



**OFFICE OF THE CHIEF EXECUTIVE OFFICER,
SHRI MATA VAISHNO DEVI SHRINE BOARD,
Central Office, Jammu Road, Katra (J&K) – 182301
E-mail: aceovb@maavaishnodevi.net, purchase_sec@maavaishnodevi.net**

Notice Inviting e-Tender

e-NIT No. CO/Pur/Elect/269-X/1537 Dated: 18.09.2025

For and on behalf of the Chairman, Shri Mata Vaishno Devi Shrine Board, e.bids are invited through Chief Executive Officer, Shri Mata Vaishno Devi Shrine Board, Katra (herein after referred as SMVDSB, Katra) from the reputed manufacturers / distributors / dealers only for **Supply of Distribution Transformers 630 KVA capacity** as under:-

S. No.	Description of items	Qty. (Nos)	Tender Fee (non-refundable)	Amount of EMD (Rs.)	Estimated cost. (in Rs.)
1.	Distribution Transformers 630 KVA having specifications as per Annexure "E" of the bid document	02	Rs. 1500.00	54,000.00	27,00,000.00

The e-NIT consisting of Qualifying Information, Eligibility Criteria, Specifications, Bill of Quantities, (B.O.Q), set of Terms & Conditions of e-NIT and other details can be seen / downloaded from the website:- <http://jktenders.gov.in> & on SMVDSB website www.maavaishnodevi.org as per following schedule:-

Date of Publishing of e.NIT	18.09.2025 at 12:00PM
Download Start Date	18.09.2025 from 12:00PM onwards
Bid Submission Start Date	18.09.2025 from 12:00PM onwards
Bid submission End Date (Online)	03.10.2025 upto 03:00PM
Date of Opening of Technical Bid (Online)	04.10.2025 at 03:00PM
Date of Opening of Financial Bid (Online)	Shall be intimated to the technically qualified bidders.

The Bids shall be deposited in Electronic Format on the e-tender portal i.e. www.jktenders.gov.in and should be submitted strictly in accordance with the provisions of the detailed e.NIT. Complete bidding process will be done online on e-tender portal www.jktenders.gov.in only.

However, the Bid document is also available on the official website of SMVDSB i.e. www.maavaishnodevi.org for reference purpose only.

- I. Non Refundable Tender Fee of Rs. 1500/- (Rupees One Thousand Five Hundred Only) shall be deposited in the official account of Shri Mata Vaishno Devi Shrine Board Branch J&K Bank Katra, Account No. 0235040500001804, IFSC – JAKA0KATTRA (“0” Zero) and shall also upload the scanned copy of the same along with other prescribed documents without which the tender/offer shall be rejected outrightly.
- II. The Earnest Money Deposit in the form of CDR/FDR amounting to Rs. 54,000/- (Rupees Fifty Four Thousand only) drawn from any Nationalized / scheduled Bank must accompany the e-tender document **or** the amount of EMD can be deposited in the official account of Shri Mata Vaishno Devi Shrine Board Branch J&K Bank Katra, Account No. 0235040500001804, IFSC– JAKA0KATTRA (“0” Zero). The tenderer shall have to upload the scanned copy of the same along with other prescribed documents without which the tender/offer shall be rejected outrightly.
- III. No Proposal shall be submitted to SMVDSB in physical form unless and until the same is uploaded on the e-tendering website. The Hardcopies of the Bid documents (**except the Financial Bid**) shall be deposited via Registered Post **or** Speed Post **or** Courier **or** By Hand in the office of Chief Executive Officer, Shri Mata Devi Shrine Board, Central Office, Katra – 182301 before the opening of the technical bid **i.e. 04.10.2025 upto 03:00PM** without which the offer submitted by the firm shall not be considered. SMVDSB is not responsible any postal delay whatsoever.

Note: Read all the Terms and Condition mentioned in the e-NIT carefully before the submission of the bid. No claim shall be entertained after the opening of Bid (Technical as well as Financial).

