



TRANSMISSION CORPORATION OF TELANGANA LIMITED

Website: www.tgtransco.com GST No. 36AAFCT0166J1Z9 CIN No. U40102TG2014SGC094248

From:
The Chief Engineer,
P&MM, TGTransco,
Vidyut Soudha,
Hyderabad – 500 082.
Tel: 040-23303670
e-mail:ce.pmm@tgtransco.com

To
M/s Insulators & Electricals Company,
(Prop.Hindusthan Urban Infrastructure Ltd.,)
Work, 1-8 New Industrial Area,
Mandideep, Dist-Raisen
(M.P, City : Mandideep -462046.

SAP PO. No: 4500003394/ Web PO No.1057/CE(P&MM)/SE(P&MM)/TGPMM11-11/2025/
F:220KV & 132kV SCIs/D.No.155/2025, Dt:12.01.2026

Sir

Sub: Tender Spec. No. TGPMM11-11/2025 - Supply of 994 Nos. 220kV & 1631Nos. 132kV
Solid Core Insulators - Detailed Purchase Order - Issued – Regarding.

Ref: 1. Your offer on e-platform against Tender Specification No. TGPMM11-11/2025
2. Your Lr.No.IEC/TGTRANSCO/Negotiation Meeting/02/2025-26, dt.08.09.2025
3. LOI Lr. No. CE(P&MM)/SE(P&MM)/DE11/TGPMM11-11/2025/F:SCIs/
D.No.103/2025,Dt:08 .10.2025.
4. Yr.Lr.No.IEC/TGTRANSCO/LOI Acceptance/04/2025-26, dt.25.10.2025
5. T.O.Lr.CE/P&MM/SE/ADE1/D.No.110/2025, dt.23.10.2025
6. Yr.Lr.No.IEC/TGTRANSCO/ LOI Acceptance/05/2025-26, dt.11.11.2025
7. Yr.Lr.No.IEC/TGTRANSCO LOI Acceptance/05/2025-26, dt.10.12.2025
8. Revised LOI Lr. No. CE(P&MM)/SE(P&MM)/DE11/TGPMM11-11/2025/F:SCIs/
D.No.143/2025,Dt:29 .12.2025.
9. LOI Acceptance Lr.No.IEC/TGTRANSCO/LOI/2025-26/05, dt:30.12.2025

I, acting for and on behalf of and by the order and direction of TRANSMISSION CORPORATION OF TELANGANA LIMITED (herein after called the ‘TGTransco), accept Your offer submitted vide reference (7) cited, for supply of 220kV SCIs - 994 Nos. (744 Nos. + addl. qty. 250 Nos.) & 132 kV SCIs – 1631 Nos. (1087 Nos. + addl. qty. 544 Nos.), is hereby accepted detailed in clause(2) below, with the terms and conditions as per the Tender Specification No. TGPMM11-11/2025, set out in this order. This Purchase Order is in confirmation of Letter of Intent issued vide ref (8) cited, accepted by you vide ref (9) cited.

1. SCOPE OF CONTRACT :

This contract relates to the supply of 220KV &132 KV Solid Core Insulators in clause(2) below and covers design, manufacture, testing before dispatch and delivery free at destination substations/ stores (FADS) as detailed in this order.

2. SCHEDULE OF EQUIPMENT & PRICES:

This specification provides for design, engineering, manufacture, inspection and testing at manufacturer's works before dispatch, packing, forwarding and delivery including handling and unloading at destination site/stores of the 220KV &132 kV Solid Core Insulators out door type required for various EHT substations of TGTransco specified as detailed in the Technical Specification.

The price break-up details are as below.

All Financial Figures are in Rs.

Sl. No.	Description	Amount in Rs.	
		220 kV SCIs (HSN Code:8546)	132 kV SCIs (HSN Code:8546)
1	Unit Ex-Works	21,500.00	9,200.00
2	Unit Packing & forwarding	0.00	0.00
3	Unit Freight	1,000.00	450.00
4	Unit Insurance	0.00	0.00
5	Total Taxable Unit price	22,500.00	9,650.00
6	GST 18% on (Ex-Works + Freight + Insurance)	4,050.00	1,737.00
7	Unit FADS Price including Taxes	26,550.00	11,387.00
8	Quantity (Nos.)	994	1631
9	Total Amount	2,63,90,700.00	1,85,72,197.00
Grand Total:			4,49,62,897.00
(Rupees Four Crores Forty Nine Lakhs Sixty Two Thousand Eight Hundred and Ninety Seven Only)			

