

TAMIL NADU TRANSMISSION CORPORATION LIMITED
(A Subsidiary of TNEB Ltd)
OPERATION CIRCLE/SOUTH/TARAMANI/CHENNAI-113
LT SPECIFICATION NO : SE/O/CHNS/ 20 /25-26 dt.31.12.2025

1. Name of the work:

Replacement of existing 3 no. 3 ton Cassette AC by provision of new 3 no. 4 ton Cassette AC in Control and Relay room at 400/230 kV Guindy GIS SS

	Material Supply		
1	Supply of 4Ton Cassette Conditioner units	3	Set
2	Supply of 20 Gauge thickness Copper Pipe OD 3/4" & 3/8" with nitrile Rubber Insulation	70	RM
3	Supply of 4Cx2.5 Sqmm Cable between Indoor and Outdoor Unit	75	RM
4	Supply of 32mm UPVC drain Pipe with nitrile rubber insulation	15	RM
5	MCB	3	Nos
6	Supply of 40mm UPVC drain Pipe with nitrile rubber insulation	30	RM
7	Supply of 4Cx4 Sqmm Armoured Copper cable including gland	75	RM
8	Refrigerant gas -R32	6	Kg
9	Thread rod 8mm	12	Nos
10	False ceiling gypsum board	20	Nos
	Labour Charges		
11	Instalation of 4Ton Cassette Air Conditioner units	3	Nos
12	Installation of Copper Pipe 3/4" & 3/8" with nitrile Rubber Insulation and cotton role under the false floor	70	RM

13	Laying of 4Cx2.5 Sqmm Cable with PVC conduit pipe under the false floor	75	RM
14	Installation of 40mm UPVC drain Pipe with nitrile rubber insulation under the false floor	30	RM
15	Installation of 32mm UPVC drain Pipe with nitrile rubber insulation under the false floor	15	RM
16	Laying of 4Cx4 Sqmm Armoured copper cable from outdoor unit at first floor Open Terrace via Cable tray to Ground floor Cable Gallery and then to ACDB Panel in First Floor with Glanding and Termination.	75	RM
17	Labour Charges towards lifting and shifting ODU to First floor Open Terrace, lifting of false floor tiles and closing back, Minor Civil Work & wall Core Cutting.	1	LS
18	Nitrogen leak test	3	Nos
19	Anti-corrsion coating	3	Nos
	Installation of outdoor unit structure / Platform		
20	Fabrication and erection of support structure for ODU (Including Hand rail, Painting, Consumables, Tools & Machineries, Fastners and Bolt & Nuts)	1.25	MT
21	Scaffolding for support structure	150	Sqmt
22	Window modification to access ODU platform	1	Lot
23	Charges for lifting, shifting and transportation of Iron and steel material upto site	1.25	MT
	Supply of Steel Structure		
24	Supply of MS channel (75x75x5), MS plate (200x200x6)	1.25	MT

	Dismantling Charges		
25	Dismantling of Existing Cassette AC indoor Unit,Outdoor Unit and Accessories.	3	Nos
26	Labour Charges after Dismantling of AC unit by Filling up of open holes inside and outside the Wall and weather proofing Civil Work above the false ceiling. (Cement plastering) and false ceiling work	3	Nos
27	Labour Charges for fixing ,painting of False ceiling gypsum board	1	LS

2. EMD:

EARNEST MONEY DEPOSIT:

An amount of Rs.12,000/- (Rupees Twelve Thousand only) shall be remitted as Earnest Money Deposit by a CROSSED DEMAND DRAFT/ PAY ORDER payable to "THE SUPERINTENDING ENGINEER/ CEDC/ South I / Chennai-600078" payable at CHENNAI.

Earnest Money Deposit will not carry any interest. The Earnest Money Deposit will be refunded to the unsuccessful tenderers on application to the Superintending Engineer/Operation/South/Chennai after intimation of the rejection/ non-acceptance of tender. CHEQUE will not be accepted towards E.M.D. The tenders will be rejected if E.M.D. is not paid in the prescribed manner above.

