

TRANSMISSION CORPORATION OF TELANGANA LIMITED



SPECIFICATION No.: e – SEOMCWGL03/2021-22

STANDARD SPECIFICATION FOR 220KV & 132KV TRANSMISSION PROJECTS

Name of the work: Supply, erection of 1No. (P+0) type intermediate tower in between Loc.No.99 to 100 for improving ground clearance of 132KV Warangal – Kalvasrampur line and 132KV Jammikunta – RTS-B line in OMC Circle, Warangal.

**SUPERINTENDING ENGINEER,
OMC CIRCLE WARANGAL.
220KVSS Warangal premises, Mulugu Road,
P.O. KMC, WARANGAL – 506 007.
Tele & Fax: 0870-2421168
Web site : www.eprocurement.gov.in**

NOTICE INVITING BIDS

1.	Department Name	:	Transmission Corporation of Telangana Limited
2.	Bid Number	:	e – SEOMCWGL03/21-22
3.	Bid Subject	:	Supply, erection of 1No. (P+0) type intermediate tower in between Loc.No.99 to 100 for improving ground clearance of 132KV Warangal – Kalvasrirampur line and 132KV Jammikunta – RTS-B line in OMC Circle, Warangal.
4.	Name of the Project.	:	Supply, erection of 1No. (P+0) type intermediate tower in between Loc.No.99 to 100 for improving ground clearance of 132KV Warangal – Kalvasrirampur line and 132KV Jammikunta – RTS-B line in OMC Circle, Warangal.
5.	Package No.	:	e – SEOMCWGL03/21-22
6.	Estimated Contract Value	:	Rs. 6,33,528.00
7.	Period of Contract	:	3 months (Ref. Schedule –C in Volume-I)
8.	Form of Contract	:	L.S.
9.	Bid Type	:	Open Competitive Bidding
10.	Bid Category	:	Works
11.	Bid Validity	:	120 days from Scheduled Bid submission closing date.
12.	EMD / Bid Security	:	2% of ECV, Rs. 1,26,71.00
13.	EMD/Bid Security Payable to	:	In the shape of Demand Draft in favour of Superintending Engineer/OMC/ TSTRANSCO/Warangal payable at Warangal (or) Bank Guarantee issued by a Nationalized Bank/ Scheduled Bank (as per the list enclosed) in favour of the Superintending Engineer/OMC/ TSTRANSCO/ Warangal and shall cover a period of 45 days over and above the period of bid validity.
14.	Transaction Fee (*)	:	0.03% on ECV (Estimate Contract value) + 18 % GST on transaction fees Rs. 224.00 /- (Refer e-procurement web-site)
15.	Transaction Fee Payable to	:	Payable on line to M/s Vupadi Techno Services Pvt. Ltd, Hyderabad
16.	Schedule Sale opening Date	:	NIT 12 - 04 -2021 at 11:00 AM (IST)
17.	Schedule sale Closing Date	:	NIT 10 - 05 -2021 at 05:00 PM (IST)
20.	Bid Submission Closing Date	:	NIT 10 - 05 -2021 at 05:00 PM (IST)
21.	Bid Submission	:	Online
23.	Bid Opening Date	:	NIT 11 - 05 -2021 at 1:00 PM (IST)
24.	Place of Bid Opening	:	O/o. Superintending Engineer, OMC Circle, TSTRANSCO, Warangal
25.	Officer Inviting Bids	:	Superintending Engineer, OMC Circle, TSTRANSCO, Warangal
26.	Address	:	Superintending Engineer, OMC Circle, Warangal 220KV SS Warangal premises, Mulugu Road, P.O. KMC, WARANGAL – 506 007.
27.	Contact Details/Telephone/Fax	:	Phone / Fax No. 0870-2421168
28.	Eligibility Criteria	:	Refer Clause No. 1 ‘Eligibility Criteria’ of General Terms and conditions of contract of specification Volume-1
29.	Procedure for Bid Submission	:	Refer Instructions to the bidder of specification Volume-1
30.	General Terms & Conditions	:	Refer General Terms and conditions of contract of specification Volume-1 Note: Bidders are requested to go through all the clauses and contents of specification thoroughly and quote the bid. Ignorance of clauses will not be entertained by the purchaser at later date.

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INSTRUCTIONS TO THE BIDDERS

- 1.0 **General:** The TSTRANSCO invites bids for the works mentioned in the NIT and Project Data sheet for which dates and time specified in the NIT and will be opened by either Bid inviting authority or his nominee at his office on the date and time mentioned in the NIT. The details of Bid inviting authority are mentioned in the Project Data Sheet.
- 1.1 The Bids should be in the prescribed form invited on e-procurement as specified in NIT and Bidding documents which can be downloaded free of cost from the website www.eprocurement.gov.in
- 1.2 The dates stipulated in the NIT are firm and under any circumstances they will not be relaxed unless officially extended by TSTRANSCO in e-procurement plat-form.
- 1.3 The e-Procurement application is PKI enabled and supports the digital certificates issued by APTS for signing the bids at the time of submission by bidder. The bidder has to procure the digital certificates issued by APTS Ltd., Hyderabad by following the procedure laid for the same. Digitally signed bids are to be submitted electronically through e-procurement without which the Bid will not be considered for opening.
- 1.4 The intending Bidders would be required to enroll themselves on the 'e'-procurement market place at www.eprocurement.gov.in. If the bidders intend to know the procedure of bid submission on e-procurement platform, suitable training will be given by M/s Vupadi Techno Services Pvt. Ltd., Hyderabad. The bidder would be required to register on the e-procurement market place www.eprocurement.gov.in and submit their bids online.
- 1.5 The Bidder should upload scanned copies as specified in checklist and all enclosures required for the schedules and Appendices. The bidder should produce the originals of all uploaded documents for verification if asked for by the Competent Authority within 3 (Three) days.
- 1.6 The uploading of bids on-line through e-procurement cannot be possible after expiry of due date and time and Bid opening Authority will not consider any requests for extension.
- 1.7 **Transaction fee:** The Transaction fee at 0.03% on ECV (Estimate Contract value) of work plus 18% GST on transaction fees shall be payable by electronic Payment on e-Procurement platform, which provides a facility to participating suppliers/ contractors to electronically pay the transaction fee from the platform, using their credit cards. The Payment Gateway accepts all Master and VISA credit cards issued by any bank. The payment of transaction fee online is mandatory for participating in the bidding.
- 1.8 Successful Bidder shall pay the Corpus fund to TSTS @ 0.04% on ECV in the form of DD payable at Hyderabad and drawn in favour of MD, TSTS, Hyderabad to sustain 'e' procurement initiatives, research and development of software application for automation for process in user departments.
- 1.9 The successful Bidder is expected to complete the work within the time period specified in the Schedule – C .
- 1.10 TSTRANSCO reserves the right to cancel/extend/alter the bid conditions at any time. In the process, if the tender process / works are stalled due to legal intervention or due to natural calamities, no compensation will be paid.

2.0 Bidders / Firms eligible to Bid:

The Bidders / Firms who

- i) Possess the valid registration and satisfies all the conditions therein.
- ii) Are not blacklisted or debarred or suspended by the Government /any power utility for what ever the reason, prohibiting them not to continue in the contracting business.
- iii) Have complied with the eligibility criteria specified in the Clause 3 of General Terms & Conditions Section -1 of this Specification are the eligible Bidders /Firms.

2.1 Bidders / Firms ineligible to Bid:

- (i) A retired officer of the Govt. of TS (or) AP or Govt. of India or TSTRANSCO/TSDISCOMS is disqualified from tendering for a period of two years from the date of retirement without the prior permission of the Parent Department. The contractor shall intimate the list of his employees who were retired from Government/TSTRANSCO/TSDISCOMS along with the permission possessed from parent department.
- (ii) The Bidder who has employed any retired officer as mentioned above shall be considered as an ineligible Bidder.
- (iii) The contractor himself or any of his employee is found to be Gazetted Officer who retired from Government Service and had not obtained permission from the Government for accepting the contractor's employment within a period of 2 years from the date of his retirement.