- a. The above prices is FIRM.
- b. The price is inclusive of all incidental charges such as Packing, Forwarding, Handling, Loading, Unloading and other incidentals.
- c. Freight & Insurance will be reimbursed on submission of documentary proofs only.
- d. The dispatch of equipment is by road only. The transit insurance shall be at least for an amount equal to 100% of the cost of the goods and include storage cover for 45 days at stores/site.
- e. It is to note that the prices are with the present rate of IGST @ 18% on the total of Ex-Works, Freight and Insurance.
- f. TCS at prevailing rates is applicable on any payment made, 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.

- g. The PAN No. of TG TRANSCO is AAFCT0166J.
- h. The TGTransco shall have the right to vary the ordered quantity by ±50% at any time during the execution of the order.
- i. If any payment is made erroneously, TGTransco reserves the right to recover the same from your future bills/BGs.
- j. The supervision of erection of the above equipment at substation site shall be done free of cost.

3. DELIVERY:

220 kV SCIs – Qty:994 Nos.
248 Nos.- within 3 months from date of revised LOI
248 Nos.- within 6 months from date of revised LOI
248 Nos.- within 9 months from date of revised LOI
250 Nos.- within 11 months from date of revised LOI

132 kV SCIs – Qty:1631 Nos.
363 Nos.- within 3 months from date of revised LOI
363 Nos.- within 6 months from date of revised LOI
363 Nos.- within 9 months from date of revised LOI
542 Nos.- within 11 months from date of revised LOI

4. PERFORMANCE SECURITY:

Performance Security shall be furnished in the name of TGTransco for an amount of 10% of the contract value i.e. Rs. 44,96,290.00 (Rupees Forty Four Lakhs Ninety Six Thousand Two Hundred and Ninety Only) for proper fulfillment of the contract, which will include the warranty period and completion of performance obligations including Warranty obligations. The Performance security will cover 60 days beyond the date of completion of performance obligations including Warranty obligations.

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. The proceeds of the performance security will be payable to the Purchaser as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.

The performance security will be...

- (a) A Bank Guarantee issued by State Bank of India or its associate Banks/ Nationalised Banks acceptable to the Purchaser, in the form provided in the bidding documents.
- (b) A banker's cheque or crossed DD or Pay Order payable at the head quarter of the Purchaser in favour of the Pay officer drawn on any scheduled Bank.

It is entirely your responsibility to extend the validity of this Bank Guarantee to cover the period of guarantee well before its expiry.

5. PAYMENT:

100% payment will be arranged through PFC/REC/Banks/TGTRANSO/Bulk Load funds within 45 days reckoned from the check-measurement date in Form-13.

For payment through Real Time Gross Settlement (RTGS) the details of Bank Account of M/s. Insulators & Electricals Company, (Prop. Hindusthan Urban Infrastructure Ltd.), are as below.

i)	Name of the Bank	State Bank of India
ii)	Branch Address	Commercial Branch, Ground Floor, LHO Building, Hoshangabad Road, Bhopal - 462001(M.P.)
iii)	Branch Code	001920
iv)	City	BHOPAL
v)	Account No.	10170392871
vi)	MICR Code	462002027
vii)	IFSC Code	SBIN000192

- a) The 100% payment mentioned above is subject to submission of performance security by the supplier as per clause (4) above.
- b) The supplier should invariably submit acceptance and routine test certificates and other documents the purchaser specifies before the dispatch is made so that they can be checked and approved well in advance.
- c) The performance guarantee to be executed in accordance with this specification will be furnished on a stamp paper of value Rs.100/-. 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.

6. 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 a superficial 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 construction, the material shall be deemed to pass into TGTransco's ownership only at the final destination where they are delivered and accepted.

7. 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 interest 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.

8. 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.

9. 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 obligations 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.

10. TERMINATION FOR CONVENIENCE:

- a) 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 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.
- b) 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.

11. TERMINATION FOR INSOLVENCY:

The Purchaser may at any time terminate the Contract by giving written notice to the Supplier if the Supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the supplier, provided that such termination will not prejudice or not affect any right of action or remedy, which has accrued or will accrue thereafter to the Purchaser.