Full exemption given from the payment of EMD to;

- (i) The Small Scale Industrial units located within the State and Registered with the Tamil Nadu Small Industries Development Corporation or the National Small Industries Corporation (NSIC) or **Acknowledgement issued for the Entrepreneur Memorandum part-II** obtained from the District Industries Centers in respect of those items for which the Registration Certificate / **Acknowledgement** has been issued
- (ii) Departments of the Government of Tamil Nadu and Undertakings and Corporations owned by the Government of Tamil Nadu.
- (iii) Labour Contract Co-operative Societies.
- (iv) Tiny Industries classified under SSI registered with the state of Tamil Nadu and Registration Certificate issued by Department of Industries and Commerce /

Government of Tamil Nadu.

- (v) Small Scale Industrial units located outside the State and such of those units registered with National Small Industries Corporation in respect of the items manufactured by them.

- Those Tenderers who are exempted from payment of E.M.D. may note that mere uploading/ submitting of bid by the bidder shall be considered as taken of acceptance of the bidder to pay as penalty an amount equivalent to EMD in the event of non fulfilment or non observance of any of conditions stipulated in the contract subsequent to such breach of contract.

The Earnest Money Deposit made by the Tenderer will be forfeited if:-

- a. he withdraws his tender or backs out after acceptance.
- b. he withdraws his tender before the expiry of validity of the offer, the period specified in the Specification, or fails to remit the Security Deposit.
- c. he violates any of the provisions of the regulations contained herein.

In the event of document furnished with the offer being found to be bogus or the document containing false particulars then the EMD paid by the tenderer will be forfeited in addition to blacklisting them for future tenders/contracts in TANTRANSCO.

3. Bid Qualification Requirement:

1. The bidder should have previously supplied Air conditioner within the past ten years as on the date of tender opening to any Public sector Undertaking/State Electricity Boards/any Thermal Power Station of Government Organizations (State or Central) in India. The date of the purchase order will be reckoned for ascertaining the eligibility of the tender. The bidder shall upload scanned original/copy of the purchase order in complete shape for the above during e-Tender.

Note: The Documentary proof for the above BQR shall be scanned and uploaded, failing which their bid will be summarily rejected. The successful bidder has to submit the attested copies of the documents satisfying BQR criteria after tender opening, in the office of the Tender Inviting Authority.

2. The receipt for having paid the Earnest money deposit of Rs.12,000/- (Rupees Twelve Thousand only) in the office of the Superintending Engineer/ CEDC/ south I / Chennai-600078 should kept in the outer cover along with Tender cover.

The tender of the contractor who does not fulfil the above conditions will be rejected.

4. CONDITIONS OF THE CONTRACT:-

The tenderer should quote the rate for all, covered by the enclosed schedule. The rates should be quoted in figures and in words without room for any ambiguity. The contractor may visit the area before quoting his rate. The tender in sealed cover superscripted as "Sealed tender, for the name of the work, due

date etc," should be addressed to EE/O/400kV Guindy SS and submitted at the office before 14:30 hrs on 19.01.2026.

The tender will be opened at 15:00 hrs on 19.01.2026 in the presence of such of the tenderers or their representative who are present.

The Executive Engineer / Operation /400kV Guindy GIS SS reserves the right to reject any or all the tenders without assigning any reasons.

5. PAYMENT:-

Payment shall be made by Asst. Accounts Officer/Expr. (APS) Chennai EDC/South I circle within a reasonable time.

6. SECURITY DEPOSIT:-

The successful tenderer will have to pay a Security Deposit of 5% of the value of the contract in the form of Demand Draft/Banker's Cheque within 30 days from the date of receipt of purchase order in form of DD in favour of SE/CEDC/Chennai South I, Chennai-78. Earnest Deposit money paid, if any, will be adjusted towards security deposit.

Failure to comply with the terms regarding security deposit set out in the purchase order within the stipulated time by the successful tenderer will result in the cancellation of the purchase order with for feature of EMD without any further reference to the suppliers and order will be made to L2 tenderer. Belated payment of SD shall not be accepted.