- (iv) The Contractor or any of his employees is found at any time after award of contract, to be such a person who had not obtained the permission of the Government as aforesaid before submission of the Bid or engagement in the Contractor's service.
- v) Contractor shall not be eligible to Bid for works in TSTRANSCO where any of his near relatives are employed in the rank of Assistant Engineer or Assistant Executive Engineers and above on the Engineering side and Assistant Accounts Officer and above on the accounts side. The Contractor shall intimate the names of persons who are working with him in any capacity or are subsequently employed. He shall also furnish a list of TS Transco/TS Discoms Employees related to him. Failure to furnish such information Bidder is liable to be removed from the list of approved contractors and his contract is liable for cancellation.

Note: Near relatives include

- a) Sons, step sons, daughters, and step-daughters.
- b) Son-in-law and daughter-in-law.
- c) Brother-in-law and sister-in-law.
- d) Brothers and Sisters.
- e) Father and Mother.
- f) Wife / Husband.
- g) Father-in-law and Mother-in-law
- h) Nephews, nieces, uncles and aunts
- i) Cousins and any person residing with or dependent on the contractor.

3.0 Documents to be furnished for Qualification requirements of the Bidders:

- 3.1 The Bidder shall furnish the following particulars in the formats provided online and supported documentary evidence shall be uploaded.

Attested copies of documents relating to the Registration of the firm, Registration as Electrical Licensed Contractor, Partnership deed, Articles of Association, Commercial Tax Registration / VAT / TIN number, Latest Income Tax Clearance certificate / PAN number from IT Department, service tax registration, excise department registration certificates, Labour department registration etc.

Note: The Partnership firms, which are registered as Contractors shall intimate the change in partnership deed, if any, as per GO Ms No.58, I & CAD, dt.23.4.2002 within one month of such change. Failure to notify the change to the registration authority in time will entail the firms to forfeit their registration and their Bid will be rejected. The intimation of change of partners if any and the acceptance by the Registration authority may be enclosed. Further the change if any in the official address, phone/fax numbers etc., shall be intimated.

- 3.2 Availability of key personnel for administration /site management and execution viz., technical personnel required for the work.
- 3.3 Qualification criteria for opening of the bid: Bidders qualified in the Technical /Pre qualification Bid if they meet the requirements as per clause no. 3 'Qualification Requirements' of Section -I
- 3.4 Even though the Bidders meet the above qualification requirements, they are liable to be disqualified / debarred / suspended / blacklisted if they have
 - a) Furnished false / fabricated particulars in the forms, statements and /annexures submitted in proof of the qualification requirements and/or
 - b) Not turned up for entering into agreement, when called upon with in the time specified in the letter of acceptance
 - c) Record of poor progress such as abandoning the work, not properly completing the contract, inordinate delays in completion, litigation history or financial failures etc., and
 - d) A history of criminal record in which the Bidder is involved if any.
 - e) History of litigation with Government/TSTRANSCO during the last 5 years in which the Bidder is involved.
- 3.5 Even while execution of the work, if found that the work was awarded to the Contractor based on false /fake certificates of experience, the Contractor will be blacklisted and work will be taken over.
- 3.6 The bidders shall submit a written Power of Attorney authorizing the signatory of the bid to commit on behalf of the bidder.

3.7 **Bidders are advised to find out the latest tax structure, applicability and rates before quoting. Further to reduce the billing difficulties, bidders are advised to round-off the basic prices and F & I to the nearest Rupee and taxes and duties to nearest two decimal places by using 'Round' formula in Excel sheets.**

3.8 **SITE VISIT:** The bidders are advised to visit and examine the site of proposed Substations and the route of transmission line and obtain all information that may be necessary for preparing the bid such as access to site, communication, transport, leads / and availability for water, sand, metal etc., right of way, the quantity of various items of work, the availability of local labour, availability and rates of materials, local working conditions, uncertainties of weather and period of crops and working seasons etc. The cost of visiting the site shall be at bidder's own expense. Ignorance of site conditions shall not be accepted by the Purchaser as basis for any claim for compensation at a later date. The submission of a bid by the bidder will be construed as evidence that such an examination was made and later claims/disputes in this regard shall not be entertained.

3.9 It is the responsibility of the bidder to satisfy himself that sufficient quantities of construction materials required for the works shall exist in the borrow areas or quarries sites. The TSTRANSCO does not accept any responsibility either in identifying the quarries or procuring the material or any other facilities in this regard. The bidder will not be entitled for any extra cost /rate or claim for the misjudgment on his part for quantity and quality of materials available in the quarries.

4.0 SUBMISSION OF BIDS :

The bidders who are desirous of participating in 'e'- procurement shall submit their bids in the standard formats prescribed in Bid documents, displayed at 'e'- market place. The bidders should upload the scanned copies in support of their bids. Bidder should take care that the scanned copies are clear & visible. The bidders shall sign on all the statements, documents, certificates, being uploaded by them, owning responsibility for their correctness / authenticity.

If any bidder uploads the bid without paying BID SECURITY, the bid will be rejected and the bidder will be black listed. Similarly, if any of the certificates, documents, etc., furnished by the bidder is/are found to be false / fabricated / bogus, the bidder will be blacklisted and his BID SECURITY forfeited.

The bids shall be uploaded on e-procurement platform with all particulars called for in the schedules enclosed to specification. Bid rates shall be furnished in the enclosed schedules only. There shall not be any deviation from the contents, description and quantity of the schedule. If the required documents, schedules, forms, supporting documents for Qualifying Requirements (both physical & Financial) are not uploaded on e-platform, the bid will be liable for rejection.

The information sought-for under schedules regarding qualification, financial status etc., shall be uploaded duly filling by typewritten in the formats attached, without interlineations, alterations or modifications. The bidder shall sign all pages of the bid and at the modification / correction before uploading.

Standard printed conditions uploaded along with the bid will not be considered or accepted. Deviations from the provisions of the specification will not be considered.

It is the responsibility of the Bidder to upload all the scanned documents, Schedules, formats and other documents in the PDF format only. For the Price Bid Schedule-B, the bidder shall enter in the downloaded commercial bid in XL file and the same file has to be uploaded. The Quantities and description against the items of the Schedule-A shall not be modified. It is the responsibility of the Bidder to upload all the documents required to prove regarding his responsiveness to participate in this bidding as per the Qualification Requirements.

The bids once submitted on e-procurement platform can not be with drawn after scheduled bid submission closing date and also during bid validity period.

If any bid is with drawn during the above period the bidder will be blacklisted apart from forfeiting of bid security.

4.1 **Submission of Price Bids:** The estimated value of the works is given in the Schedule-A. The Bidder has to quote in Schedule-B, the percentage excess/ on par/ less on the total estimated value of the works given in the Schedule-A.

4.2 (i) As per G.O. Ms. No. 174 dated 01-09-2008 of I & CAD (PWR) submission of original hard copies of the uploaded copies of DD towards EMD and other certificates & documents by participating bidders to the tenders inviting authority is dispensed herewith.

- (ii) All the bidders shall invariably upload the scanned copies of DD in e-procurement system and this will be the primary requirement to consider the bid as responsive.
- (iii) The Department shall carry out the bid evaluation solely based on the uploaded certificates/documents, DD towards EMD in the e-procurement system and open the bids of the responsive bidders.
- (iv) The Department will notify the successful bidder for submission of original hard copies of all uploaded documents DD towards EMD prior to entering into agreement.
- (v) The successful bidder shall invariably furnish the original DD towards EMD, certificates/ documents of the uploaded scanned copies to the Tender inviting authority before entering into agreement either personally or through courier or post and the receipt of the same with in the stipulated date shall be the responsibility of the successful bidder. The department will not take any responsibility for any delay in receipt/non receipt of original DD towards EMD, certificates/documents, from the successful bidder before the stipulated time. On receipt of documents the department shall ensure the genuinity of the DD towards EMD and all other certificates/documents uploaded by the bidder in e-procurement system in support of the qualification criteria before concluding the agreement.
- (vi) If any successful bidder fails to submit the original hard copies of uploaded certificates/ documents, DD towards EMD with in the stipulated time or if any variation is notices between the uploaded documents and the hard copies submitted by the bidder, the successful bidder will be suspended from participating in the tenders on e-procurement plat form for a period of 3 years. Besides this, TSTRANSCO the department shall invoke all processes of law including criminal prosecution of such defaulting bidder as an act of extreme deterrence to avoid delays in the tender process for execution of the development schemes taken up by the Government.

