

TRANSMISSION CORPORATION OF TELANGANA LIMITED

Corrigendum -II for tender notice for Tender specification No. W-08/2025-26 of SE/OMC/Adilabad.

Lr.No : SE/OMC/ADB/ADE(T)-II/D.No. 1329/25, Dt:03.02.2026

Sub: - OMC Circle, Adilabad- Corrigendum-I for extension of tender opening date of tender notice for "Construction of new circuit breaker steps in place of damaged circuit breaker steps for existing 33KV &132KV Circuit breakers and construction of new compound wall in place of collapsed compound wall including wicket gate pillars at 132KV SS Bellampally in O&M Division Mancherial (**Invited under earmarked works- SC community Contractors are only eligible to participate**)" vide Tender specification No. W-08/25-26 of SE/OMC/Adilabad - Reg.

Ref: - 1) Tender Notice No.SE/OMC/ADB/ADE(T-II)/D.No.1146/25, Dt:24.12.2025.
2) Lr.No : SE/OMC/ADB/ADE(T)-II/D.No.1264/25, Dt: 22.01.2026(*Corrigendum-I*)

Following **corrigendum-II** with respect to the dates for sale & receipt of Tender specification is issued to the Tender Notice vide reference.

Last date for receipt of requisition for and issue of tender schedule.	10.02.2026 up to 17:00 Hrs.
Last date for receipt of Tender Schedule	11.02.2026 up to 15:00 Hrs.
Date of opening of Tender	11.02.2026 At 16:00 Hrs

1. Detailed Tender schedule can be downloaded from TGTRANSCO website www.TGTRANSCO.in
2. Bidders shall remit Rs.590/- if collected in person and Rs.690/- if it is to be sent through post/courier, towards non-refundable cost of the Bid Specification in the following manner.
 - a. Through Online payment through NEFT/RTGS to the account details mentioned Name of the Account: Superintending Engineer/OMC/TGTRANSCO/Adilabad, Receipt Account No: 62461816171, IFSC CODE: SBIN0020124
 - b. D.D. drawn in favour of Superintending Engineer/OMC/TGTRANSCO/Adilabad payable at Mancherial on all working days during office hours.
3. Details can be had from the concerned at O/o Superintending Engineer/OMC/Adilabad on all working days during office hours. (Contact Nos: ADE(T).9493590167,8106637689).

4. The Superintending Engineer/OMC/Adilabad reserves the right to reject any or all the tenders without assigning any reason and for selection of supplier for awarding the work without assigning the procedure of selection and supplier who quoted does not have any right for awarding the work based on precedents, procedures followed at other places etc.
5. If any of the dates mentioned in the tender notification and specification happens to be holiday due to unforeseen reason, the same will be postponed to the next working day.
6. If the tender opening authority happens to be unavailable on the mentioned date of tender opening, the same will be postponed accordingly.
7. EMD @ 2% of the quoted value shall be submitted along with bid.
8. Leaflets and descriptive literature: Tender should be accompanied with full description particulars and working drawings or brochures of the materials.
9. In case of ambiguity, discrepancy with respect to tender conditions and situations which are not covered in tender specification, SE/OMC/Adilabad is the final authority for taking decision and the decision taken cannot be questioned.

Sd/-
Superintending Engineer,
OMC, Adilabad.

To
The Notice Board

Copy submitted to
The Chief Engineer / Transmission/TGTRANSCO/V.S./Hyderabad.
The Chief Engineer / Karimnagar Zone/TGTRANSCO/Karimnagar.

Copy to DE/O&M/Mancherial
EE/Civil/Adilabad

TRANSMISSION CORPORATION OF TELANGANA LIMITED

Corrigendum -I for tender notice for Tender specification No. W-08/2025-26 of SE/OMC/Adilabad.

Lr.No : SE/OMC/ADB/ADE(T)-II/D.No.1264/25, Dt: 22.01.2026

Sub: - OMC Circle, Adilabad- Corrigendum-I for extension of tender opening date of tender notice for "Construction of new circuit breaker steps in place of damaged circuit breaker steps for existing 33KV &132KV Circuit breakers and construction of new compound wall in place of collapsed compound wall including wicket gate pillars at 132KV SS Bellampally in O&M Division Mancherial (**Invited under earmarked works- SC community Contractors are only eligible to participate**)" vide Tender specification No. W-08/25-26 of SE/OMC/Adilabad - Reg.

Ref: - Tender Notice No.SE/OMC/ADB/ADE(T-II)/D.No.1146/25, Dt:24.12.2025.

Following **corrigendum-I** with respect to the dates for sale & receipt of Tender specification is issued to the Tender Notice vide reference.