7. LIQUADATED DAMAGES:-

If the supplier fails to deliver the items/materials within the time specified in the contract or any extension there-of, the purchaser shall recover from the supplier as liquidated damages, a sum of HALF PERCENT (0.5%) of the contract price of the delayed / undelivered items / materials for each completed week of delay.

The total liquidated damages shall not exceed TEN PERCENT (10%) of the total contract price of the items/materials so delayed/undelivered. The date of receipt of materials at stores will reckoned as date of delivery for this purpose. Where ever the suppliers does not commence supply as agreed to the EMD/SD paid by the tenderer shall be forfeited in terms of the purchase order and his name black listed after due notice. His bad performance should be recorded for reference in future ordering. In additions, the difference in price agreed to by the failed supplier and the higher rate at which the materials are to be procured from the others because of the failure of the ordered supplied shall be recovered from the failed supplier.

8. COURTSUIT:

No suit or any proceedings in regard to any matters arising in any respect under this contract shall be instituted in any court.

9. SCHEDULE OF ITEMS:

The tender should be submitted only on the schedule form issued from this office which is enclosed herewith. The tenders received in other forms will be summarily rejected.

10. GOODS AND SERVICE TAX (GST):

GST Registration Number: TANTRANSCO has migrated into GST regime on 15.06.2017 by duly uploading various mandatory data as required by the GST portal. The TANTRANSCO has been registered as a dealer under GST Act 2017 (Registration No. 33AADCT4780AFZA). The GST Registration No of TANTRANSCO (for TDS) is 33CHET12024F1DI. The details are also posted in TANTRANSCO web portal.

11 . EPF / ESI:

EPF

a) The Contractor should have taken separate EPF main code number;

ESI

- a) As certain TANTRANSCO are covered under ESI Act 1948, the contractor who desires to take up works contract for and inside the TANTRANSCO which comes under the purview of ESI Act 1948 is required to comply with all the provisions stipulated to ESI Act 1948.
- b) The contractor should have taken separate ESI main code number.
- c) The contractor should be responsible for the payment of necessary ESI contributions – both Employer's and Employee's contributions as per the provisions of the ESI Act in respect of the actual workers engaged for the specified works.
- d) The contractor shall submit necessary returns to the ESI Organization within the stipulated time as required under the said ESI Act.
- e) The contractor shall produce the proof of payment of contributions -both Employer's and Employee's contributions made to ESI Organization in order to claim the bills for the respective work.
- f) The contractor shall be fully liable to meet and fulfill all the relevant provisions of the ESI Act in respect of the execution of the Tendered work.
- g) In case the contractor fails to fulfill any of the statutory provisions of the ESI Act the performance of the said Contractor in this regard will be noted for all future Contracts of TANTRANSCO.

12. ACCIDENT AND DAMAGES:

1. In case of any accident caused to any person including the contractor and Board's workmen or damage to any property equipment's in the course of the execution of the contract, the contractor will be solely held responsible for payment of compensation, Medical aid etc., In case the contractor fails to pay compensation within a reasonable time, the Board may settle the claims and arrange to recover the same from the contractor's bill.
2. The contractor shall be solely held responsible to pay accident compensation to his employee or the public etc., from any cause what so ever. He shall indemnify the TANTRANSCO against such accidents and shall take all steps to ensure insurance charges against all such claims.

13. ARBITRATION:

There will be no arbitration and the decisions of the Executive Engineer / Operation 400kV Guindy GIS SS /Chennai will be final in case of any dispute between the contractor and the Corporation.

14. SUB-LETTING OR TRANSFER:

The contract should not be sublet to any other persons or transferred to Power of Attorney authorizing other to receive the payment.

The contract rate once agreed will be final, fixed and firm during the contract period.

15. REJECTION OF TENDERS:

The tender is liable to be rejected if it is:

- 1) Not accompanied by the requisite Earnest Money Deposit or proof followed
- 2) Incomplete and evasive.
- 3) Not properly signed by the tenderer
- 4) From any black listed firm or contractor
- 5) Received by e-mail or any other form of soft copy.
- 6) Received after the expiry of the due date & time
- 7) Not in conformity with Board's service or local authority.
- 8) From a tenderer whose past performance or vendor rating is not satisfactory.
- 10) Received without superscription as prescribed in the specification
- 11) If the offer is made for the part of the material and not the whole of the material Covered under the specification.