Sd/-
(Vipan Bhagat, JKAS)
Asstt. Chief Executive Officer
S. M. V. D. Shrine Board, Katra

No: CO/Pur/Elect/269-X/1537
Dated: 18.09.2025

Instruction to bidders regarding e-tendering process:-

1. The interested bidder can download the NIT/bidding document from the website **www.jktenders.gov.in** and **www.maavaishnodevi.org**.
2. Before starting the bidding process, bidders are advised to carefully read the Instructions, Terms and Conditions mentioned in the bid Document online on e-tendering portal i.e. **www.jktenders.gov.in**.
3. The bidders, in their own interest, are requested not to wait till the last moment for submission of bid to avoid last minute rush and local problems related to internet connectivity, law and order, strike, closure of establishments etc. The SMVDSB shall not be responsible, if bids could not be uploaded due to such problems at the bidders' end.
4. The bidders must possess valid Digital Signature Certificate (DSC) issued from any agency authorized by Controller of Certifying Authority (CCA), Govt. of India and which can be traced up to the chain of trust to the Root Certificate of CCA. Bidders can get above mentioned digital certificate from any approved vendors.
5. The Bidders, who already possess valid (DSC) Digital Signature Certificates, need not to procure new Digital Signature Certificate.
6. The offer should be submitted (uploaded) strictly as per the terms and conditions and procedures laid down in the website failing which the offer is liable for rejection. Bidders should download the complete e-NIT including the Annexure and read carefully before filling the details and uploading the documents.
7. The offers with any deviations to the e-NIT's Terms and conditions shall be liable for rejection.
8. The Technical Bids shall be opened online.
9. Only Financial Bids of technically qualified bidders shall be opened online.
10. The bidders have to submit their bids online in electronic format with Digital Signature. The bids cannot be uploaded without Digital Signature. No Proposal will be accepted in physical form.
11. Bids will be opened online as per time schedule mentioned in the e-NIT.
12. Before submission of online bids, bidders must ensure that scanned copies of all the necessary documents have been attached with bid.
13. SMVDSB will not be responsible for delay in online submission of bids whatsoever reasons may be.
14. All the required information for bid must be filled and submitted online.
15. The details of cost of documents, EMD specified in the tender documents should be the same, as submitted online (scanned copies) otherwise bid will not be accepted.
16. Bidders are advised to use "My Documents" area in their user on **<http://jktenders.gov.in>**, e-tendering portal to store important documents like Balance sheet, GST Registration Certificate, Tax Clearance Certificate, IT certificate, Manufactures authorization and other related documents etc., and attach these certificates as Non-Statutory documents while submitting their bids.
17. Bidders are advised not to make any change in BOQ (Bill of Quantities) contents or its name. In no case they should attempt to create similar BOQ manually. The BOQ downloaded should be used for filling the item rate as prescribed and it should be saved with the same as it contains.

18. Bidders are advised to scan their documents at 100 DPI (Dots per Inch) resolutions with Black and White, PDF \ Scan properly.
19. The guidelines for submission of bid online can be downloaded from the website **<http://www.jktenders.gov.in>**. and **www.maavaishnodevi.org**.
20. SMVDSB shall not be held responsible for selection criteria/policy matter being adopted by the Directorate of Information regarding publishing the e-NIT, in any of the newspaper under circulation.
21. The tenderer should carefully study the document and prepare his tender with consideration of all provisions of the document. He should fully acquaint himself with site conditions and all other factors which may influence preparation of his tender.

Sd/-

(Vipan Bhagat, JKAS)

Asstt. Chief Executive Officer
S. M. V. D. Shrine Board, Katra



Notice Inviting e-Tender

e-NIT No. CO/Pur/Elect/269-X/1537 Dated: 18.09.2025

Subject: e.Bids are invited from reputed manufacturers / distributors / dealers only for **Supply of Distribution Transformers of 630 KVA capacity** as per the requirement of SMVDSB.

1. REQUIREMENT:

e.Bids are invited from reputed manufacturers / distributors / dealers only for **Supply of Distribution Transformers of 630 KVA capacity** as per the requirement of SMVDSB, mentioned in e-NIT.