Last date for receipt of requisition for and issue of tender schedule.	02.02.2026 up to 12:00 Hrs.
Last date for receipt of Tender Schedule	02.02.2026 up to 15:00 Hrs.
Date of opening of Tender	02.02.2026 At 16:00 Hrs

10. Detailed Tender schedule can be downloaded from TGTRANSCO website www.TGTRANSCO.in

11. Bidders shall remit Rs.590/- if collected in person and Rs.690/- if it is to be sent through post/courier, towards non-refundable cost of the Bid Specificati

12. on in the following manner.

- a. Through Online payment through NEFT/RTGS to the account details mentioned Name of the Account: Superintending Engineer/OMC/TGTRANSCO/Adilabad, Receipt Account No: 62461816171, IFSC CODE: SBIN0020124
- b. D.D. drawn in favour of Superintending Engineer/OMC/TGTRANSCO/Adilabad payable at Mancherial on all working days during office hours.

13. Details can be had from the concerned at O/o Superintending Engineer/OMC/Adilabad on all working days during office hours. (Contact Nos: ADE(T).9493590167,8106637689).

14. The Superintending Engineer/OMC/Adilabad reserves the right to reject any or all the tenders without assigning any reason and for selection of supplier for awarding the work without assigning the procedure of selection and

supplier who quoted does not have any right for awarding the work based on precedents, procedures followed at other places etc.

15. If any of the dates mentioned in the tender notification and specification happens to be holiday due to unforeseen reason, the same will be postponed to the next working day.
16. If the tender opening authority happens to be unavailable on the mentioned date of tender opening, the same will be postponed accordingly.
17. EMD @ 2% of the quoted value shall be submitted along with bid.
18. Leaflets and descriptive literature: Tender should be accompanied with full description particulars and working drawings or brochures of the materials.
19. In case of ambiguity, discrepancy with respect to tender conditions and situations which are not covered in tender specification, SE/OMC/Adilabad is the final authority for taking decision and the decision taken cannot be questioned.

Sd/-
Superintending Engineer,
OMC, Adilabad.

To

The Notice Board

Copy submitted to

The Chief Engineer / Transmission/TGTRANSCO/V.S./Hyderabad.

The Chief Engineer / Karimnagar Zone/TGTRANSCO/Karimnagar.

Copy to DE/O&M/Mancherial

TRANSMISSION CORPORATION OF TELANGANA LIMITED

NOTICE INVITING TENDERS

TENDER NOTICE No.SE/OMC/ADB/ADE(T)-I/F.No./D.No. 1146 /25, Dt:24.12.2025.

1. The Superintending Engineer / OMC / TGTRANSCO / Adilabad invites sealed tenders from the valid registered contractors of TGTRANSCO (**SC category contractors/Firms**) for the following work.

Tender specification No.	Name of the work	Approx value of the work including GST. (Rs.)	EMD to be paid (Rs.)	Cost of specification (Rs.)
W-08/24-25	<p>Construction of new circuit breaker steps in place of damaged circuit breaker steps for existing 33KV &132KV Circuit breakers and construction of new compound wall in place of collapsed compound wall including wicket gate pillars at 132KV SS Bellampally in O&M Division Mancherial</p> <p>(Invited under earmarked works- SC community Contractors are only eligible to participate)</p>	3,45,044-00	Exempted	590/-

2. The bidder can obtain tender specification from the office of the undersigned

Last date for receipt of requisition and : **22.01.2026 up to 17:00Hrs**
Issue of tender specification.

Last date for receipt of Tender Schedules : **23.01.2026 up to 3:00 PM**

Date of opening of Tender : **23.01.2026 @ 4:00 PM**

3. Bidders shall remit Rs.590/- if collected in person and Rs.690/- if it is to be sent through post/courier, towards non-refundable cost of the Bid Specification, in the following manner.

i. Through online payment through NEFT/RTGS to the account details mentioned
Name of the Account: Superintending Engineer/OMC/TGTRANSCO/Adilabad, Receipt Account No: 62461816171, IFSC CODE: SBIN0020124 (Proof of payment shall be submitted while purchasing tender specification).

OR

Demand Draft drawn on the State Bank Of India or any nationalised bank payable at Mancherial in favour of Superintending Engineer/OMC/TGTRANSCO/Adilabad payable at Mancherial. (Demand draft should not be folded).