4.3 Bids will be opened at the time, date and place indicated in the NIT.

4.4 The bidders shall carefully examine the specification and all its enclosures and if they have any doubt as to the meaning of any portion of the specification or enclosures thereto, they shall obtain the required clarifications from the officer to whom the bids are to be addressed.

4.5 **THE BIDS RECEIVED BY, OTHER THAN E-PROCUREMENT PLATFORM SHALL NOT BE ENTERTAINED UNDER ANY CIRCUMSTANCES.**

4.6 Clarifications, amplifications, and/or any other correspondence from the bidder subsequent to the opening of bid will not be entertained. The bidders are therefore advised to ensure that their bids are uploaded in complete shape in the first instance itself. Post bid rebates, revisions or deviation in quoted price and/or conditions or any such offers which will give benefit to the bidder over others will not only be rejected straight but the original bid itself will get disqualified on this account and the bidder's bid security amount will be forfeited.

4.7 COMPLETENESS OF BID:

- a) The bid shall be quoted for all the works & all the items as per the bid specification.
- b) Part bids or incomplete bids will not be accepted and will be rejected.

5.0 i) Contents of the specification:

- a) Instructions To Bidders
 - b) General Terms & Conditions (Section-I)
 - c) Financial Terms & Conditions (Section-II)
 - d) Schedules (I – VI)
 - e) Check List (VII)
 - f) List of approved Manufacturers
 - g) List of approved Banks

 - h) Price Schedules for Works (Schedule –A)
 - i) Financial Bid/Price Bid (Schedule – B)
 - j) Completion period (Schedule – C)
 - k) List of makes of the materials proposed to supply if the contract is awarded (Schedule-D)
 - l) Notice Inviting Bid
 - m) Project Data sheet
- } in separate xl file

ii) Formats

- A) Bank Guarantee proforma for Bid Security
- B) Bank Guarantee proforma for performance security.
- C) Bid form
- D) Format for Bank's Certificate for credit facilities

iii) Schedules: To be filled up and furnished along with the bid.

a) Particulars of Registration	:	Schedule-I
b) Details of Technical personnel	:	Schedule-II
c) Under taking with regards to the qualification requirements	:	Schedule-III
d) Undertaking regarding relatives	:	Schedule-IV
e) Declaration for taking up awarded works	:	Schedule-V
f) Bank A/c. details	:	Schedule-VI
g) Check List	:	Schedule-VII
h) Price Schedules of Works	:	Schedule-A
i) Price Bid	:	Schedule-B
j) Completion Period	:	Schedule-C

Technical Specifications:

- a) Schedule-A of estimated Rates
- b) Schedule-B to quote +/- % on the Estimate value



In separate word files
& excel files.

NOTE:

1. ***This office is not responsible for any omissions in the bid specification down loaded by the bidders from the web site.***
2. ***The bidders can verify the accuracy of the down loaded bid specification with the master copy available at the office mentioned in the Project Data Sheet.***
3. ***The bidders are requested to check / verify the web site before scheduled closing date for any changes/ amendments in the tender.***

- - - TABLE OF CLAUSES - - -SECTION – I :: GENERAL

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1.	Definition of terms
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5.	General
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4.3	Awarding contract for the bidders who already has major
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5.	Bid security
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8.	Notification of award and acknowledging:
9.	Service conditions
10.	Sub contractor and sub orders
11.	Power to vary or omit work
12.	Execution of works relating to power line crossings and railway crossings:
13.	Electricity rules:
14.	Regulation of local authorities and statutes
15.	Co-ordination with statutory bodies and other agencies
16.	Co-operation with other contractors
17.	Contractor's cooperation with the purchaser
18.	Employment of technical staff for supervision, skilled and unskilled labour
19.	Liability for accidents to persons:
20.	Liability for damage to works and plants:
21.	Approval of sub-vendors for equipment / materials
22.	Quality assurance plan:
23.	Quality control & inspections
24.	Time control
25.	Management /co-ordination meetings
26.	Site stores
27.	Contractor's site office
28.	Clearing up the site
29.	Change orders
30.	Water & power
31.	Operation and maintenance manuals:
32.	Safety plans
33.	Bill of materials:
34.	Photographs and progress report
35.	Measurement of work and progress payments
36.	Protection of work
37.	Fire protection
38.	Security (watch & ward)
39.	Testing and commissioning
40.	Indemnity bond for all materials
41.	Accounting of surplus materials/ settlement of material account
42.	Final account
43.	Taking over

SECTION – I: GENERAL

The Transmission Corporation of Telangana Limited, hereinafter referred to as the TSTRANSCO, invites bids for the Works as mentioned in the **NIT** and **PROJECT DATA SHEET** of this Specification.

1. DEFINITION OF TERMS:

In the contract, the following expression shall, unless the contract otherwise requires, have the meanings hereby respectively, assigned to them.

- I) The 'Purchaser/Employer' shall mean the Transmission Corporation of Telangana Limited and shall include its successors and permitted assigns.
- II) The 'Bidder' shall mean who are submitted their bids to TSTRANSCO.
- III) The 'Contractor' shall mean the bidder whose bid has been accepted by the purchaser and shall include the bidder's heirs, legal representatives, and successors and permitted assigns.
- IV) The 'Manufacturer' shall mean the firm/company named in the contract, to whom the supply of material/ equipment is entrusted by the contractor.
- V) The 'Engineer' shall mean the officer placing the order for the work with the Contractor and such other officer as may be authorized and appointed in writing by the Purchaser to act as Engineer for the purpose of the Contract and in case no such officer has been so appointed, the purchaser or his duly authorized representative.
- VI) The 'Supervising Engineer' shall mean such officer as may be duly appointed from time to time by the Purchaser or his Engineer to take general control and supervision of work.
- VII) The 'Inspector' shall mean any person or persons nominated by the Purchaser and/or the Engineer to inspect stores or works under the agreement and/or his duly authorized representative appointed to act as the Inspector.
- VIII) The 'Contract' shall mean and include the bid and acceptance thereof, the general conditions, special conditions, Specifications, Schedules, drawings, Form of Bid, covering letter, schedules of prices, the final General conditions and the format Agreement executed on the stamped paper.
- IX) The 'Specification' shall mean collectively all the terms, stipulations, and conditions of contract, technical provisions and annexure thereto and list of corrections and amendments mutually agreed upon from time to time in writing.
- X) 'Tests on completion' shall mean such tests, as are prescribed by specification, to be made by the Contractor to the satisfaction of the purchaser before the work is taken over by the Purchaser.
- XI) 'Commissioning' shall mean the satisfactory operation of the equipment/work as specified, after all necessary initial tests, checks and adjustments required at site, if any, have been satisfactorily completed and the equipment / works have been in continuous and uninterrupted commercial use for at least 30 days.
- XII) 'Commercial use' shall mean the use of the work, which the contract contemplates or of which it is commercially capable.
- XIII) 'Approval' shall mean the written approval of the Engineer and of the statutory authorities wherever such authorities are specified by any codes or otherwise.
- XIV) 'Month' shall mean calendar month.
- XV) 'Writing' shall include any manuscript, typewritten or printed, statements, under or over signature or seal as the case may be.
- XVI) 'Letter of Intent' shall mean the purchaser's letter conveying his acceptance of the bid, subject to such reservations as may have been stated therein.
- XVII) 'ECV' shall mean Estimated Contract Value.
- XVIII) 'RTGS' shall mean Real Time Gross Settlement.

2. SCOPE OF THE CONTRACT: The brief description of work/ project is mentioned in the NIT and Project Data Sheet. The detailed scope of work/ project is as per the schedules enclosed and as per the technical specification.

3. QUALIFICATION REQUIREMENTS:

3.1 Physical Experience Requirements: For awarding this work the bidder should meet the following Criteria.

3.2 a) The bidder should have valid 'A' Grade electrical license issued / recognized by Government, for executing the electrical works related to Extra Higher voltages.

b) the bidder should be a valid registered contractor with TSTRANSCO.

3.3 **The bidder in his name must carry out at least one similar type of work in last five financial years(Erection of transmission lines).**

The bidder shall meet the qualification requirements mentioned notified item. The bidder should furnish documentary evidence in support of the qualifying requirements stipulated as above certified by **"an officer not below the rank of Executive Engineer or equivalent cadre of state Power utility/Government Organizations."**

3.4 Responsibility for correctness of the information submitted in the bid lies with bidder. If any information furnished in the bid is proved to be false at a later date, the bid will not only be rejected but the bidder will be **BLACKLISTED**.