2. TENDER SCHEDULE:

Date of Publishing of e.NIT	18.09.2025 at 12:00 Noon
Download Start Date	18.09.2025 _ from 12:00 Noon onwards
Bid Submission Start Date	18.09.2025 from 12:00 Noon onwards
Bid submission End Date (Online)	03.10.2025 upto 03:00PM
Opening of Technical Bid (Online)	04.10.2025 at 03:00PM
Opening of Financial Bid (Online)	Shall be intimated to the technically qualified bidders.

- In case of holiday the bids will be opened on the next working day. Further the price bids of only those tenderers shall be opened who qualify for the same after scrutiny of the documents in technical bid which shall be notified separately.
- The e-NIT is also available on SMVDSB website **www.maavaishnodevi.net** for reference only.
- SMVDSB will not be responsible for any delay in online submission of the bid due to any reason (Technical or otherwise).
- Bidders must ensure to upload scanned copies of all necessary documents i.e., PAN, GSTIN, Tender Fee, EMD (CDR/FDR), Registration, Income Tax Returns, BIS / IS Certificate and other relevant document mentioned in the e.NIT.

3. PROCEDURE FOR SUBMISSION OF TENDER:

The Tenderers are required to submit their e-Bids under two bid system with Cover-I (Technical Bid) and Cover-II (Price Bid).

A. Technical Bid

- i) **Tender Fee:-** Non Refundable Tender Fee of Rs. 1500/- (Rupees One Thousand Five Hundred Only) transferred in the official account of SMVDSB Account No. 0235040500001804, IFSC – JAKA0KATTRA (“0” Zero) without which the tender/offer shall be rejected outrightly. In case of NEFT transfer, the bidder shall mention UTR No. in the prescribed Technical/ Financial Bid Form at **Annexure-‘A’**.
- ii) **Earnest Money Deposit:-**The Earnest Money Deposit in the form of CDR / FDR pledged to FA/Chief Accounts Officer, SMVDSB, Katra amounting to **Rs. 54,000/- (Rupees Fifty Four Thousand only)** from any Nationalized / Scheduled Bank having validity of 06 months or through NEFT which shall be deposited in the official account of SMVDSB Account No. 0235040500001804, IFSC – JAKA0KATTRA (“0” Zero) without which the tender/offer shall be rejected outrightly. In case of NEFT transfer, the bidder shall mention UTR No. in the prescribed Technical/ Financial Bid Form at **Annexure-‘A’**.
- iii) The copy of tender fees and EMD deposited shall be uploaded alongwith Technical Bid Documents on e-tendering portal without which the offer submitted by the participating bidder shall not be considered. In case of CDR/FDR, the hard copies shall be deposited in the office of SMVDSB before the opening of Online Technical Bid without which the offer submitted online shall not be considered.
- iv) **GST Registration Certificate & PAN:** - Self attested copy of GST Registration Certificate and PAN to be attached.
- v) **Experience / Past Performance:-** The Bidder must have, for at least **three years** ending 31st March of the previous financial year (i.e. 2024-25), regularly manufactured and / or supplied the material specified in the e-NIT, with the same or higher specifications as per **Annexure – A** (supply orders to be attached.)
- vi) **Capability, Equipment & Manufacturing Facilities:-**The bidder must have an annual capacity to either manufacture or supply atleast the estimated quantity (**self certificate to be attached**).

B) Financial Standing under all conditions:-

- I. The Net Worth of the Bidder should not be negative on 31st March during last one year.
- II. Self attested copy of the Manufacturing Unit Registration Certificate / Distributor / Dealer Certificate.
- III. Copy of Audited Balance Sheets alongwith Trading and Profit & Loss Account Statement of last financial year.
- IV. Annual turnover of the bidder should be **Rs.16.20 lakhs**. The turnover of the sister concern firms / subsidiaries shall not be considered.
- V. BIS / IS / ISO Certification of the material manufactured / to be supplied.
- VI. Self Declaration Certificate w.r.t. the manufacturing capacity of the Manufacturer / Authorized supplier.
- VII. Copy of Income Tax Return.

VIII. **Declaration Certificate**:-Declaration Certificate that no case is pending with the police / court against the bidder / firm / company /Agency and not been suspended / blacklisted by any PSU / Government Department / Financial Institution / Court etc (as per **Annexure- “B”**)

IX. Submission of Signed and Stamped documents:- The bidder shall submit duly signed and stamped tender Document conforming the acceptance of Terms and Condition mentioned in the e-NIT.