4. Details can be had from the concerned at O/o Superintending Engineer/ OMC/ Adilabad on all working days during office hours. (Contact person: ADE (Tech):8106637689)
5. The Superintending Engineer/OMC/ Adilabad reserves the right to reject any or all the tenders without assigning any reason and for selection of agency for awarding the work without assigning the procedure of selection and agency who quoted does not have any right for awarding the work based on precedents, procedures followed at other places etc.,
6. If any of the dates mentioned in the tender notification and specification happens to be holiday due to unforeseen reason, the same will be postponed to the next working day.
7. This notice is available on TGTRANSCO website <https://www.tgtransco.com>.

Sd/-
Superintending Engineer,
OMC, Adilabad.

To
The Notice Board

Copy submitted to
The Chief Engineer/Transmission/TGTRANSCO/V.S./Hyderabad.
The Chief Engineer/Karimnagar Zone/TGTRANSCO/Karimnagar.

Copy to: DE/O&M/Mancherial
EE/Civil/Adilabad

TERMS & CONDITIONS

Name of the work:

Construction of new circuit breaker steps in place of damaged circuit breaker steps for existing 33KV &132KV Circuit breakers and construction of new compound wall in place of collapsed compound wall including wicket gate pillars at 132KV SS Bellampally in O&M Division, Mancherial in OMC Circle, Adilabad.

1. ELIGIBILITY:

i) The bidder should be SC Contractor (individual / proprietor firms / partnership firms /private limited companies promoted by the SCs and shareholders of the SCs in the proprietor ship firms. Partnership firms and Private limited companies should be 100%).

ii) The bidder should have a valid registered A-grade Electrical license for 33KV and above voltages issued by the Electrical inspectorate and registration with TGTRANSCO/TGNPDCL/TGSPDCL for electrical and civil works.

(OR)

License Class III and above of R&B, I & CAD, Panchayat Raj and other Government Departments of Government of Telangana.

iii) Turnover of the bidder for the year **2023-24 or 2024-25** shall not be less than the ECV.

iv) The bidder in his name should have executed the similar nature of works **or any Civil works** as prime contractor. (The bidder shall produce the copies of experience certificates issued by an officer not below the rank of Divisional/ Executive engineer or equivalent cadre only).

2. PRICE: The rates duly loaded with quoted tender percentage for all the items of work covered in Schedule-A shall be firm on all accounts such as increase in quantum of work over that provided in the contract, execution of contract beyond the scheduled completion period for whatever reasons. The prices shall include all the taxes and duties like GST& any other Taxes wherever applicable. **Price variation is not applicable for this contract.**

3. PRICE VARIATION CLAUSE: **Not Applicable**

4. VALIDITY OF BIDS: The rates quoted shall be valid for **90** days from the date of opening of tender.

5. EARNEST MONEY DEPOSIT (Bid security):

i) EMD is exempted at the time of Bids submission for the firms & individuals belonging to SC/ST. They must enclose caste certificate copy issued by Mandala Revenue Office/the Mandal Tahsildar along with the specification without which the tender will be rejected.

6. DOCUMENTS TO BE FURNISHED:

The Bidder shall enclose with the tender, the copies of

- a. SC Caste certificate copy issued by Mandala Revenue Office/the Mandal Tahsildar
- b. Valid registered A-grade Electrical license for 33KV and above voltages issued by the Electrical inspectorate and registration with TGTRANSCO/TGNPDCL/ TGSPDCL for electrical works.

(OR)

License Class III and above of R&B, I & CAD, Panchayat Raj and other Government Departments of Government of Telangana

- c. CA certificate for turnover for the financial year 2023-24 or 2024-25.
- d. Certificates of experience in similar nature of works or any Civil works (Copies of experience certificates issued by an officer not below the rank of Divisional/Executive engineer or equivalent cadre only).

7. SECURITY DEPOSIT: Contractor has to pay within 15 days from the date of issue of the LOI, equal to 5% of the total value of the contract as security deposit. The security deposit shall be paid in shape of Demand Draft drawn in favour of the Superintending Engineer/OMC/TGTRANSCO/Adilabad, payable at Mancherial or through NEFT/RTGS to the account of Superintending Engineer/OMC/TGTRANSCO/Adilabad, Receipt Account No:62461816171, IFSC CODE: SBIN0020124.

No interest will be paid on security deposit. The security deposit will be released after completion of guarantee period upon certification by the concerned field Engineer on satisfactory performance of the works.

The S.D. will be forfeited in the following cases:

- a) If the works are not commenced after handing over of site.
- b) If the works found as poor in progress or negligence.