4.1 PERFORMANCE BASED EXPERIENCE:

In case of any bidders who are already having one or more works awarded to them by TSTRANSCO which are under execution at the time of bidding and who fails to execute the works already awarded as per the stipulated time schedule of completion, bids of such bidders will not be considered.

4.2 AWARDING CONTRACT FOR MORE THAN ONE WORK

In case of contractors quoting more than one work in same tender, the aggregated requirement of turnover will be counted and work will be awarded if both the above aspects are satisfied for awarding more works at a time.

5. BID VALIDITY:

120 days from the Bid submission closing date. Bids having validity less than **120 days** are liable for rejection at the discretion of Transmission Corporation of Telangana Limited.

6. BID SECURITY

The bidder has to upload the scanned copy of bid security for the amounts as indicated in the 'Notice Inviting Bids'. In the absence of indicating the same in Bid notice, the bidder has to furnish the amount specified in the NIT as bid security. The bid security shall be in the form of a Demand Draft.

The amount towards bid security will not be accepted by cheque, cash or money order. It shall be paid by way of Crossed Demand Draft on any approved Bank as per the list enclosed, drawn in favour of the Superintending Engineer /OMC/Warangal, payable at Warangal.

BIDS ON E-PROCUREMENT PLATFORM, WHICH DO NOT CONTAIN THE SCANNED COPY OF BID SECURITY, WILL BE REJECTED AND THE BIDDER WILL BE BLACKLISTED WITHOUT ANY CONSIDERATION WHAT SO EVER. Bids with insufficient value or validity of bid security will be rejected without consideration whatsoever. The TSTRANSCO will not be responsible for any omissions in this regard on the part of the bidders, which result in the rejection of the bids and the bidders will be blacklisted by the TSTRANSCO.

The Bid security of the successful Bidder on his request can also be adjusted as part of Security deposit and the balance security deposit shall be paid at the time of concluding Agreement by the successful Bidder provided the bidder extends the validity of the bid security bank guarantee suitably.

The Bid Security will be forfeited in the following cases.

- i) When the successful bidder does not accept the order after issue of preliminary acceptance letter or the Letter of Intent.

- ii) When the successful bidder fails to furnish the Performance Security within 15 days from the date of issue of preliminary acceptance letter or the Letter of Intent.
- iii) When a bidder withdraws his bid or alters the prices after schedule bid submission closing date and before the expiry of the bid validity period or does not accept the correction of errors made in his bid or Offers post Bid rebates, revisions or deviations in quoted prices and / or conditions or any such offers.

7. DISCREPANCIES: If a discrepancy arises between

- i) The total lump sum rate quoted in the e-procurement platform and in the Schedule-B, the total lump sum rate quoted in the e-procurement platform will govern.

The bidder shall show the total schedule with out fail. Corrections if any shall be made by crossing out, initialing, dating and rewriting.

8. EVALUATION OF BIDS: The bids will be opened on-line by bid inviting authority or his assignee at the time and date specified in the Bid documents.

Physical and Financial capacities of all the bidders will be evaluated based on the documentary evidence furnished along with the bid. No correspondence will be entertained after opening of the bids. Evaluation of Technical/ Commercial and Price bids will be made based on the available documentary evidence submitted along with the bid. If any information furnished in the bid is proved to be false later, the bid will not only be rejected but the bidder will be black listed.

If any significant discrepancies are observed in the Technical/Price schedules of any bid, due to which the bidder becomes lowest and withdraws the bid, the bid will be liable for rejection and forfeiture of Bid security and also liable for black listing of the bidder.

The Bids are liable for rejection for any of the deviations mentioned below.

- (a) No Bid Security or Insufficient Value or Validity of Bid Security
- (b) Insufficient Validity of the Bid.
- (c) Non-uploading of the required documents, schedules, forms, supporting documents for Qualifying Requirement. Insufficient or illegible supporting documents, schedules, forms.
- (d) Deviation from the Delivery schedule of the Specification.
- (e) Deviation from the Payment terms of the Specification.
- (f) Deviation from the General terms and conditions
- (g) Deviation from the Technical Specification.
- (h) Non-Compliance with the Qualifying Requirements.
- (i) Record of Poor Performance in the previous / on-going works. Record of poor progress i.e. abandoning the work, not properly completing the contract, inordinate delays etc.
- (j) Record of Black listing in any other Power Utilities / Government Department.
- (k) Record of financial failures if any.
- (l) History of litigation with Government/TSTRANSCO during the last 5 years.
- (m) History of criminal record in which the Bidder is involved.
- (n) Non-uploading of the Price schedules. Insufficient or illegible Price Schedules. Change of Quantities / Description of the work / materials items in the Price Schedule uploaded by TSTRANSCO.
- (o) Furnishing of false / fabricated particulars in the forms, statements and annexure, submitted in proof of the qualification requirements.
- (p) Not turned up for entering into agreement, when called upon with in the time specified in the letter of acceptance.
- (q) Any other deviations of clause mentioned in this specification.

While being equal or compatible in other aspects preference will be given to those bidders who have good experience / proven performance, past experience is superior in terms of quality and timely completion in similar works.

It is the sole discretion of TSTRANSCO regarding finalization of the bids. Mere quoting and becoming of L1 (Lowest quoted) bidder shall not automatically entitle any rights for any bidder for award of contract. The past performance of the contractor and performance of the contractor in the ongoing works shall be taken in to account while finalizing the bids. The TSTRANSCO reserves its right to reject any or all the bids and not to accept the lowest or any other without assigning reasons. The TSTRANSCO reserves its rights to cancel the tender at any stage without assigning the reasons.

9. NOTIFICATION OF AWARD AND ACKNOWLEDGING:

- a) The Bidder who's Bid has been accepted will be notified, the award of the work by Bid inviting authority prior to expiration of the Bid validity period by registered letter / Fax. This letter (hereinafter and in the Conditions of Contract called "Letter of Acceptance") will indicate the sum that the Corporation (TS Transco) will pay the Contractor in consideration of the execution, completion, and maintenance of the Works by the Contractor as prescribed by the Contract (hereinafter and in the Contract called the "Contract Amount").
- b) When a Bid is to be accepted, the concerned Bidder shall attend the office of the Bid inviting authority on the date fixed in the Letter of acceptance. Upon intimation being given by the Bid inviting authority, of acceptance of his Bid, the Bidder shall make payment of the balance Security Deposit and additional security deposit wherever needed by way of Demand Draft or unconditional and irrevocable Bank Guarantee obtained from approved Bank with required validity period and sign an agreement in the form prescribed by the department for the due fulfillment of the contract. Failure to attend the office of the Bid inviting authority, on the date fixed, in the written intimation, to enter into the required agreement or failure to submit the Performance and Additional Securities as intimated in Letter of Acceptance shall entail forfeiture of the Earnest Money deposited. The written agreement to be entered into between the Contractor and the Bid inviting authority or his nominee shall be the foundation of the rights and obligations of both the parties and the contract shall not be deemed to be complete until the agreement has first been signed by the contractor and then by the proper officer authorized to enter into contract on behalf of the Transmission Corporation of Telangana Limited.
- c) The successful Bidder has to sign and return a copy of the detailed contract within a period of 15 days from the date of issue of contract award letter.

10. SERVICE CONDITIONS:

The Substation / Transmission Line will be operating under the following tropical conditions.

i)	Humidity	-	60 to 80%
ii)	Max.isoceraunic level	-	40 thunder storm days per year.
iii)	Max.temperature in shade	-	45 Deg.C
iv)	Min.temperature in shade	-	10 Deg.C
v)	Max.temperature in sun	-	55 Deg.C
vi)	Altitude above sea level	-	550 meters to 1000 meters.

Due consideration will be given to any special devices or attachments, put forward by the bidder which are calculated to enhance the general utility and the safe and efficient operation of the line.