X. **No Deviation Certificate** :- The bidder shall submit No Deviation Certificate as per format enclosed at **Annexure – C**.

XI. Bidder's details as per **Annexure – D**.

Note: Scanned Copies of all the Technical Bid documents have to be uploaded online without which the offer submitted by the firm shall not be considered.

C) Financial Bid (BoQ):

- i) Price bid shall be as per **BOQ** and has to be submitted **online only**. Submission of the Hard copy of the same tantamount to rejection of the bid submitted online.
- ii) The price bid should be absolute and unconditional.
- iii) Conditional bids shall be rejected.
- iv) The price bid shall be opened in respect of the bidders who have qualified in the technical bid. Rates are required to be quoted strictly as per prescribed BOQ/item of works.

4. Submission of Bids:

All the prospective bidders shall have to upload all the technical documents and financial offers on e-Tendering portal i.e. www.jktenders.gov.in. as per the schedule mentioned in the e-NIT. The bidders have to submit hardcopies of the uploaded technical bid documents by or before the due date. Submission of Hard copy of financial bid may leads to cancellation of the bid submitted online by the bidder. No claim/ query shall be entertained after opening of the online bid (Technical as well as Financial).

5. Rates:-

- i. The Rates should be quoted at the prevailing GST Rate without which the bid shall be rejected.
- ii. The rates quoted must be F.O.R. Engineering Store, Banganga, Katra inclusive of GST, levies/discounts & other taxes.
- iii. The successful bidder shall have to mention the GST No. 01AAETS9822J1ZC of Shri Mata Vaishno Devi Shrine Board Katra while raising their bill of supplies. While filing GSTR-I, the successful bidder shall classify the supply / Service made to Shrine Board under Business (B to B) Sales. The successful bidder shall also mention six digit HSN code of the material to be supplied. In case the successful bidder doesn't upload / mention the bill under B to B, the GST amount levied in the Bill shall not be paid.
- iv. The successful bidder shall file GSTR 1 and 3B within the due dates prescribed under the CGST / SGST Act 2017 so as to enable SMVDSB to claim timely input credit. In case of default, interest @2% per-month of tax amount shall be charged and recovered from the defaulting supplier.

- v. "In case the successful bidder is filling GST returns on quarterly basis he must file the Invoice Furnishing Facility (IFF) on monthly basis for Bills to Shrine Board".
- vi. No escalation in the basic rate of item shall be allowed by SMVDSB during currency of Contract. If the rate of GST is increased/ decreased or a new tax is introduced or an existing tax is abolished or any change in interpretation or application of any tax occurs in the course of performance/evaluation of contract, which was or will be assessed on the bidder in connection with the performance of the contract, an equitable adjustment of the contract price shall be made to fully take into account any such change by addition to the contract price or deduction there from as the case may be. However no escalation in the basic cost of the item shall be allowed during the currency of the contract.
- vii. If at any time it is established that successful tenderer has sold the items to any other Government /Semi-Government/ Private Hospitals/department/ Institutions at a lesser price, he shall be liable for reimbursement of the excess rates charged besides imposition of penalty. Also in case the printed rates are lower than quoted rates, then printed rates shall be payable.

6 RIGHT RESERVED BY SMVDSB

- a) The Shrine Board reserves the right to reject, accept or prefer any tender in part or full at any stage if not in conformity to the specifications, terms & conditions mentioned in the e-NIT. Shrine Board also reserves the right to re-invite the tender at its sole discretion.
- b) The Shrine Board reserve the right to negotiate the quoted rates, terms and conditions with the lowest tenderer or any of the other tenderers on quality basis to ascertain the suitability of the acceptable offer.
- c) The Competent authority of SMVDB reserves the right to:-
 - a) To cancel/ terminate the e-NIT / Purchase Order during the period of its validity without assigning any reason thereof.
 - b) To forfeit the CDR/FDR of defaulter supplier.
 - c) Debarring any defaulter from any further dealing with Shrine Board.
 - d) Grant of extension with or without imposing penalty, as deemed fit

7. SIGNING OF TENDERS:

Each page of the tender (Technical bid) which is to be submitted in physical form tenderer / authorized signatory of the company / firm conforming the acceptance of the Terms and Conditions as laid down in the e.NIT document.