8. ADDITIONAL SECURITY DEPOSIT: If the rate quoted by the bidder is less than 10% of ECV, additional security deposit (ASD) shall be paid for an amount equal to the less percentage below 10%. E.g, if the bidder quotes 15% below the ECV, then he has to pay ASD equivalent to 5% of the ECV. The Additional Security Deposit shall be paid in the form of DD in favour of the Superintending Engineer/OMC/TGTRANSCO/Adilabad payable at Mancherial or through NEFT/RTGS to the account of Superintending Engineer/OMC/TGTRANSCO/Adilabad, Receipt Account No:62461816171, IFSC CODE: SBIN0020124.

The Additional Security Deposit will be released after completion of the work upon certification by the concerned field engineer.

9. Rejection of Bid:

The bid is liable for rejection

- i) If the documents mentioned at point 6 are not enclosed.
- ii) If the tender quoted is more than 5% on ECV.

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10. EVALUATION CRITERIA:

- i. Where there is a discrepancy between words and figures, the amount in words will prevail.
- ii. Evaluation will be done based on the total price with applicable GST.
- iii. Bidder who Offers the lowest price on the estimate will be Considered.

11. NEGOTIATIONS: Only L1 bidder will be called for negotiations.

12. CONTRACT AWARD ORDER:

- a. Successful bidder will be issued with contract award order after due payment of security deposit as mentioned at clause-7,8 and the successful bidder will then be called the service provider.
- b. The service provider shall acknowledge the purchase order/contract award order.

13. PAYMENT TERMS:

- i) 90% payment will be made based on the bills of the contractor after certification of work done by officers in charge of the work and following all the rules in vogue.
- ii) 5% payment will be made after completion of works and Submission of material accounts.
- iii) Balance 5% of payment will be released after completion of guarantee period and upon certification by the concerned engineer regarding performance of works done.
- iv) If the contractor has received any excess payment by mistake or if any amounts from the TGTRANSCO due to any other reason and when it is not possible to recover such amounts under the contract recovery of the same from any other amounts due to him and Bank Guarantee given by the contractor.
- v) What so ever may be reason, no extra payment will be made by TGTRANSCO other than the agreed rates at a later date.

14. Period of completion: The work should be [completed within 90 days from](#) the date of handing over of site. The work should be carried out as per the schedule enclosed.

15. QUALITY: Equipment/Materials supplied by you shall be of good quality. [The Executive Engineer/Civil/Adilabad](#) shall ensure the quality of the material before use.

16. Haritha Nidhi: Haritha Nidhi @0.01% will be deducted from the total value of the Contract from the work contract bills and will be remitted to the concerned department.

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17. PENALTY FOR DELAY IN SERVICE:

The completion time of works mentioned in the programme for execution of works is the essence of the contract. For delay in completion of erection, civil and other works stipulated in the contract, penalty will be levied as follows:

In case of delay in the scheduled works, whatever be the reasons, the TGTRANSCO can levy and collect the penalty @ 0.5% per week or part thereof for the portion of works not completed, subject to a maximum of 5% of the total value of works. Once the maximum is reached, TGTRANSCO may consider termination of the contract.

18. DEVIATION CLAUSE:

The quantities indicated in the schedules are only provisional and are likely to change during actual execution. When quantities of any item are likely to exceed beyond 25% over and above the scheduled quantity or any new items/supplemental items arises, the contractor shall bring the fact to the notice of Superintending Engineer/OMC/Adilabad, three weeks in advance and take orders for going ahead with the work.

All such items of works shall, however, be executed only on the written directions of the concerned Divisional Engineer. **The contractor is bound to execute all increased/supplemental/deviation quantities** that are found essential, incidental and inevitable during execution of the contract at the rates to be worked out as below:

a) For the items covered in the schedule:

For quantities increased over and above the scheduled quantities: The rates awarded in the contract are applicable for any increase in quantities of works.

b) For Supplemental / New Items:

- i) For the items where the rate can be deduced from the estimate or TGTRANSCO / DISCOMS / common SSR, the rate applicable will be the estimated / SSR rate plus or minus (+/-) tender percentage accepted by the bidder for Schedule-B. The schedule of rates adopted for supplemental items/new items shall be from the current SSR applicable during the execution period.
- ii) For the items where the rates of new items cannot be deduced from the estimate / SSR, the rate payable will be arrived based on the prevailing market rates duly enquiring / collecting quotations and observing the reasonableness of the rates by the purchaser.

19. GOODS AND SERVICES TAX (GST):

- a. GST No. of TGTRANSCO is 36 AAFCT0166J1Z9 and shall be quoted on their invoice.
- b. The GST Registration number of Supplier shall to be quoted on each invoice.
- c. Tax invoice shall contain SGST and CGST breakup (or IGST) along with HSN Code.
- d. Suppliers who have opted for composition scheme in GST shall not charge GST in their invoice. Supplier shall submit the Bill of supply without charging GST stating on the top of their Bill of Supply that “Composition taxable person, not eligible to collect tax on supplies”.
- e. The input tax credit claimed by registered taxable person should commensurate reduction in the price of goods and services supplied to TGTRANSCO.
- f. GST TDS @ 2% will be recovered and remitted to Government (if applicable).
- g. E-mail address shall be mentioned on the invoice to send TDS certificate.