12. WARRANTY:

The equipment/ material shall be guaranteed for satisfactory performance for a period of 18 months from the date of receipt of material/equipment at destination site/ TLC stores in good condition against defects proved to be due to faulty design of material/ workmanship. If during this period, any of the material is found defective they shall be repaired or replaced by you free of all costs to the TGTransco. To and fro freight charges shall also be to your account only.

13. TAXES:

Taxes as indicated in the price schedule at Clause (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 signing of the contract under 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 furnished separately on satisfactory scrutiny of acceptance test certificates. 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

Concerned Executive Engineer : Two Sets

To this office : Six sets.

18. ERECTION, OPERATION & MAINTENANCE MANUALS: (Not applicable)

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 : Six sets

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

23. TESTS & TEST CERTIFICATES:

All routine tests in accordance with relevant ISS/BSS/IEC specifications shall be conducted on the equipment. You shall intimate this office at least 15 days in advance as to the date when you propose to conduct the acceptance tests for deputing TGTransco's representative to witness the tests. Three copies of the test certificates containing the results of all the acceptance tests along with routine tests carried out shall be furnished for approval.

The test certificates shall be submitted immediately after the tests are conducted and got approved before the equipment is dispatched.

24. 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 (where a 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.

25. INSURANCE:

The Materials / equipment supplied under the Contract will be fully insured against loss or damage incidental to manufacture or acquisition, transportation and delivery and also storage for 45 days at destination stores/site.

The insurance will be in an amount equal to 100% FADS value of material/ equipment on all risks basis. The policy will have a provision for extension to cover further storage if necessary at destination stores / site at TGTransco cost. The insurance beneficiary shall be TGTransco.

The supplier shall a) Initiate and pursue insurance claim till settlement, and b) Promptly arrange for repair and or replacement of any damaged items in full irrespective of settlement of insurance claim by the under writers, c) All costs because of insurance liabilities covered under the contract will be to supplier's account. The supplier shall provide the Purchaser with a copy of all insurance policies and documents taken out by him in pursuance of 'Contract'. Such copies of documents shall be submitted to the purchaser immediately after such insurance coverage. The supplier shall also inform the Purchaser in writing at least sixty (60) days in advance, regarding the expiry, cancellation and /or change in any of such documents and ensure revalidation/renewal etc., as may be necessary well in time.

The risks that are to be covered under the insurance shall be comprehensive and shall include but not limited to, the loss or damage in transit, storage, due to theft, pilferage riot, civil commotion, weather conditions, accident of all kinds, fire, flood, war risk (during ocean transportation) bad or rough handling etc., The scope of such insurance shall cover the entire contract value.

All costs on account of insurance liabilities covered under the contract will be on supplier's account and will be deemed to have been included in the bid price.

The documentary proof towards insurance shall be submitted while transporting the material/equipment to the purchasers destination

26. INTERCHANGEABILITY:

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

27. 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.

28. 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.

29. 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.

30. 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 or Secunderabad 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 should be provided free of Cost as per the tender specification.

32. 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,

Sd/-
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(Audit & Expenditure)/ TGTransco /Vidyut Soudha/Hyderabad.
The Chief Engineer/Transmission/TGTransco/Vidyut Soudha/Hyderabad.*
The Chief Engineer/Metro Zone/ TGTRANSCO /Erragadda/Hyderabad.*
The Superintending Engineer/Transmission/ TGTRANSCO /Vidyut Soudha/Hyderabad.*
The Superintending Engineer/Quality Control/ TGTRANSCO /Vidyut Soudha/Hyderabad.*
The SAO/Pay & accounts/ TGTRANSCO /Vidyut Soudha/Hyderabad along with Form-40.
The Superintending Engineer/OMC/Metro-Central/ TGTRANSCO/Hyderabad -82
The SAO/Metro-Central/TGTRANSCO/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://tgto.telangana.gov.in/>
* This order is placed against the indents indicated below:

Annexure

SI. No.	UO dated:	Description of work	132kV SCI (Nos.)	220kV SCI (Nos.)
1	UO.No.CE(Tr)/ SE(Tr)/DE-SS/ADE/ F.Banswada/ D.No.267/24, <u>Dt:25.06.2024</u> (PR: D.No.61/24, dt:19.09.2024)	Augmentation of PTRs Capacities from 2×100 to 3×100MVA at 220/132kV Banswada SS, (PR No. 1100000305)	10	18
2	UO.No.CE(Tr)/ SE(Tr)/DE-SS/ ADE/ F.wanaparthys/ D.No260/24, <u>dt:25.06.2024</u> (PR:D.No.60/2024, dt:19.09.2024)	Augmentation of PTRs Capacities from 2×100 to 3×100MVA at 220/132kV Wanaparthys SS (PR No. 1100000335)	27	24
3	UO.No.CE(Tr)/ SE(Tr)/DE-SS/ADE/ F.Yeddu-mailaram/ D.No367/24, <u>dt:24.07.2024</u> (PR:D.No.58/24, dt:19.09.2024)	Augmentation of PTRs Capacities from 2×1160 to 3×160MVA at 220/132kV yeddu-mailaram SS (PR.No.1100000334)	58	20
4	UO.No.CE(Tr)/SE(Tr)/DE-SS/ADE1/ F.Rolling Stock 24-25/D.No485/24, Dt:06.09.2024	Rolling Stock during FY:2024-25 (WBS S-23-01.10.01.01), (PR.No.1300001424)	500	250
5	UO.No.CE(Tr)/SE(Tr)/ DE-Tr/ F.No D.No.202/24, Dt:07.01.2025	Augmentation of 3Nos Substations: (i) 132/33kV SS Dontapally (PR.No.1100000356)	9	—
		(ii) 132/33kV SS Khaithalapur (PR.No. 1100000314)	9	—
		(iii) 132/33kV SS Moulali, (PR.No. 1100000315)	10	—
		(ii) 132/33kV SS Borapatla (PR.No. 1100000380)	10	—
6	UO.No.CE(Tr)/SE(Tr)/ DE-Tr/ F.No. D.No.221/24, Dt:09.01.2025	Augmentation of 4Nos Substations: (i) 132/33kV SS Ganeshpally (PR.No.1100000365)	10	—
		(ii) 132/33kV SS Nagaram (PR.No. 1100000366)	—	—
		(iii) 132/33kV SS Amarachinthia (PR.No. 1100000367)	—	—
7	UO.No.CE(Tr)/SE(Tr)/ DE-(SS)/ ADE/F.No.471 D.No.240/24, Dt:21.01.2025	Aug at 6Nos EHT SS in order to meet the increase demand (i) 132/33kV PTR at Malkaram SS (PR No. 1100000391)	9	—
		(ii) 132/33kV PTR at Madhapur SS (PR No. 1100000392)	9	—
		(iii) 132/33kV PTR at Miryalaguda SS (PR No. 1100000393)	9	—
8	UO.No.CE(Tr)/SE(Tr)/ DE-(SS)/ ADE/F.No.492 D.No.249/24, Dt:25.01.2025	Aug at 6Nos EHT SS in order to meet the increase demand (i) 132/33kV PTR at Chennur SS (PR No. 1100000372)	9	—
		(ii) 132/33kV PTR at Reddypet SS (PR.No. 1100000373)	9	—
9	UO.No.CE(Tr)/SE(Tr)/ DE-(Tr)/ ADE-Tr/ F.No. D.No.271/24, Dt:11.02.2025	Aug of 100MVA PTR capacities at 220/33kV Hayatnagar SS (PR.No.1100000368)	—	12