16. POWER TO RELAX:

Notwithstanding anything contained in any of these regulations the Executive Engineer / Operation 400kV Guindy GIS SS shall have the right to relax or waive any of the condition stipulated in the tender specification.

17. INDEMNITY BOND:

The successful tenderer should furnish the indemnity bond to a value of Rs.500/- Non-judicial stamp paper in the following form before taking up the work.

I/We------(contractor)do hereby indemnify the Executive Engineer / Operation /400KV Guindy GIS SS/ Chennai against any damages, injury persons equipment's or property resulting from any accident and agree to apply provisions of Workmen's compensation act and take steps to proper insure against any claims there under.

18. COMPLAINTS:

If the contractor fails to fulfill the terms and conditions of the contract or unable to continue the work the corporation has got the right to engage other agency for the work and the resultant excess expenditure of any incurred by the Board, will be recovered from the contractor either from his security deposit or from the outstanding bills. The contract is liable to be terminated if the tender withdrawn or not taking up the work within a week after executing the K2 Agreement

19. DISCIPLINE:

The contractor and his staff should observe strict discipline and decorum while on duty. Any notice to the contractor shall be deemed to have been served sufficiently and properly if the notice is given directly in writing or left at his/ her usual or last known place of the above business, as well as displayed on the notice board of this office.

20. EVALUATION:

The tender will be evaluated for the total price of all the units/items including taxes.

21. AGREEMENT:-

The successful tenderer shall furnish an undertaking towards jurisdiction of legal proceedings in the non-Judicial stamp paper of Rs.200/- (Rupees Two hundred only) for the fulfillment of the contract. Only after execution of agreement, payment will be made.

22. BILL PAYMENTS:

Payment will made within a reasonable time against your bill claimed. The payment will be made by Cheque/Demand draft in any one of the commercial banks or their branches in Tamil Nadu as may be decided by the TANTRANSCO from time to time. Exchange commission if any will be to your account. Proportionate cut in labour charges will be enforced for the days on which the labour is not supplied.

The Earnest Money Deposit and the security deposit amount collected will be released after completion of work and within reasonable time.

23. Validity:

Validity period 120 days.

24. Delivery Period:

30 days from the date of receipt of P.O.

TECHNICAL**25. SCOPE**

Replacement of Existing 3 x 3 Ton Cassette AC by Provision of new 3 no. 4-ton Cassette AC in 230kV Control and Relay room at 400/230 kV Guindy GIS SS.

26.0 GUARANTEED PARTICULARS

The tenderer shall furnish all the particulars of the materials offered against this specification. Unless full details are furnished, the tender may not be considered.

27.0 MANUALS

Three copies of the technical literatures, drawings, installation, operating, maintenance manuals, warranty card etc., shall be sent along with each equipment for verification in the event of placement of order. The manual should contain exhaustive literature about each and every feature of the equipment.

28.0 INSTALLATION OF AIR CONDITIONERS

- 28.1 Installation / Mounting/ Fitting indoor & outdoor units at site, as per standard practice including Leak testing.
- 28.2 Supply and fixing of suitable MS frame / stand mounting the outdoor units on the terrace or wall with painting as per site requirement. Necessary Earth connection to earth mat is to be made for the outdoor units. Necessary leak tests are to be carried out in the AC units for refrigerant leaks if any, after completion of the installation works
- 28.3 Complete job including cutting chiselling in walls for necessary opening on the walls for drawing copper tubing, electrical cabling and discharging the drain into a floor trap/ gully as per site conditions with insulation, and making good of all chases/ cuts etc. with cement plaster etc. on both outer and inner sides of the wall both as directed by the Engineer in-charge. Necessary minor modification to false flooring/ceiling if required is to be made by the supplier, for proper installation of the AC units.
- 28.4 Supply and installation of suitable size copper refrigerant lines (suction and return) duly insulated thick nitrile rubber with aluminium foil covering along with required electrical and control cabling as per standard practice. Routing of the refrigerant Copper piping are to be made without any joints.