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- 20. Labour Cess:** Applicable labour cess @1% will be deducted from the bills.
- 21. Statutory variation:** Any variation in taxes up or down will be to the account of TGTRANSCO.
- 22. GUARANTEE:** The contractor should stand guarantee for workmanship for a period of **12** months from the date of completion of work i.e., from the date of check measurement.
- 23.** If any accident occurs to the contractor or to his labour during the course of work or outside, the Contractor only will be held responsible and for any compensation to be paid, the contractor has to pay. The TGTRANSCO is not responsible and if the contractor does not pay such Compensation as settled by the courts or labour departments, the TGTRANSCO will recover such amount from any of the bills of the contracts held with TGTRANSCO.
- 24.** The contractor should provide all statutory requirement and facilities to the workers engaged at his own cost.
- 25.** The Tenderer shall note that in case of carrying out the work in the vicinity of equipments/live parts in service; care must be taken to avoid any accidents. If any work is to be done on any of the equipment/line/tower, the Tenderer/his representative shall ensure that such works will be carried out only after obtaining proper line clear /shut down. It may clearly be noted that in no case the TGTRANSCO Ltd., will be responsible for any accidents that may occur and for any compensation to be paid arising out of the accidents. The Contractor shall take care of providing insurance to the labour deployed by him. No child labour should be employed.
- 26.** The contractor should arrange accommodation and boarding to the workers engaged by him for the work, at his own cost nearer to the work spot.
- 27.** For any reason if the work is delayed, stopped, interrupted or trying to postpone the work without any reasonable cause to the satisfaction of TGTRANSCO Engineers, the loss sustained by the TGTRANSCO due to above inconvenience shall be paid by the contractor.
- 28.** Every care should be taken by the Contractor for his labour while doing the work so as to not to damage the TGTRANSCO equipment, properties, T&P, etc. In case of any damage, the contractor is responsible and shall pay the damages sustained.
- 29.** The contractor shall comply with all state and central laws, statutory rules, regulations etc., such as payment of wages act, minimum wages act, workmen compensation act, employees liabilities act, industrial disputes act etc., and EPF scheme and other acts as directed by Government during the tenure of contract period.
- 30.** Medical facilities for the labour engaged by the contractor should be arranged at his own cost.

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31. The contractor's personnel should follow all the rules in vogue at site.

32. Termination of contract:

If the works are not commenced after handing over of site or if it is found that progress of works are not commensurate with the program of completion or if the contractor does not fulfil his obligations as per the terms of the specification, TGTRANSCO will be entitled to terminate the contract in part or full by giving 15 days notice. If no satisfactory reply is received or the progress of the works are not improved within 15 days of issue of the final notice/show cause notice, the superintending Engineer/OMC shall terminate the agreement, which will be followed by stoppage of all payments to the contractor, encashment of BGs/SD and after termination of contract, the balance works/Supplies shall be completed through alternate agencies at Contractors risk and cost.

33. No part of the contract shall be sublet without written permission of Superintending Engineer/OMC/TGTRANSCO/Adilabad nor shall be transferred power of attorney/ authorizing others to receive payments on contractor's behalf.

34. TGTRANSCO has right to cancel the work at any stage without assigning any reason.

35. FORCE MAJEURE:

- a. The contractor will not be liable for penalty for delay in work or termination for default if and to the extent that its delay is the result of an event of Force Majeure.
- b. For purpose of this clause, "Force Majeure" means an event beyond the control of the supplier and not involving the contractor's fault or negligence and not foreseeable. Such events may include, but are not restricted to, wars or revolutions, fires, floods, epidemics, quarantine restrictions, lockdowns and freight embargoes.
- c. If a Force Majeure situation arises, within 15 days from the date of eventuality, the contractor shall notify TGTRANSCO in writing of such condition and the cause thereof. Unless otherwise directed by the TGTRANSCO in writing, the contractor shall continue to perform their obligations under the contract as far as it is reasonably practicable, and will seek all reasonable alternative means for performance not prevented by the Force Majeure event.

36. JURISDICTION: All and any disputes or differences arising out of or touching this contract will be decided by the Courts situated at Mancherial in Telangana State only.

