeure event.

10. Termination for Default:

(a) The Purchaser without prejudice to any other remedy for breach of Contract, by written notices of default sent to the Supplier, may terminate this Contract in whole or part :

i) If the Supplier fails to deliver any or all of the Materials/equipment within the period(s) specified in the Contract, or within any extension thereof granted by the Purchaser.

ii) If the Supplier fails to perform any other obligation(s) under the Contract.

iii) If the Supplier, in the judgment of the Purchaser has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.

(b) In the event the Purchaser terminates the Contract in whole or in part, the Purchaser may procure, upon such terms and in such manner, as it deems appropriate, Materials/equipment or services similar to those undelivered and the Supplier will be liable to the Purchaser for any excess costs for such similar Materials/equipment or Services. However, the Supplier will continue performance of the Contract to the extent not terminated.

11. Termination for convenience:

(i) The Purchaser, by written notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination will specify the termination is for the Purchaser's convenience, the extent to which performance of the supplier under the Contract is terminated, and date upon which termination becomes effective.

(ii) However the Materials / equipment that are complete and ready for shipment within thirty (30) days after the supplier's receipt of notice of termination will be accepted by the Purchaser at the Contract terms and prices.

12. Warranty:

The equipment offered shall be guaranteed for satisfactory performance for a period of 60 months from the date of satisfactory commissioning. The equipment found defective/failed within the above guarantee period shall be replaced/re-paired by you free of cost within one month of receipt of intimation. Transportation of failed /defective Current Transformer to the manufacturer’s works shall be arranged by you & the cost for the same shall be borne by you. If the defective/failed equipment are not replaced/repaired as per the above guarantee clause, TGTRANSCO shall recover an equivalent amount plus 15% supervision charges from any of your bills.

13. Taxes:

Taxes as indicated in the price schedule at para (2) are applicable. You shall agree, that if, at any time, any GST reported to have been paid has not been paid, or a lesser amount has

been paid, or on subsequent adjudication or appeal or revision it is decided that a lesser amount is payable, you shall refund such amounts irrespective of time lag.

14. Statutory Variations:

Any variation up or down in statutory levy or new levies introduced after tender calling date this specification will be to the account of TGTransco, provided that in cases where delivery schedule is not adhered to by the supplier and there are upward variation/ revision after the agreed delivered date, the supplier will bear the impact of such levies and if there is downward variation / revision the TGTransco will be given credit to that extent.

Statutory variation if any allowed, it is allowed only once during delivery period, i.e. at the time of delivery of goods at factory. In case of sub-vendor items, taxes & duties are inclusive in tender price and no statutory variation is applicable.

In cases where the bidder assumes less tax rates and become lowest, upward variation of taxes will not be considered. In case of the bought out items for which the prices are quoted all-inclusive of taxes, statutory variation shall not be applicable.

15. Dispatch Instructions:

The dispatch instructions for the equipment will be issued after inspection/satisfactory routine/acceptance tests results. The prices indicated in clause (2) above shall remain unaltered whatever be the destination.

16. Inspection:

After completion of manufacture of the equipment/ material, routine tests shall be performed as per relevant standards and requisite copies of test certificates shall be furnished to the purchaser. Various components of the equipment shall be routine tested in accordance with approved standards and manufacture standards.

As soon as the material/ equipment are ready the supplier will duly send intimation to TGTransco by post/fax and carry out the tests in the presence of the representative of TGTransco. The Supplier shall give at least 15 days advance intimation to enable the Purchaser to depute his representative for witnessing acceptance and routine tests. All charges in connection with inspection shall be borne by the supplier.

The equipment should not be dispatched without final inspection of the tests, approval of test certificates and issue of specific dispatch instructions or specific waiver thereof from this office. The equipment shall reach the destination store/site within three weeks of issue of Dispatch Instructions.