8. VALIDITY:

The offer shall remain valid and open for acceptance for a period of **90 days** from the date of opening of tenders, if the tenderer withdraws his tender before the expiry of the said period or makes any modifications in the terms and conditions of the tender, the earnest money/security deposited by the tenderer shall be forfeited without any notice.

9. PAYMENT:

- a. No advance payment shall be made
- b. 90% of the sum shall be paid after delivery of complete material at site.
- c. Balance 10% shall be released after completion of Defect Liability Period (DLP) of 24 months, subject to certification of the Engineering Incharge, SMVDSB.

10. DELIVERY PERIOD:

The successful tenderer shall have to deliver the material within the time period mentioned in the purchase order. The material shall be supplied immediately from ready stock from the date of placement of purchase order.

11. THIRD PARTY INSPECTION:

The material to be supplied shall be checked / inspected at manufacturer's site by third party inspection agency viz. M/s Certification Engineering International Ltd., CEIL (A wholly owned subsidiary of Engineers India Ltd., a Govt. of India Undertaking) at manufacturer's cost. The firm shall submit testing / inspection report of the Distribution Transformers to Asstt. CEO (VB), SMVDSB, Katra prior to the delivery to ES, Banganga.

12. INSPECTION / LIFTING BACK OF REJECTED SUPPLIES:

- a) The material shall be inspected / checked by our Inspection Committee on receipt of material at Engg. Store, Banganga and if found inferior quality/defective or not as per testing / inspection report furnished by third party, the same will be rejected and the Board shall be at liberty to have the same procured from open market at the risk & cost of the supplier whereby the original supplier shall be liable to pay the extra cost, if any, involved in the process. The Competent Authority, however, may accept the replaced material within the delivery period if it conforms to the approved specifications.
- b) The rejected material shall have to be lifted by the supplier at his own risk and cost within a week's time, failing which storage charges @ 2% per day shall be imposed against the supplier for a period of one week. The penalty amount shall get doubled for each subsequent week and the rejected material in the stores shall be at the risk of the firm. Beyond one month the material shall be auctioned and storage charges shall be recovered from the supplier @2% per day. The amount acquired on account of auctioning shall be deposited to SMVDSB Account.

13. PENALTY:

Following penalties shall be imposed after delay beyond the stipulated delivery period, subject to acceptance by the Competent authority of SMVDSB:-

- a) upto 7 days @ 0.5%
- b) From 8th day to 15th day @ 1%
- c) From 16th day to 22nd day @ 1.5% and
- d) From 23rd day to 30th day @ 2% shall be imposed on each pending item as per the approved rate/quantity mention in the purchase order of the value of the pending supplies.
- e) In case of incomplete supply received, an amount equal to 2% of the total value of non-supplied material shall be deducted from the due payment of the supplier.

14. FORCE MAJEURE:

Any failure or omission to carry out the provisions of the order shall not give rise to any claim by one party against the other, if such failure or omission arises from an "Act of God" which shall include all acts of Natural Calamities such as fire, flood, earthquakes, hurricanes, pandemics or any pestilences or from civil strikes, compliance with any statute or regulations of the Government lock outs and strikes, riots, embargoes or from any other reasons beyond the control of the parties including the war (Whether declared or not) Civil War or State of Insurrection.

15. ARBITRATION / JURISDICTION:

In case of any dispute arising between the parties to this e-tender and all matters connected therewith, both parties shall make every effort to resolve it amicably by direct informal negotiation. If, even after thirty days from the commencement of informal negotiation, the parties have not been able to resolve the dispute amicably, then such disputes / differences shall be resolved by Arbitration as per the Arbitration and Conciliation Act, 1996.