37. GENERAL:

- i) Bidder shall sign on all the pages of the specification as a token of acceptance of all the terms and conditions of the specification.

CONTRACTOR

- ii) In case of ambiguity, discrepancy with respect to tender conditions and situations which are not covered in tender specification, SE/OMC/Adilabad is the final authority for taking decision and no correspondence will be entertained in this matter and the decision taken cannot be questioned.
- iii) The Superintending Engineer/OMC/Adilabad reserves the right to reject any or all the tenders without assigning any reason.
- iv) The Superintending Engineer/OMC/Adilabad reserves the right to cancel the tender process at any stage if required and bidders shall not have right to ask for reasons.

38. Any further information regarding tender, specification and schedule can be had from Office of Superintending Engineer/OMC/TGTRANSCO/Adilabad.

39. Insurance:

- i) The contractor shall have to provide insurance cover for labour employed by him against any accidents as required as per workmen compensation Act. The contractor shall produce documents to that effect to the Engineer-in-charge.
- ii) Material which is to be supplied by you and material to be issued by TGTRANSCO shall be insured for transit and storage and erection risks after their arrival at site. All insurance premiums shall be borne by you. Insurance will be paid as per actual on submission of original insurance documents.

40. Equipment/Material required for the work: All the material required under the scope of this contract shall be supplied by you. The standards, workmanship and technical requirements of these materials shall conform to the relevant standards and Technical specification. You shall be responsible for the proper handling and maintenance of these materials up to the time of the handing over of the completed works to the TGTRANSCO and returning of surplus material if any, at the TGTRANSCO Stores. Yards and stores for stacking of the materials/Equipment supplied by you shall be open for inspection by the TGTRANSCOs staff as and when required.

Sd/-

CONTRACTOR

**Superintending Engineer,
OMC Circle, Adilabad.**

TECHNICAL SPECIFICATION (CIVIL)

1. SCOPE :

The Scope of the work covers Construction of new circuit breaker steps in place of damaged circuit breaker steps for existing 33KV &132KV Circuit breakers and construction of new compound wall in place of collapsed compound wall including wicket gate pillars at 132KV SS Bellampally in O&M Division, Mancherial in OMC Circle, Adilabad as per schedule and approved drawing etc. The contractor shall execute the works to the extent required to complete the work as a whole.

2. WORKS INVOLVED :

- Earthwork excavation in all types of soils
- Laying of cement concrete, Providing of HYSD, laying of RCC etc as per schedule.

3. CLEARING UP THE SITE :

- During the work, the contractor shall keep the work site and storage area used by him free from accumulation of waste materials or rubbish and before completing the works the contractor shall, at his own cost, remove or dispose in a manner satisfactory to the Engineer in charge.
- All temporary structures, waste and debris shall be cleaned, all holes in the ground shall be filled in and the land restored to its original state as far as is practicable and the entire premises should be in a neat and tidy condition of cleanliness as the Engineer in charge may direct. Any damage done to the permanent or temporary works of TGTRANSCO by the contractor shall be made good at contractor's expenses.

4. SITE STORES :

- The successful bidder shall establish a temporary stores at his cost at the substation site for storing cement, equipment etc. This store should be dismantled and site cleared after the work is completed by him.

5. SITE CONDITIONS :

- The bidder is expected to familiarize with the site conditions and facilities available before quoting.

6. TECHNICAL SPECIFICATION FOR COMMON BUILDING MATERIALS:

- INDIAN STANDARDS:** The aggregates both fine and coarse shall comply with the requirements of I.S.456 for concrete and I.S.383 for sand for use in rendering, plastering and mortar except as hereinafter stated and shall be delivered to and maintained at the site, clean, washed and free from dirt.
- SAMPLES:** Samples shall be submitted to the Engineer and all aggregates used in the work shall be atleast equal to the approved samples.
- FINE AGGREGATE:** The fine aggregate for concrete, shall consist of naturally occurring and graded in accordance with the requirements of IS.383 for grading Zone-2 or grading Zone-3 except that no particle shall exceed 3/16 inch. It shall be free from excessive sharpness. Fine aggregate cement mortar and lime mortar and rendering plastering shall comply with IS 383.
- COARSE AGGREGATE:** Coarse aggregate shall be graded to produce sound concrete and for reinforced concrete shall be such that at least 5% by weight will pass a mesh of a size 1/4 per inch less than the minimum lateral distance between the reinforcing bars or 1/4 inch less than the minimum cover, whichever is smaller.
- WATER FOR CONCRETE:** Clean fresh water shall be used for mixing concrete grout and mortar and curing. The water used for mixing and curing shall be free from deleterious matter and acids and alkaline substances in a solution or suspension. Potable water shall generally be used for mixing and curing concrete.