17. Contract Drawings:

Approval by TGTransco to the supplier's drawings shall not relieve the supplier of his responsibility for correctness thereof or from results arising out of error or omission therein

or from any obligation or liability under the contract. Any supplementary drawings necessary to permit the complete design of the installation prior to receiving the equipment shall also be supplied. Within two weeks of approval, six sets of all approved drawings and soft copy of drawings shall be furnished. One set of drawings and instruction manuals along with soft copy shall be sent along with each equipment at the time of dispatch. Copies of the drawings and manuals shall also be sent to other offices as indicated below.

Consignee	:	One set of approved drawings per consignee
Two Sets	:	Concerned Executive Engineer
To this office	:	Three sets.

18. Erection, Operation & Maintenance Manuals:

Erection, operation and maintenance manuals along with soft copy shall be supplied as per distributions given below giving detailed instructions with illustrations along with the equipment. They shall contain clear recommended schedule of maintenance for the guidance of the operating staff. Any items requiring the special attention of the operation engineer should be highlighted.

Consignee	:	One set per consignment
Concerned Executive Engineer	:	Two sets
To this office	:	One set

These shall be sent to the Divisional Engineers / Executive Engineers concerned.

19. Completeness of Contract:

All minor accessories that are normally necessary for satisfactory and efficient operation of the equipment shall be supplied by you free of cost to the TGTransco whether these are specifically mentioned or not in the specification, your tender schedules or in this purchase order and the equipment shall be complete in itself.

20. General Conditions of Contract:

Except in so far as it is provided otherwise in this contract, you shall abide by the terms and conditions appended to the specification. Except as specifically accepted in this order the terms and conditions mentioned in your quotation under reference are not accepted.

21. Risk:

The risk in the property is entirely yours till the goods are received in good condition at the destination.

22. Packing:

Each equipment shall be securely packed separately in such a manner as to withstand rough handling during rail and road transit upto site and as per latest IS/BSS/IEC.

23. Material & Workmanship:

All the materials shall be of the best class and shall be capable of satisfactory operation in the tropics under service conditions without distortion or deterioration. No welding or filling or plugging of defective parts shall be permitted, unless otherwise specified they shall conform to the requirement of the appropriate Indian, British or American standards (wherea standard specification covering the material in question has not been published the standards of the American society for testing of materials should be followed).

The entire design and construction shall be capable of withstanding the several stresses likely to occur in actual services and of resisting rough handling during transport.

24. Insurance:

As insurance charges are included in your prices you should cover the equipment against transit risks and also for further period of 45 days towards storage from the date of receipt of equipment at site. It is entirely your responsibility for arranging the insurance through your underwriters. The damages and shortages will be intimated to you as stipulated in purchase order and you shall arrange for replacement/repairs immediately without awaiting settlement from insurance authorities.

Note: The material will not be taken into stock unless documentary evidence for Freight and Insurance is furnished along with material.

25. Interchangeability:

All similar equipment and removable parts of similar equipment shall be interchangeable with each other.

26. Spares:

You shall supply any spares required for the equipment that will be supplied under this order, whenever called upon to do so at fair prices and at the TGTransco's standard terms of payment within a period not exceeding the deliveries accepted therein.

27. Progress Reports:

You shall furnish the program of works and progress reports on the manufacture of equipment to this office every month in triplicate till the supplies are completed.

28. Correspondence:

a) Your acknowledgement of this order and all correspondence of general or technical nature shall be addressed to the Chief Engineer/P&MM, TGTransco, Vidyut Soudha, Hyderabad –500 082.

b) All correspondence regarding dispatches, payments and any other field matters shall be addressed to the concerned paying officer. Copies of such correspondence shall be marked to the concerned Superintending Engineer and to the Chief Engineer/P&MM,

TGTransco, Vidyut Soudha, Hyderabad –500 082. Copies of the correspondence regarding payments should also be marked to the Executive Director/Finance, TGTransco, Vidyut Soudha, Hyderabad –500 082.

c) You shall submit e-invoices for materials directly to the paying officer.

29. Jurisdiction:

All and any disputes or differences arising out of or touching this order shall be decided only by courts or tribunals situated in Hyderabad orSecunderabad cities. No suit or other legal proceedings shall be instituted elsewhere.

30. Supervision of erection, testing and commissioning:

You have to provide services of qualified personnel for supervision of erection, testing at site and commissioning of the equipment wherever required. The above services, if requested for, should be provided at free of Cost.