- 28.5 Supply and laying of required diameter of HDPE / PVC drain pipe up to drain as directed by the Engineer in-charge with all accessories and necessary fixing material as per site requirements as per standard practice including U trap for each Air Conditioner.
- 28.6 Supply & installation of PVC batten of suitable size / capacity for all hangings as per site requirements.
- 28.7 Supply and laying of additional copper tubing as per site requirements if necessary.
- 28.8 Supply and laying of additional 4x2.5sq mm. and 4x6sq mm. Copper cable of ISI mark with necessary fixing material if necessary.
- 28.9 Prior approval of TANTRANSCO's Engineer is to be obtained by the Supplier for the Installation and Commissioning schedule.

29.0 DISMANTLING

- 29.1 Dismantling of existing 3 no. 3.0 ton Indoor & Outdoor AC Units associated with all accessories at the location which are in rooms with the existing false flooring/false ceiling.
- 29.2 Necessary precautions to be taken while dismantling of existing AC Units without damaging the false ceiling.
- 29.3 Necessary minor works to Filling up of open holes inside and outside the Wall and weather proofing Civil Work above the false ceiling is to be made by the supplier, after dismantling of existing Split AC units.

30.0 GENERAL

- 30.1 The manufacturer shall have adequate design, infrastructure and manufacturing facilities, capacity and procedures including quality control. The bidder shall have the field service organization / arrangement to provide the necessary field services required for maintenance/repair of the equipment.
- 30.2 The equipment shall be in compliance to the specifications mentioned in Technical Section of the tender and shall be of the latest technology, best quality and high standards. The tenderer should enclose the product catalogue supporting the specifications mentioned.
- 30.3 Any optional accessories/ tooling, besides the standard equipment recommended for the better performance of the equipment, if offered, be provided with their full technical details including their use and advantage in a separate sheet with the tender documents.
- 30.4 The Air Conditioners shall be suitable for use in atmospheric condition indicated elsewhere in the specification inherently resistant at atmospheric corrosion or be suitably protected against corrosion both during storage and in service. The Air Conditioners shall be capable of withstanding dynamic and thermal stresses without any damage or deterioration.
- 30.5 All externally mounted components housed in the AC outdoor units must be capable of serving in a corrosive, chemically polluted and saline atmosphere. Required materials

of construction to be used and necessary painting/coating to be done to suit the above outdoor conditions.

31.0 BACK UP ASSURANCE

The spares required towards maintenance of the equipment ordered shall be made available for replacement for a minimum period of ten years from the date of last despatch at a reasonable price. Necessary technical support should be provided if required by the purchaser.

GUARANTEED TECHNICAL PARTICULARS

The salient features / technical parameters and standards to be complied with are listed below:

Nominal Capacity	4 Ton	Bidders' response
Type	Ductless, Cassette type	
Electricity input	380-440 V / 50 Hz / Three Phase / 230V / 50 Hz / Single Phase	
Nominal Cooling Capacity	12-14 Kilo Watt	
Nominal Cooling Capacity (BTU/Hr)	44400-48000	
ISEER	Between 2.5 to 3.0	
Conformation to Standards	IS 1391: 1992(Part-II), IS 694: 1990, IS 10773: 1994, IS 10617: 1983.	
Make of AC units	Any reputed Brand inverter AC	
Environment condition	Anti-corrosion coating in indoor and outdoor Suitable for highly polluted Area	
Max. Ambient temperature	Upto 52°C ± 5%	
Compressor	Scroll compressor/Rotary Twin	
Minimum Piping Capability Total	45m	
Minimum Piping Capability Vertical	20m	
Refrigerant	R32/R410	
Function modes	Auto/Cool/Fan/Dry – shall have sleep and power saving modes	

Air filtering unit	Washable, dust proof and anti-bacterial filter	
Other Features	Automated vertical swing for horizontal louvers	
Remote handset	LED/LCD Remote Both wired and Wireless	
Minimum Compressor & PCB Warranty	5 years	