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- f. **WATER FOR DRINKING:** All potable water shall be free from deleterious matter and shall be equal to or better than the minimum standard acceptable to the local and state authorities. Filtration and chlorination by approved means shall be installed as necessary to obtain the required standard. Storage and distribution of potable water shall be such as to prevent contamination.
- g. **CEMENT:** Cement required for the work have to be supplied by the Contractor as per latest ISS. IS Certification mark is mandatory. Cement procured from Major cement manufacturers such as ACC Limited, Kesoram Cements, orient Cements, Zuari Cements, CCI limited, Andhra Cements, Coromandel Cement, Raasi Cement, Sri Vishnu Cements, Madras cements, Ultra Tech Cement Limited-APCW,KCP Limited, Penna Cements, Panayam Cement, Grasim, Rajashree Cement, Mysore Cement, Century Cement, Ambuja Cement, Priya Cement, Deccan Cements, Dalmia Cements, Parashakthi Cements, Maha Cements shall only be procured . Copies of invoices and test certificates from the cement manufacturers shall be submitted by the contractor to the Engineer and Obtain clearance before actual use. Such clearance will be provided within a maximum period of one week.
- h. **REINFORCEMENT:** Steel required for reinforcement (Manufacturers Such as VSP2, SAIL, TISCO and ISCO) will be procured by the contractor. Copies of invoices and test certificates from the steel manufacturers shall be submitted by the contractor to the Engineer and Obtain clearance before actual use. Such clearance will be provided within a maximum period of one week.
- i. The contractor shall workout the requirement immediately after taking over the site and receipt of working drawings and take the approval of the site Engineer and arrange for procurement.
- 7. **MATERIAL & QUALITY:** All the materials used in the works shall be of the best quality of their respective kinds and specified herein. They shall be obtained from sources and suppliers approved by the Engineer in charge and shall comply strictly with the tests, specified hereinafter or, where tests are not specified in this specification they should conform to the requirements of the latest issue of the relevant Indian Standards hereinafter abbreviated to as (I.S.) or other approved National Standards authorized by the Engineer.
- 8. **INSPECTION AND TESTING:** All the materials used in the works shall be subject to inspection and tests if required by the Engineer in charge. Unless otherwise stated, the cost of all tests required by this specification shall be deemed to be included in the rates and prices named by the contractor in the bill of quantities. Any material which is prepared or manufactured without notice having been given in writing to the Engineer in charge, may be rejected if the Engineer in charge considered that his inspection was necessary during the progress of manufacture of such material.
- 9. **APPROVAL:** No material shall be used in the works unless they have first been approved by the Engineer in charge.
- 10. **TECHNICAL SPECIFICATION FOR CEMENTCONCRETE:**
 - a. **CODE OF PRACTICE:** Except where otherwise specified, described or directed all concrete and reinforced concrete work shall be carried out in accordance with Indian Standard 456 Code of practice for plain and reinforced concrete.
 - b. **GAUGING CONCRETE:** Aggregate shall be measured in proper gauge boxes. When measuring the fine aggregate due allowance shall be made for the moisture content and the bulk adjusted to suit the mix. The methods adopted for gauging the concrete materials shall have the approval of the Engineer.