31. Acknowledgement:

Please acknowledge the receipt of this purchase order with your confirmation of its acceptance by you and the extra copy enclosed may please be returned with your signature in token of your acceptance.

Encl: GTP.

Yours faithfully,

Chief Engineer/P&MM
(Acting for and on behalf of TGTRANSCO)

WE ACCEPT THE TERMS AND CONDITIONS OF THIS PURCHASE ORDER

SIGNATURE OF THE CONTRACTOR
WITH SEAL AND DATE

Copies to:
The FA & CCA (A/cs) & CFO/TGTRANSCO /Vidyut Soudha/Hyderabad.
The Chief Engineer/Transmission/TGTransco/Vidyut Soudha/Hyderabad.*
The Superintending Engineer/Transmission/TGTransco/Vidyut Soudha/Hyderabad.
The Superintending Engineer/OMC/Metro-Central/TGTransco/2nd Floor,132kV NIMS GIS SS premises/Erramanzil/Panjagutta/Hyderabad -82
The Superintending Engineer/Quality Control/ Vidyut Soudha/Hyderabad.
The SAO/Pay & accounts/TGTransco/Vidyut Soudha/Hyderabad along with Form-40.
The SAO/Metro-Central/TGTransco/2nd Floor, 132kV NIMS GIS SS premises/Erramanzil/ Panjagutta/Hyderabad -82.
The Divisional Engineer/Transmission & Stores/Metro/Erragadda/Hyderabad-500 045.
The AEE/Construction Stores/TGTransco/Erragadda/Hyderabad.

* Copy of this PO is available on http://www.tgtransco.com/

Annexure
GUARANTEED TECHNICAL PARTICULARS

Sl. No.	Description	M/s. Perfect Sales Corporation, Rudrapur.
1	Type of Tank/Installation/Sealing:	Single phase live tank, oil filled hermetically sealed and outdoor type.
2	Type of mounting	Pedestal Type
3	Manufacturer's Name and address and Country	Perfect Sales Corporation, Rudrapur.
4	Conforming to standard	IS 16227/ IEC61869 Part 1 & 2
5 a) i)	Primary and Secondary winding made out of (To be mentioned by the manufacturer as per design)	Primary: Paper covered Cu. Wire Secondary: Polyvinyl Acetate Type Cu. Wire
ii)	Primary windings: Design density for short circuit current Conductivity of metal used (To be mentioned by the manufacturer as per design)	Approx 16 A/Sq. mm Copper conductivity: 97% Min
iii)	Copper conductor current carrying capacity. (Amp/Sq.mm)	1.01A/Sq.mm Approx.
b) i)	Area of cross section of primary winding to cater the guaranteed short time as well as continuous thermal current rating and detailed calculation for selection of winding cross section. (To be mentioned by the manufacturer as per design)	Cont. Thermal Current -2400A 2400/1.6 - 1500 mm2 Approx. STC: 31.5kA for 1.0 Sec 31500/16 - 1968 mm2 Approx.
ii)	Primary winding turns	1 Turn (single copper rod)
iii)	Area of cross section of secondary winding and no of turns for protection and metering (To be mentioned by the manufacturer as per design)	0.81 mm2 TS: 0-400-600-1000-2000T
c)	Material used for providing secondary terminals (To be mentioned by the manufacturer as per design)	Brass M6
6	Rated primary voltage (kV rms)	33
7	Rated highest voltage (kV rms) Um of the system	36
8	Rated frequency (Hz)	50
9	Rated primary current (A)	2000-1000-600-400
10	Rated secondary current (A)	1A
11	Ratio taps (on secondary side only)	on secondary side
12	Class of insulation	Class A
i)	Primary winding	Class A
ii)	Secondary Winding	Class H
13	Seismic acceleration Horizontal (g)	0.3 g