11. SUB CONTRACTOR AND SUB ORDERS:

The successful Bidder shall carry out all the works mentioned in the schedules by their company only. **Sub contracting or sub ordering is not allowed by TSTRANSCO.**

- 12 **POWER TO VARY OR OMIT WORK:** No alterations, amendments, omissions or variations of the works under the contract shall be made by the contractor except as directed in writing by the TSTRANSCO, but the TSTRANSCO shall have full powers to instruct the contractor by notice in writing to make such variations without prejudice to the contract. The contractor shall carry out such variations and be bound by the same conditions as far as applicable as though the said variations occurred in the contract documents. If any suggested variations would, in the opinion of the contractor, if carried out, prevent him from fulfilling any of his obligations under the contract, he shall notify the TSTRANSCO thereof in writing and the TSTRANSCO shall decide forthwith whether or not, the same shall be carried out and if the TSTRANSCO confirms its instructions, contractor's obligations shall be modified to such an extent as may be mutually agreed. Any agreed difference in cost occasioned by any such variation shall be added to or deducted from the contract price as the case may be.

TSTRANSCO reserves the right to allot any surplus materials from TSTRANSCO stores to this project (even though the scope of specification covers supply of materials) duly omitting that part of materials from Schedule-A. In such cases transportation shall be carried out by the Contractor and transporting charges shall be paid as per clause (3) Section-II Financial 'Supplemental Quantities / Items'. The bidders shall supply only the balance materials required after allotment of such materials.

13. EXECUTION OF WORKS RELATING TO POWER LINE CROSSINGS AND RAILWAY CROSSINGS:

Works such as erection of towers underneath an existing power line and paving out of conductors and earth wire and stringing the power line crossing span or a railway crossing span, will have to be done only after receipt of approval from the concerned officer, which, sometimes, may not match with the program of the contractor. In such cases, the contractor shall execute such works as and when approvals are received. His rates for tower erection and stringing shall take into consideration, such contingencies also.

14. ELECTRICITY RULES:

All works shall be carried out in accordance with the relevant clauses of the Indian Electricity Act and Rules unless modified by this specification. In case of variation between the two, the latter shall be binding on the contractor. Unless otherwise specified, works shall be carried out in accordance with the Indian Electricity Act, Electricity Rules or any revisions thereof, which may be issued during the currency of the contract and the requirements of any other Regulations and Acts in India to which the TSTRANSCO may be subjected to.

All railway tracks, communication lines or other important track crossings and routing the line through Air field region shall conform to the relevant rules and procedures as may be laid down by Railway, Communications, Aviation or other concerned authorities from time to time.

Aviation signals will have to be provided at the top of the transmission line towers in the vicinity of civil and military aerodromes or airfield regions, if any. Similar provisions will have to be made on the special river crossing towers. The rates for tower erection shall include such works also.

15. REGULATION OF LOCAL AUTHORITIES AND STATUTES

- i) The CONTRACTOR shall ensure compliance with all statutes laws of India, rules and regulations of the Central or State Government or any other authority such as the Workmen's Compensation Act 1923, Payment of Wages Act, Minimum Wages Act 1948, Employees State Insurance Act, Employees Provident Fund Act, etc., and any statutory modifications thereof in connection with employees engaged by him in the work. The contractor's offer shall be presumed to include financial liabilities arising from the above and the purchaser shall not be liable for any extra costs on this account.
- ii) The CONTRACTOR shall conform to the provisions of Indian Boiler Regulation, Factory Laws, Indian Electricity Act and rules made there under, and any other acts of legislature relating to the work and to the regulations and bye-laws of any authority and of any matter, lighting and other companies and/or authorities with whose systems the plant/structure proposed to be connected and shall, before making variations from the drawings or specifications may be necessitated by so conforming, give to PURCHASER/ENGINEER written notice, specifying the variations proposed to be made and the reason for making it and apply for instructions thereof.
- iii) The CONTRACTOR shall arrange to give all notices required by the said Acts, Regulations or Bye-laws to be given to any Authority or to any Public Officer and pay all fees that may be properly chargeable in respect of the 'Works' and lodge the receipts with the PURCHASER/ENGINEER, unless otherwise specified. Obtaining all permits and licenses required thereupon shall be the responsibility of the CONTRACTOR.
- iv) All registration and statutory inspection fees, if any, in respect of his work pursuant to this 'Contract' shall be to the account of the CONTRACTOR. However, any registration, statutory inspection fees lawfully payable under the provisions of the Indian Boiler Regulations and any other statutory laws and its amendments from time to time during erection in respect of the plant and equipment ultimately to be owned by the PURCHASER shall be to the account of the PURCHASER. Should any such inspection or registration need to be re-arranged due to the fault of the CONTRACTOR or his VENDOR, the additional fees for such inspection and/or registration shall be borne by the CONTRACTOR.

16. CO-ORDINATION WITH STATUTORY BODIES AND OTHER AGENCIES

The Contractor is fully responsible for carrying out all co-ordination and liason work to be required with Electrical inspectors, Factory inspector and other statutory bodies for implementation of the work. The application on behalf of the Purchaser for submission to the electrical inspector and other statutory bodies along with copies of drawings complete in all respects shall be done by the Contractor and approval/ certificates taken well ahead of time so that the actual commissioning of equipment/ materials is not delayed for want of inspection and approval by the inspector and statutory bodies. The actual inspection work by the electrical inspector shall be arranged by the Contractor. However, any fees paid to electrical inspector/ statutory bodies, etc., in this regard shall be borne by the Purchaser. Any modification on the installation suggested by the electrical inspector or any other statutory authority shall also be carried out by the contractor at no extra cost by the Purchaser.

17 **CO-OPERATION WITH OTHER CONTRACTORS**

The Contractor shall co-operate with all other contractors or tradesmen of the Purchaser, who may be performing other Works on behalf of the Purchaser and the workmen who may be employed by the Purchaser and doing work in the vicinity of the Works under the contract. The Contractors shall also so arrange to perform his work as to minimise, to the maximum extent possible, interference with the work of other contractors and their workmen. Any injury or damage that may be sustained by the employees of the other contractors and the Purchaser, due to the Contractor's work shall promptly be made good at his own expense.

The purchaser / Engineer shall determine the resolution of any difference or conflict that may arise between the Contractor and other contractors or between the Contractor and the workmen of the Purchaser in regard to their work. If the Works of the Contractor is delayed because of any acts or omissions of another contractor, the Contractor shall have no claim against the Purchaser on that account other than an extension of time for completing his Works. However extension of time will be considered after examination of its merits and at the discretion of the purchaser.

18 **CONTRACTOR'S COOPERATION WITH THE PURCHASER**

In cases where the performance of the erection work by the CONTRACTOR affects the operation of the system facilities of the PURCHASER/ENGINEER, such erection work of the CONTRACTOR shall be scheduled to be performed only in the manner stipulated to be performed by the PURCHASER/ ENGINEER and the same shall be acceptable at all times to the PURCHASER/ ENGINEER. It will be the responsibility of the CONTRACTOR to provide all necessary temporary instrumentation, measuring devices and all other material/ arrangements required during the work for proper functioning of the equipment.

The CONTRACTOR at all times shall work in coordination with the PURCHASER/Engineer's staff and offer them all reasonable facilities to become familiar with the erection, operation and maintenance of the equipment.

In respect of observations of local rules, administrative orders, working hours etc., the CONTRACTOR and his personnel shall cooperate with the PURCHASER/ENGINEER.

19. **EMPLOYMENT OF TECHNICAL STAFF FOR SUPERVISION, SKILLED AND UNSKILLED LABOUR:**

The contractor shall provide experienced, technically qualified supervising Engineers for the supervision. The Chief Supervising Engineer of the contractor or his agent shall have full power as the representatives of the contractor who can negotiate at site in regard to execution of the contract. The minimum qualification of site Engineer is a degree in Engineering. The contractor must make his own arrangements for recruiting skilled, semi- skilled and un-skilled labour in sufficient numbers. The contractor shall engage only competent skilled workers. The Executive Engineer/ In-charge of the work will have the right to remove any skilled worker employed by the contractor, if found not suitable.

The contractor shall employ following Technical Staff indicated against each work.

Work	Technical Personnel to be employed by the Contractor
220 kV or 132 kV Sub-Station or Switching Station	1 B.Tech / B.E Electrical +1 B.Tech / B.E Electrical + 1 Diploma Electrical
220 KV or 132 kV Line	1 Diploma Electrical +1 Diploma Civil
220kV/132 kV bays	1 Diploma Electrical +1 Diploma Civil

In case of failure of the contractor to employ technical staff during execution as above, recovery shall be made from his bills at Rs. 10,000/- per month for each work, besides other penal action.