10	UO.No.CE(Tr)/SE(Tr)/ DE-(Tr)/ ADE-Tr/ F.No. D.No.272/24, Dt:13.02.2025	Aug of PTR at 220/132kV Fabcity SS PR No: 1100000316	28	10
11	UO.No.CE(Tr)/SE(Tr)/ DE-(Tr)/ ADE-Tr/ F.No. D.No.274/24, Dt:14.02.2025	Aug of PTR at 220/132kV Nagarkunool SS PR No: 1100000400	20	20
		220/132kV Kosigi SS PR.No.1100001522	20	20
		220/132kV Miyapur SS, PR.No.1100001524	20	20
12	U.O No. CE(Tr)/SE (Tr)/ DE- SS/ADE-1/ F.RS 23-24 D.No. 125/23, Dt:26.05.2023	Rolling Stock FY:2023-24, Scheme ID:Z-99-01 (PR.No.1300001139)	99	350
13	U.O No. CE(Tr)/SE (Tr)/ DE- SS/ADE/ F.2837/23/ D.No.495/ 23, Dt:29.09.2023	Augmentation of PTRs at various 4Nos.132/33kV EHT Substations. (PR No. 1300001281) (PR No. 1300001243) (PR No. 1300001244)	20	—
14	U.O No.CE(Tr)/ SE(Tr) / DE- SS/ ADE2/ F.4685/ D.No.599/23, Dt:14.11.2023	Erection of 2nd set of 132kV Bus PT in grid connected 18 Nos. Substation. (PR.No.1300001251) (PR No. 1300001252) (PR.No.1300001253) (PR.No.1300001254) (PR.No.1300001255) (PR.No.1300001256) (PR.No.1300001257) (PR.No.1300001258) (PR.No.1300001259) (PR.No.1300001260)	162	—
15	UO.No.CE(Tr)/SE(Tr)/DE- SS/ADE-2/F./D.No.753/23, Dt:19.01.2024	(iv) 132kV SS Mothkur	10	—
		(v) 132kV SS Alwal (Keshampet)	10	—
		(vi) 132kV SS Dharmasagar	10	—
16	UO.No.CE(Tr)/SE(TR)/ DE(Tr)/F.No.492/D.No.14/20 25, dt:19.04.2025: (PR No. given in UO dated:12.05.2025)	132kV SS Kandi, (PR.No.1100000402)	9	—
		132kV SS Burugupally, (PR.No.1100000403)	9	—
		132kV SS Godur ,(PR.No.1100000412)	9	—
		132kV SS Lingampet, (PR.No.1100000404)	10	—
17	UO.No.CE(Tr)/SE(Tr)/DE- SS/ADE2/F. / D.No.70/25, dt:13.05.2025	Erection of 132kV feeder bay extension at existing 132kV SS Kolanpaka for 132kV Bhongir feeder	29	—
18	UO.No.CE(Tr)/SE(Tr)/DE- Tr/F.5Nos Aug/ ADE2/F./ D.No.59/25, dt:20.05.2025	Augmentation at 132kV Padmanagar SS (PRNo. 1100000413)	10	—
		132kV RTS-B SS (PRNo. 1100000414)	10	—
19	UO.No.CE(Tr)/SE(Tr)/DE- SS/F.Rolling stock 25-26/ D.No.264/25, dt:01.09.2025	Rolling Stock during FY:2025-26 (PR.No.1300001705)	500	250
Total:			1631	994

GUARANTEED TECHNICAL PARTICULARS of 220KV & 132KV Solid Core Insulators

Sl.No.	Description	Unit	220KV SCI	132KV SCI
1	Manufacturer		Insulators & Electricals Company, Mandideep, Bhopal (MP)	Insulators & Electricals Company, Mandideep, Bhopal (MP)
2	Standards applicable		IEC-60168/ IEC: 60273/ IEC:60815	IEC-60168/ IEC: 60273/ IEC:60815
3	Type		Solid core Post Insulators	Solid core Post Insulators
4	Insulating material		Porcelain	Porcelain
5	No. of units per stack/ set	Nos.	2	1
6	Diameter of largest shed	mm	250	208
7	Height of Insulator stack	mm	2300	1500
8	Height of each basic unit	mm	1150	1500
9	Total creepage distance (minimum)	mm	6125	3625
10	Rated Working voltage	kV	245	145
11	Flashover Voltage			
a)	Dry Power Frequency Flashover Voltage	kV	525	365
b)	Wet Power Frequency Flashover Voltage	kV	510	305
c)	Impulse Flashover Voltage	kVp	1150	700
12	Withstand Test Voltage			
a)	Dry Power Frequency withstand voltage	kV	480	335
b)	Wet Power Frequency withstand voltage	kV	460	275
c)	Impulse withstand voltage	kVp	1050	650
13	Mechanical Strength (Minimum)			
a)	Cantilever Strength	kN	6	6
b)	Tensile Strength	kN	110	80
c)	Torsion Strength	kN-m	4.5	4.5
d)	Compression Strength	kN	220	160
14	Pitch Circle Diameter (PCD)			
a)	Top fitting p.c.d / hole pattern	mm	127	127
b)	Bottom fitting p.c.d / hole pattern	mm	225	184
15	Weight of the insulator stack	kgs	119	59

Sd/-
Chief Engineer/P&MM