Sl. No.	Description	M/s. Perfect Sales Corporation, Rudrapur.		
14	Tank details			
i)	Material	Mild Steel		
ii)	Coating	Hot Dip Galvanizing		
iii)	Thickness	3mm		
15	Dielectric withstand values of external & internal insulation (for each type)	70kV rms/170 kVp		
16 a)	Clamps and connectors made of and confirming to standard	Aluminium Alloy IS:5561 & NEMA CC1		
b)	Clamps and connectors make	Reputed make		
17	Lugs material used for terminations	Aluminium		
18	Hardware exposed to atmosphere, all other bolts & Nuts and washers	SS		
19	Porcelain housing and its make (Modern, CJI, IEC, ABI, Ravikiran)	CJI, Modern, ABI, IEC and Ravikiran		
20	Sealing & Pressure	Hermetic sealing & Pressure as per IS		
21	Instrument security factor	< 5		
22	Whether test tap provided	No		
23	Guaranteed temperature rise	50 C above ambient temperature		
24	Acceptable partial discharge level			
i)	at 1.2 x Um/Root3	< 5 PC		
ii)	at Um	< 10 PC		
25	Rated short time withstand current & duration (kA rms) I_{Sc}	31.5 kA for 1 sec		
26	Rated dynamic withstand current (kAp) I_{Dy}	78.75 kAp		
27	Rated continuous thermal current	120% of primary current		
28	Rated extended primary current	120% of primary current		
29	1.2/50 micro-second impulse withstand voltage (kVp)	170 kVP		
30	One minute power frequency withstand voltage (kV rms) of primary winding (Dry & Wet)	70 kV		
31	One minute power frequency withstand voltage of secondary winding (kV rms) (Dry & Wet)	3 kV(rms)		
32	Minimum total creepage distance of insulator bushing (mm) 25mm/kV or as per requirement)	900mm		
33	Details of Cores	Core-I (Diff)	Core-II (OL & EF Prot)	Core-III (Metering)
	Current Ratios A/A	2000-1000-600-400/1	2000-1000-600-400/1	2000-1000-600-400/1
ii)	Output burden (VA)	NA	20VA	10VA
iii)	Class of accuracy	PX	5P	0.2S

Sl. No.	Description	M/s. Perfect Sales Corporation, Rudrapur.		
iv)	Accuracy limit factor		20	<5
v)	Min. knee point voltage (kpV)	500V @2000/1 250V@1000/1 150V@600/1 100V@400/1	-	-
vi)	Max CT Secondary Wdg resistance (corrected to 75° C)	10Ω @2000/1 5Ω @1000/1 3Ω @600/1 2Ω @400/1	-	-
vii)	Max. exciting current at 100% of Knee point voltage	16.5mA @2000/1 33mA@1000/1 55mA@600/1 82.5mA@400/1	-	-
viii)	Application	Protection	Protection	Metering
ix)	Core material used			
	a) for Protection core	CRGO		
	b) for Metering core	Nano Crystallin		
vii)	Area of cross section of core	950mm²	3500mm²	375mm²
viii)	Flux density at rated primary current and rated burden.	1.5T		
ix)	Secondary winding gauge	21 SWG		
34	Insulating oil			
i)	Type (Paraffinic/Napthenic)	Napthenic		
ii)	Standard	IS 335		
iii)	Qty. (in Litres or Kg.) (To be mentioned by the manufacturer as per design)	20 Ltrs ± 10%		
35	Total Weight (Kg.) (To be mentioned by the manufacturer as per design)	105 Kgs ± 10%		
36	Overall dimensions (To be mentioned by the manufacturer as per design)	1250mm x560mm x 420mm (Approx)		
37	Magnetization curves whether enclosed:	Yes		
38 a)	Whether all seals are of "O" ring type	Yes		
b)	O" ring make	Nu-cork, Anil Rubber/NBR/5mm		
39	Whether all "O" Rings are fixed in machined grooves with adequate space for compression	Yes		
40	Whether the main hollow insulator has the cost iron flanges cemented at both ends	Yes		
41	Month & Year of Type Tests Conducted	10.01.2022		
42	Details of mettalic bellows (Make, Material, Applicable standard)	Reputed make SS Bellows		
43	Mounting Details	350mm X 350mm		

Chief Engineer/P&MM