The contractor shall make his own arrangements for engagement of all labour, local or otherwise, their transportation, housing, feeding and payment thereof, in accordance with labour law, unless the contract otherwise provides. No idle labour payment will be made to the contractor.

19.1 **FACILITIES TO WORKERS**

Minimum facilities for workers as per Factory Act and other relevant acts shall be provided for by the CONTRACTOR.

If the CONTRACTOR fails to do so, the same shall be provided by the Purchaser and deducted the same from the CONTRACTOR'S bills.

First-Aid

The Contractor shall provide necessary first-aid facilities for all his employees, representatives and workmen working at the Site. Enough number of Contractor's-personnel shall be trained in administering first-aid.

Cleanliness

The CONTRACTOR shall be responsible for keeping the entire area allotted to him clean and free from rubbish, debris etc., during the period of 'Contract'. The CONTRACTOR shall employ enough number of special personnel to thoroughly clean his work area. All such rubbish and scrap material shall be stacked or disposed in a place to be identified by the PURCHASER/ENGINEER. Materials and stores shall be so arranged as to permit easy cleaning of the area. Similarly, the offices of the CONTRACTOR shall be kept clean and neat to the entire satisfaction of the PURCHASER/ENGINEER. Proper sanitary arrangements shall be provided by the CONTRACTOR, in the work areas and office of the CONTRACTOR and residential colonies. If contractor fails to comply with these requirements inspite of instructions from the Purchaser, the areas will be cleaned by the Purchaser at contractor's cost and the cost of the same will be deducted from the contractor's due amounts.

20. LIABILITY FOR ACCIDENTS TO PERSONS:

- a. The contractor shall indemnify the purchaser against all actions, suits, claims, demands, cost or expenses arising in connection with injuries suffered by persons employed by him, on the works whether under the General Law or under the Workers Compensation Act.1923 or any other statute in force at the date of the contract dealing with question of liability of employer for injuries suffered by employees and have taken steps properly to insure against any claims there under. Contractor should take insurance cover to all his workmen for injuries, disablement and death. All compensation against workmen's compensation act should be settled by the Contractor.
- b. On the occurrence of an accident which results in the death of workmen employed by the contractor which is due to the contract work and of so serious as to be likely to result in the death of any such workman, the contractor shall within 24 hours of happening of such accident intimate in writing to the Engineer and such other officers required by the provision of the workmen's compensation act, the fact of such accident. The contractor shall indemnify the TSTRANSCO against all loss or damage sustained by the TSTRANSCO resulting directly or indirectly from his failure to give information in the manner aforesaid including the penalties or fines if any payable by the TSTRANSCO as a consequence of the TSTRANSCO's failure to give notice under the workmen's compensation act or otherwise conform to the provisions of the said act in regard to such accident.
- c. In the event of any claim being made, or action brought against the purchaser involving the contractor and arising out of the matters referred to and in respect of which the contractor is liable under the clause of the contract shall be immediately notified thereof, and he shall conduct all negotiations for the settlement of the same or any litigation that may arise there from.
- d. In the event of an accident in respect of which compensation may become payable under workmen's compensation act VIII of 1923 and any subsequent amendment thereof, whether by the contractor or by the TSTRANSCO, as principle it shall be lawful for the Engineer to retain out of moneys due and payable to the contractor such sum or such sums of money as may be in the opinion of the said Engineer be sufficient to meet such liability. The opinion of the Engineer shall be final in regard to all matters arising under this clause and will not be subject to any claim.
- e. Liability for damage or loss to third party including inspection officers due to act of the contractor or by his representatives connected with the execution of this contract shall be fully borne by the contractor. The contractor shall maintain such detailed records to furnish information regarding engagement and discharge of all workmen employed under this contract as to be adequate for the timely and full settlement of claims under the workmen's compensation act. All cases of accidents or injuries shall be reported to the Engineer with full details required for the settlement under the workmen's compensation act.
- f. The contractor should report about all accidents within 24 hours to the Engineer of the TSTRANSCO in the preliminary accident form. He should furnish other particulars such as medical certificates, wage particulars, fitness certificates, and proof of having paid the compensation as per the rules in vogue in the due course without delay.

21. LIABILITY FOR DAMAGE TO WORKS AND PLANTS:

- a. The contractor during the progress of the work shall take every reasonable, proper, timely and useful precaution against accident or injury to the workmen from any cause and shall remain answerable and liable for all the accidents or injuries thereto which until the same, or be occasioned by the acts of omissions of the contractor or his workmen or his representatives and all losses and damages to the works as aforesaid, shall be made in the most complete and substantial manner by and at the sole cost of the contractor and to the reasonable satisfaction of the Engineer. Should such loss or damage happen to units of works or plant or materials falling outside the scope of this contract and due to the lapses of the contractor, these shall be replaced or compensated for by the contractor to the satisfaction of the Engineer.

- b. In the case of loss or damage to any portion of the work occasioned by the causes, the same shall if required by the purchaser, be made good by the contractor in like manner but at the cost of the purchaser at a price to be agreed between the contractor and the purchaser and the purchaser shall pay to the contractor the contract value of the portion of the work so lost or damaged or any balance of such contract value remaining unpaid as the case may be.
- c. Until the work shall be or deemed to be taken over as aforesaid, the contractor shall also be liable for and shall indemnify the purchaser in respect of all damage or injury to any person or to any property of the purchaser or other occasioned by the act of the contractor or his workmen or his representatives or by defective design, work or materials but not due to cause beyond his reasonable control.
- d. Provided that the contractor shall not be eligible under the contract for any loss of profit or loss of contracts or any claims made against the purchaser not already provided for in the contract, not for any damage or injury caused by or arising from the acts of the purchaser or of others (save as to damage by fire, as hereinafter provided) due to the circumstances over which the contractor has not control nor shall his total liability for loss, damage or injury exceed the total value of the contract.

22. **APPROVAL OF SUB-VENDORS FOR EQUIPMENT / MATERIALS AND APPROVAL OF GENERAL TECHNICAL PARTICULARS, DRAWINGS, BOMS ETC.**

The materials / equipment required for this project shall be invariably purchased from the manufacturers listed in the specification who have already been supplied similar materials to TSTRANSCO and have proven performance.

The bidder shall furnish in Schedule-E, the list of manufacturers to a maximum of three companies per each material which were considered while quoting the prices and from whom they are going to purchase the materials if order is placed.

All the equipment / material offered in the Bid shall be fully type tested as per the relevant standards. The type tests should have been conducted not earlier than 5 years from the date of bid opening. If the type tests conducted are earlier than 5 years the bidder shall arrange to conduct type tests at his own cost.

The bidder shall submit all the type test certificates and General Technical Particulars of equipment / material along with the bid.

With in 15 days of receipt of the Letter of acceptance, the Contractor shall finalize the sub-vendors for the list they have submitted in the bid and submit the finalized vendor list to TSTRANSCO for approval along with the GTPs, Drawings, BOMs etc., Any delay in submitting the above list will lead to delay in execution of the project and the responsibility lies with the Contractor.

23. **QUALITY ASSURANCE PLAN:**

The Quality Assurance Plan of TSTRANSCO is appended to this specification. The bidders are advised to go through the same before quoting the bids. The successful bidder will have to adhere to the Quality Assurance Plan during execution of works.

Bidder shall maintain the quality standards as per specification and shall attend the remarks of TSTRANSCO Quality Control wing on top most priority without any reminders from TSTRANSCO.

24 **QUALITY CONTROL & INSPECTIONS**

Standard: The goods supplied under this contract shall conform to the standards mentioned in the Technical Specifications and when no applicable standard is mentioned, the standard specified by the Institution of Central/State Government or internationally recognized Institutions shall be applicable and such standards shall be of latest version issued by the concerned institution.

Inspections and Tests:

- i) The purchaser or his representative shall have access to the Contractor's or Manufacturer's work at any time during working hours for the purpose of inspecting and testing the materials during manufacturing of the materials / equipment and may select test samples from the materials going into plant and equipment.
- ii) The inspections and tests may be conducted in the premises of the manufacturer/supplier, at the point of delivery and/or at the final destination stores i.e. at the site. Where tests are conducted in the premises of Manufacturer / supplier, all reasonable facilities and assistance including access to drawings and production data shall be furnished at no extra charge to the Purchaser.