- a) Either party may request other of its intention that a dispute be submitted to Arbitration and both the parties shall meet within 15 days from the date of receipt of such request, to select a sole arbitrator mutually for the resolution of dispute and venue / seat of Arbitration shall be at Jammu /Katra / Reasi.
- b) In the event that the parties cannot agree upon the selection of the sole Arbitrator, either party or both of the parties may move an application before the Hon'ble High Court at Jammu, under the Arbitration and Conciliation Act, 1996, for the appointment of sole Arbitration with seat / venue at Jammu for the resolution of disputes between the parties. However, on failure of resolution of disputes through procedure elaborated above, the Courts at Katra / Reasi alone, shall have the Jurisdiction with respect to subject matter of this e-NIT.

16. Other Terms and Conditions:

- i) The tenderer shall not be entitled to revoke or withdraw their tenders or vary or modify after its submission.
- ii) The Chief Executive Officer / Addl. Chief Executive Officer, SMVDSB, reserves the right to terminate the purchase order during the period of its validity without assigning any reason thereof.
- iii) The tenderers furnishing the EMD for an amount less than the stipulated amount mentioned in the Tender quoting the exemption as Small Scale Industries or any other reason shall not be entertained and the tender shall be out-rightly rejected.
- iv) Conditional, illegible, ambiguous tender(s) received after the stipulated date and time shall be out rightly rejected.
- v) These terms and conditions and any other communication exchanged by the SMVDSB with the Tenderer shall form integral part of the contract with the successful tenderer(s).
- vi) After the successful culmination of tender, if the approved firm(s) refused to comply with the purchase order on account of any reason, the same firm(s) shall be **debarred from further dealing with the Board for a continuous period of 03 years including forfeiture of EMD.**

Sd/-
(Vipan Bhagat, JKAS)
Asstt. Chief Executive Officer,
S.M.V.D. Shrine Board, Katra



**OFFICE OF THE CHIEF EXECUTIVE OFFICER,
SHRI MATA VAISHNO DEVI SHRINE BOARD,
Central Office, Jammu Road, Katra (J&K) – 182301**

E-mail: aceovb@maavaishnodevi.net, purchase_sec@maavaishnodevi.net

Annexure – A

UN-PRICE BID

To,

**The Chief Executive Officer,
Shri Mata Vaishno Devi Shrine Board,
Central Office, Katra.**

Subject: e-NIT for Supply of Distribution Transformer of 630 KVA capacity.

Ref. No: e-NIT No: CO/Pur/Electric/269-X/1537 Dated: 18.09.2025.

Tender Fee detail: _____,

EMD detail : _____

Dear Sir,

I, _____ representative / proprietor of M/s _____ hereby submit the offer for Supply of Distribution Transformer of 400 KVA capacity as per requisite specifications / UOM requirement of Shrine Board.

The offered rates are NET inclusive of GST and other taxes F.O.R Engineering Store, Banganga, Katra are as under:

S.No.	Description of material	Qty. (in No.)	Net rate per Unit inclusive of all Taxes and F.O.R. Engg. Store, Banganga, Katra	Total Amount
1.	Distribution Transformers 630 KVA having specifications as per Annexure “E” of the bid document	02		

I further affirm that I have read and fully understood the tender notice and agree to abide by all terms and conditions laid in the e.NIT, which are being signed in token of my acceptance. In case, I fail to abide-by the conditions or to carry on the contract to the entire satisfaction of the Shrine Board. I will be liable to the penalties under rules mentioned in the terms and conditions.

Signature _____

M/s _____

Contact Person _____

Mobile No. _____

E-mail _____

(ON THE LETTER HEAD OF THE FIRM)

DECLARATION

I / We hereby declare that no case is pending with the police / court against the bidder / firm / company (Agency). Also, I / We have not been suspended / blacklisted by any PSU / Government Department / Financial Institution / Court etc.

Seal and Signature of the bidder

Place:

Date:

(ON THE LETTER HEAD OF THE FIRM)

Ref. No: CO/Pur/Elect/269-X/1537

Dated: 18.09.2025

NO DEVIATION CERTIFICATE

Notwithstanding anything mentioned in our bid, we hereby accept all the terms and conditions mentioned in the e.NIT. We hereby undertake and confirm that we have understood the specifications properly and shall supply the material as mentioned in the e-NIT.