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- c. **CONCRETE PROPORTIONS:** The concrete shall be of nominal mix as specified in the drawings or in the bill of quantities.
- d. **CONSISTENCY:** The quantity of water used shall be sufficient to produce a dense concrete of adequate workability for its purpose, which will surround and properly grip all the reinforcement.
- e. **CRUSHING STRENGTH:** The crushing strength of the concrete should be as specified in IS.456 for the proposed mixes.
- f. **GAUGING WATER:** The General arrangements for the supply of water for mixing concrete shall be to the satisfaction of the Engineer who will determine the quantity of water to be employed in the mix according to the degree of moisture in the aggregate. The quantity of water thus determined shall be accurately measured for each separate mixing in a suitable container.
- g. **MIXING CONCRETE:** Concrete shall be thoroughly mixed to a uniform consistency in the mixing machines of approved types. Mixing shall continue until the cement is thoroughly distributed throughout the mass, and shall last atleast two minutes or for 80 turns of the mixer after the whole of the water has been added. Any concrete showing signs of initial setting before being deposited shall not be used in the works and shall be removed from the site. The concrete shall be discharged from the mixer on to a level watertight platform or floor or into a water tight receptacle. Normally hand mixing of concrete will not be allowed but where the total quantity of concrete is considerably small, the mixing may be done by hand subject to the approval and entirely at the discretion and satisfaction of the Engineer.
- h. **QUALIFIED ENGINEER:** The contractor shall employ qualified Engineer with a qualification of not less than a degree in Engineering who shall be responsible for all concreting carried out for the works. He shall be available at site at all times when concreting is being carried out.
- i. **CONCRETE IN UNSUITABLE WEATHER:** In the event of rain, storms or other severe weather conditions arising, concreting shall be stopped and appropriate temporary stop ends vee groves etc., placed as may be necessary. To meet such circumstances, the contractor shall always have in readiness on the site approved framed sheeting tarpaulins etc., for the protection of newly placed concrete. Should any concrete be damaged due to rain, streams or other weather conditions, the Engineer may order the cutting out /replacement of the damaged concrete at the expenses of the contractor.
- j. **EXECUTION OF CONCRETE WORK:** Section limits: Concreting shall be carried out in Sections, not exceeding the limits specified for particular work.
- k. **CASTING PROGRAMME:** The contractor's casting programme shall be such that such section of work can be satisfactorily completed in one operation after permission has been given to proceed. No claim for overtime working to complete a casting programme will be entertained.
- l. **CONVEYANCE OF CONCRETE:** The concrete shall be conveyed from the mixer to its place in the works as rapidly as possible and in such a manner that there shall be no separation or loss of the ingredients. In no circumstances shall more than half an hour lapse between the time when water is added to the mix and the time when the concrete is finally consolidated in position. The use of concrete distributing chutes at an angle of more than 45degrees from the horizontal will not be permitted without the prior written sanction of the Engineer. In no case shall concrete be dropped from barrows or otherwise from a height of more than one and half meters. The arrangements to be adopted by the contractor for conveying and depositing concrete shall be subject to the approval of the Engineer.

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- m. **DEPOSITING CONCRETE:** Before any concrete is put in, the contractor shall carryout any filling of pockets or trimming the sides where found necessary to suit the level and line of the concrete to be laid as directed by the Engineer at site. Unless otherwise approved, concrete shall be placed in one operation to the full thickness of members.
- n. **CONSOLIDATING CONCRETE:** Concrete normally shall be consolidated by means of sufficient number of mechanical vibrators. Hand ramming and tamping will only be allowed where specified or by the prior permission of the Executive Engineer. Hand ramming and tamping where permitted shall be sufficient and efficient such as to produce uniform consolidation.
- o. The concrete shall be thoroughly worked all around reinforcement and against shutters so that all entrained air is duly expelled and the concrete surface when stripped be found to be good and free of the formation of air pockets, honey combing or other defects.
- p. The concrete shall be worked into position where placed and not allowed to flow, for sloping beams the work of depositing concrete shall start from the lower end and work upwards.
- q. Except where arrangements, approved by the Engineer are made for placing concrete under water, the areas on which concrete is to be deposited shall be made and kept free from standing water during concreting operations and running water crossing or entering such areas shall be brought under control before concreting is commenced.
- r. **FINISH OF CONCRETE SURFACES:** Immediately any wrought or metal faced for work is struck the surface of the concrete will be inspected by the Engineer and after any remedial work directed or permitted by the Engineer has been completed to his satisfaction, the contractor shall remove all form marks and other imperfections in order to give uniform appearance. The cost of this work shall be included in the rates for concrete.
- s. Floor surfaces shall be worked to a smooth even finish to correct levels of falls as indicated in the drawings or as directed.
- t. Where so directed, concrete floor surfaces shall be treated with silicate of soda grade P.84 diluted with four times its volume of water applied to the work with a watering can or spray and afterwards spread evenly with a mop or brush. Twenty four hours later a second application shall be made and, if any surface still appears porous, further applications of the solution shall be given until the work will absorb no more. Any excess of liquid on the surface after the last coat has been absorbed shall be removed and the surface allowed to dry. When dry it shall be washed with the plain water.
- u. **CURING:** The curing period shall commence immediately after the concrete is finally trowelled or screeded and continued for a period of 21 days. The top and side surfaces of concrete shall be kept moist and be protected from the direct rays of the sun during the period. The contractor shall submit to the Engineer, his proposals for ensuring continuous protection of the concrete during the curing period.
- v. **DEFECTIVE WORK:** Concrete which is defective from any cause what so ever shall, if so directed by the Engineer in charge, be cut out and the work reconstructed at the successful bidder's cost. No concrete thus cut out shall be reused.
- w. The faces of the concrete work shall be sound and solid, free from honey combing. No 'patching' of any concrete facing will be allowed without the express written permission of the Engineer.

Sd/-
Superintending Engineer,
OMC Circle, Adilabad.