- iii) Should any inspected or tested materials fail to conform to specifications, the inspection officer may reject them and the Manufacturer / supplier shall either replace the rejected materials or make all alterations necessary to meet specification requirements free of cost to the Purchaser.
- iv) The Purchaser's right to inspect, test and where necessary, reject the materials/equipment after their arrival at the site, shall in no way be limited or waived by reason of the materials/equipment having been previously inspected, tested and passed by the Purchaser or his representative prior to the dispatch
- v) The cost of making any test shall be borne by the contractor, if such test is clearly intended by or provided for in the contract.

Cost of tests not provided for: TSTRANSCO may decide to conduct certain other tests not covered in this specification on the materials supplied by the bidder by an independent person or agency at any place other than the site of the place of manufacture of the materials. The cost of such tests shall still to be borne by the contractor. If the tests show that the workmanship or quality of materials are not in accordance with the provisions of the contract the same may be replaced with new one conforming to specification at Contractor's cost.

Quality of Materials and Workmanship: All materials and workmanship shall be of the respective kinds described in the contract and in accordance with the Engineer's instructions and shall be subjected to change from time to time to such tests as the Engineer may direct at the place of manufacture or fabrication or on the site or at all or any such places. The contractor shall provide such assistance, instruments, machines, labour and materials that are normally required for examining, measuring and testing any work and the quality, weight or quantity of any materials used and shall supply samples of materials before incorporation in the works, for testing as may be selected and required by Engineer.

Cost of Samples: The contractor at his own cost shall supply all samples, if the supply thereof is clearly intended by or provided for in the contract.

Uncovering and Making Openings: The TSTRANSCO reserves the right to uncover and examine any part of the works if it is found to be not according to specification. The contractor shall uncover any part of the works or make openings as the Engineer may from time to time direct and shall reinstate and make good such part or parts to the satisfaction of the Engineer.

Inspection of operation: The Engineer and any person authorized by him shall at all times have access to the works and to all work shops and places where work is being prepared or from where materials are being obtained for the works and the contractor shall afford every facility and every assistance in or in obtaining the right to such access.

Removal of improper work and materials:

- a) The TSTRANSCO representative shall, during the progress of works, have power to order in writing from time to time the removal from the site within one week of receipt of notice, of any materials which in their opinion are not in accordance with the contract.
- b) In case of default on the part of the Contractor in carrying out such an order, the TSTRANSCO shall be entitled to employ and pay other persons to carry out the same and all expenses consequent therein or incidental thereto shall be recoverable from the contractor by TSTRANSCO from any money due to or which may become due to the contractor.

INSPECTION, DURING ERECTION: The provisions of the clauses entitled in the specification for other sections Inspection, Testing and Inspection Certificates shall also be applicable to the erection portion of the Works. The PURCHASER/ENGINEER shall have the right to re-inspect any equipment though previously inspected and approved by him, at the CONTRACTOR's works, before and after the same are erected at Site. If by the above inspection, the PURCHASER/ENGINEER rejects any equipment, the CONTRACTOR shall make good for such rejections either by replacement or modifications/repairs as may be necessary to the satisfaction of the PURCHASER/ENGINEER. Such replacements will also include the replacements or re-execution of those works of other CONTRACTORS and/or agencies, which might have got damaged or affected by the replacements or re-work done by the CONTRACTOR's work.

ACCESS TO SITE AND WORKS ON SITE: Suitable access to and possession of the 'Site' shall be afforded to the CONTRACTOR by the PURCHASER in reasonable time.

The work so far as it is carried out on the Purchaser's premises, shall be carried out at such time as the Purchaser may approve.

In the execution of the Works, no persons other than the Contractor or his duly appointed representative, Sub-contractor and workmen, shall be allowed to do work on the Site except by the special permission, in writing of the Engineer or his representative.

Access to the 'Site' at all times shall be accorded to the PURCHASER/ENGINEER and other authorized officials and statutory Public Authorities. Nevertheless, the CONTRACTOR shall not object to the execution of the work by other Contractors or tradesmen whose names shall have been previously communicated in writing to the CONTRACTOR by the PURCHASER/ENGINEER and afford them every facility for the execution of their several functions simultaneously with his own.

25 **TIME CONTROL**

Program: Time is the essence of the contract. The contractor shall organize his resources and perform his works so as to complete the contract in the stipulated completion period.

The contractor shall execute the project as per completion period given in Schedule C. During the execution of the contract, if the Engineer opines that proper progress is not maintained, suitable changes shall be made in the balance program of works to ensure proper progress.

Progress of Work:

If it is found that the progress of work is not commensurate with the program of completion, TSTRANSCO will be entitled to terminate the contract in part or full, giving 15 days notice and get the balance works / supplies completed through other agencies at the contractor's cost and risk. This right of TSTRANSCO is in addition to levying of "Penalty" for delayed works. The contractor shall furnish a monthly statement for the quantity of material supplied, quantity consumed and balance quantity held with him to the Executive Engineer concerned, with a copy marked to Chief Engineer/ Warangal & Construction.

26 **MANAGEMENT /CO-ORDINATION MEETINGS**

Monthly review of works shall be done by the Executive Engineer/ Construction/Warangal and bi-monthly review meetings will be conducted by Superintending Engineer/OMC/Warangal. Warning letters will be issued by Superintending Engineer/ OMC/Warangal and Chief Engineer Warangal Zone if the progress is not satisfactory. If the progress continues to be poor even after the second warning letter, show cause notice will be issued which will be followed by stoppage of all payments to the contractor, encashment of the BGs, and termination of contract and the balance works / supplies shall be completed through alternate agencies at contractor's risk and cost. **The contractor so penalized shall be blacklisted for 3 years from the date of termination of contract.**

Early Warning: The contractor has to intimate the TSTRANSCO at the earliest opportunity of specific likely future events or circumstances, which may adversely affect the Project Implementation Schedule. The contractor shall cooperate with the officers of TSTRANSCO in making and considering proposals for how the effect of such an event or circumstance can be avoided or reduced.

27 **SITE STORES:**

The contractor shall establish temporary stores at his cost at the sub-station site for storing material/equipment such as cement, steel, panels etc. This store should be dismantled and site cleared after the completion of the work.

28 **CONTRACTOR'S SITE OFFICE:**

The CONTRACTOR shall establish a Site Office at the 'Site' and keep posted an authorised representative for the purpose of the 'Contract'. Any written order or instruction of the PURCHASER/ENGINEER or his duly authorized representative shall be communicated to the authorised representative of the CONTRACTOR at the Site Office and the same shall be deemed to have been communicated to the CONTRACTOR at his legal address. A complete set of specifications, drawings and a copy of the contract agreement shall be kept in the site office at all times.

29 **CLEARING UP THE SITE:** During construction, 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 off 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 as directed by the Engineer. Any damage done to the permanent or temporary work of the Department by the contractor shall be made good at contractor's expenses.

- 30 CHANGE ORDERS:** The Purchaser may at any time by a written order given to the Contractor, make changes within general scope of the contract in any one or more of the following:
- (a) Drawings, designs or specifications for material/equipment.
 - (b) Method of packing,
 - (c) The services to be provided by the contractor.

If any such change causes an increase or decrease in the cost of, or the time required for the material or works, an adequate adjustment shall be made to the contract price or delivery schedule or both and the contract shall be accordingly amended.

- 31 WATER & POWER:** The successful bidder has to make use of the water and power supply available if any at Substation site. Transport of water from the available source to the Sub-station site will be the bidder's responsibility. The contractor has to use power driven equipment at his own cost for pumping water. In case water is not available at site the bidder has to make his own arrangements and any extra claim on account of this will not be entertained. Temporary Power supply if required for construction purpose will be arranged by TSTRANSCO at one point in the substation site from DISCOM. Further cabling up to the contractor's office/works is in the contractor's scope only. It is the responsibility of the contractor:

- a) The power consumption charges including deposits if any for temporary supply will have to be borne by the contractor.
- b) To settle all the bills raised by DISCOM regarding the consumption charges and to obtain & submit "No Due Certificate" from DISCOM on completion/closing of works.
- c) If any mal-practice/theft of energy takes place during the execution of contract by the contractor, it is the responsibility of the contractor to settle such cases by DISCOM before completion of substation works.