Seal and Signature of the bidder

Place:

Date:

(ON THE LETTER HEAD OF THE FIRM)**BIDDER'S DETAIL**

Name of the Supplier / Party / Firm		
Name of the Authorized Representative		
Mailing Address:		
Phone/Landline No		
Mobile No.		
Fax No.		
E-mail Address		
Website Address (if any)		
Bank details for payment through NEFT / RTGS	Name of the Bank:	
	Branch	
	Account No	
	IFSC Code	
	MICR No	

Note: Submit a cancelled cheque for verification of above bank details.

Seal and Signature of the bidder

Place:

Date:

Technical Specifications for 630 KVA Distribution Transformer

1. **Rated Power:** 630 kVA
2. **Voltage Ratio:** 11/433 KV Indoor/Outdoor
3. **Level:** 1
4. **RATING:**
 - a) Rated Output KVA: 630
 - b) Rated Voltage of HV-KV: 11
 - c) Rated Voltage LV-KV: 433
 - d) No Load Voltage Ratio: 11/433
 - e) Number of Phases: 3
 - f) Rated Frequency: 50HZ
5. **CONNECTION:**
 - a) High Voltage: Delta
 - b) Low Voltage: Star
 - c) Vector Group Symbol: Dyn 11
6. **Method of Cooling:** ONAN
7. **DETAIL OF TANK:**
 - a) Inside Length: 1297 mm
 - b) Inside Breadth: 529 mm
 - c) Inside Height: 1232 mm
 - d) Thickness of Tank: Side: 4.0 mm,
Bottom: 6.0 mm,
Top: 6.0 mm
 - e) Thickness/Size of Radiator: ELEPTICAL TUBE
8. **DETAIL OF CORE:**
 - a) Diameter (Approx.) mm: 206
 - b) Cross Gross area (sq.cm): 32371
 - c) Max. Flux density at rated Voltage & Frequency: 1.69 TESLA
 - d) Material and thickness of lamination (in mm): M4 OR BETTER
 - e) Weight of stamping in core in (KG): 915.52
9. **TAPPING DETAIL:** +5 to 10 @2.5%
10. **H.V. COIL CONSTRUCTION**
 - a) Type of winding: CIRCULAR WINDING
 - b) Conductor used and size: 10.40 x 2.9 c 16
 - c) Number of Coils/ Limb: 1
 - d) Insulation of Conductor: TPC
 - e) Inter Layer reinforcement details: DDP
 - f) Current at full Load (line): 33.07
 - g) End turn insulation: PCB
 - h) No. of turn leg: 1062
 - i) Tapping: OCTC

11. L.V. COIL CONSTRUCTIONS

a)	Type of Winding:	SPIRAL WINDING
b)	Conductor used and size:	6.40 x 2.35 x 1
c)	Number of Coils/ Limb:	1
d)	Insulation of Conductor:	TPC
e)	Internal Layer insulation details:	PCB
f)	Current at full Load:	840
g)	End turn insulations:	PCB
h)	No. of turn leg:	23

12. INSULATION DETAILS:

a)	End Spacing of LV:	PCB
b)	End Spacing of HV:	PCB
c)	LV Winding of Core:	PCB/PAPER
d)	Between HV and LV winding:	PCB/PAPER
e)	Inter phase barrier:	Press board as per specification
f)	End phase barrier:	Press board as per specification

13. DETAIL OF MINIMUM CLEARANCE IN OIL:

a)	Radial clearance of LT winding from core:	3 mm
b)	Angular ducts between LT & HT winding:	11 mm
c)	Horizontal duct between HT Sec. Coils:	11 mm
d)	Clearance of winding from tank:	Non bushing side= 25 mm, bushing side = 40 mm
e)	End clearance of HT Coil from Yoke:	25 mm
f)	Phase to phase (HV to HV):	11 mm

14. No Load Losses (NILL) at rated primary voltage and frequency (Guaranteed value without any positive tolerance) (IN Watts):

750

15. Total full load loss:

5300

16. No Load current at rated Voltage and rated frequency:2% & subjected to
tolerance as per ISS**17. PERCENTAGE IMPEDENCE:**

4.5%