The estimated cost of 11 kV or 33 kV line if any for getting temporary supply will be borne by TSTRANSCO.

32 OPERATION AND MAINTENANCE MANUALS:

Contractor shall supply operation and Maintenance manuals at least one month prior to scheduled completion date. If the contractor does not supply the manuals by the date stated, the Purchaser shall withhold the amount suitable from payments due to the contractor.

15 copies of Contract Agreements, Purchase Order with specification, QAP, all the approved drawings of Equipment, Materials, GTPs, BOMs, Layout plans etc and Equipment manuals, technical literature, operating instructions etc., provided by the manufacturers shall be supplied by the bidder to distribute to field O&M and O&M wings and to keep the spare records at Head Quarters. The Contractor shall prepare the final tower schedule and shall supply in 15 copies. The cost of the above shall be borne by the Contractor.

33 SAFETY PLANS

l) GENERAL SAFETY RULES FORMED FOR FOUNDATIONS, TOWER ERECTION AND STRINGING:

1. Steel/ Aluminums /Wooden ladders of 3.5 meters length shall be used for movement of labour in excavation, stub setting and concreting works. Keep cement out of the eyes.
2. All polypropylene ropes and slings, shackles proposed to be used shall be tested and inspected thoroughly before use.
3. Walkie talkie sets & Cell Phones shall be used for effective communication.
4. Binoculars shall be used for closer view
5. Red and Green flags shall be used for illiterate communication.
6. Pilot wires and joints shall be tested and thoroughly inspected before use
7. Ropes and guy wires shall be tested and thoroughly inspected before use
8. Ensure travelers in frictionless and good condition.
9. Load rating of stringing, pulling lines, conductor grips, load bearing hardware and accessories, rigging and hoists shall not be exceeded.
10. Traveler grounds should be installed at the first and last tower between tensioner and puller, when stringing in proximity to energized lines. Traveler ground at a maximum distance not exceeding 3 KM. Personnel shall never be in series with a ground lead. Traveler grounds shall have a suitable grounding stub located in an accessible position to enable placing and removing the ground clamps with hot sticks when necessary.
11. The conductor reel stands shall have breaking device to prevent over running and backlash as the conductor is pulled out.

12. The location of the puller, tensioner and intermediate anchor sites shall be selected such that the structures are not over loaded.
13. Slack shall be removed from all anchor lines prior to loading to minimize the possibility of equipment movement or impact loads to the anchors.
14. All equipment, conductors, anchors and structures within the work area shall be bonded together and connected to the ground source.
15. A running ground shall be installed between the reel stand and tensioner for conductor, or puller for pulling line, and the first tower.
16. When clipping is being done, care must be exercised to ascertain that the conductor are grounded prior to clipping, placing a local ground upon the conductor at the location of work.
17. Care must be exercised to ensure that concentrated load of the men, car and equipment dose not increase the sag appreciably to cause a hazard from obstructions over which the car will pass while installing spacers in bundle conductors.
18. If two conductors are to be spliced, the conductors shall be bonded and grounded before being spliced.
19. To cross over of energized lines, the line clear permit system shall be followed without any ambiguity to de-energize the lines. The de-energized lines shall be earthed effectively. Men and material clearance on line shall be ensured before returning permit.

II) GENERAL SITE SAFETY RULES & REGULATIONS

1. All personals engaged for this job shall wear Safety Helmet & safety shoes.
2. Appropriate Hand Gloves shall be used for Materials handling, Welding, Grinding, Gas cutting, Chemical Handling & Electrical work.
3. Suitable goggles must be ensured for the personnel deployed for Welding, Gas Cutting Chipping etc Grinders shall use face shield.
4. The personnel engaged in the noise zone such as Compressor Operator, Pneumatic Vibrators & Breakers, DG Operator etc. shall be equipped with suitable ear protection.
5. All personal working over 2.0-meter height shall wear full body safety harness with double lanyard and scaffold hook, before climbing. Further he will have to anchor the safety harness to a fixed structure before starting the work at a height, Fall Arrest Devices will be used in conjunction with safety harness, wherever the requirement arises.
6. Smoking is prohibited in all restricted area except in authorized smoking areas/ shelters.
7. Horseplay is prohibited at workplace. Running at the site is prohibited, except in case of emergency.
8. Material shall not be thrown from the height. It should be lowered from height.
9. Other than the electricians, no one is allowed to carry out electrical connections, repairs on electrical equipment or other jobs related thereto.
10. Inserting of bare wires for tapping the power from electrical sockets is completely prohibited.
11. Electrical supply to portable equipments should be through Earth leakage circuit breaker (ELCB) of 30 milliamps sensitivity.
12. All major /minor accidents and near misses to be reported to Site in charge / Site Safety Engineer to enable the management to take necessary steps to avoid the recurrence.
13. All tools and tackles shall be inspected before use. Defects to be reported immediately. No lifting tackle to be used unless it is certified by a competent person/ Safety Engineer.
14. Workers should possess induction tester. Whenever a shut down is taken this device should be used to ensure no current is on the conductor.
15. Move carefully when walking or climbing.
16. Keep the working area as neat as possible.
17. Remove hazards as soon as they are noticed.

III) ENERGIZED ELECTRICAL WORKS, BASIS REQUIREMENTS ARE:

1. Face shields/ Voltage rated gloves/ Voltage rated rubber floor matting Shepherd's Hook/ Warning/ Safety signs/ barricades.
2. Pay close attention to what is being done.
3. Disconnect power tools before adjusting them.
4. Keep power tool guards in place.
5. Avoid interrupting another person who is using a power tool..

IV) STORES

1. A layout demarcating areas for stacking, storing and disposing the materials is made.
2. The materials are stacked with passage to reach them. The aisle is marked. Materials should not protrude beyond the marked area posing tripping hazard.
3. Name bards shall be displayed to mention the place for every item.
4. The racks installed must be supported well to prevent from falling.

5. To reach the rack top, person should not climb on the rack shelf, ladder should be used.
6. Vertical stacking of materials should not exceed the prescribed norms, posing falling hazard because of imbalance.
7. Adequate lighting is provided.
8. Flammable, materials like Dissolved acetylene, paints etc. are stored under well- ventilated shed. Electrical connection in these locations should be proper and maintained well such that they do not cause short circuit. Smoking, carrying matchbox or any other fire causing materials is prohibited in these areas.
9. Sufficient fire extinguishers are kept at conspicuous places and the path to reach them shall not be blocked anytime.
10. Toxic materials are labeled and kept at secured place where only authorized persons shall handle..
11. Nail pullers shall be used whenever possible to remove nails from boxes and crates. Metal strapping should be cut with proper safety tool.
12. Barrels and drums shall preferably be placed on one end. If placed on their side, these shall be provided with racks or blocked so these cannot roll.
13. Oils, greases and paints shall not be openly stored at any time.
14. The scrap pile and junk materials shall be kept as orderly as conditions will permit. Extreme care shall be used in handling scrap material to prevent personal injury.
15. All T&P issued to the site to be ensured in safe working conditions by a competent person and damaged T&P to be identified and place at a marked place.
16. First aid box shall be available at work site.

V) **TRANSPORTATION OF MATERIALS**

1. Only identified crew does the loading and unloading of the materials.
2. The gang leader and the crew should be aware of the weight of the materials they are to handle.
3. Proper and reliable tackles like slings, D- shackles etc. shall be used for material handling.
4. Lashing to be done after the materials loaded on the trailer.
5. Red flag is tide on structures extending beyond the trailer body. At night reflectors to be fixed.
6. Structures extending beyond the cabin height are prohibited from transporting.
7. The drive should be aware of the path to the terminal he is to transport the material and ensure on blockaded are there.
8. The gang leader should know the specific spot for unloading the materials.
9. Two tag lines shall be tide to the end of the structures while handling by crane.
10. All structural steel shall be placed on wooden sleepers.
11. Stable and sufficient wooden sleepers to be ensured by the Foreman /gang leader.
12. Workmen should not travel along with the loaded material.
13. It is better to plan material shifting in sequence in such a manner that one gang is engaged for loading and another gang should be made available for unloading. This will reduce the traveling of workmen on transport vehicles.
14. The supplier/Manufacturer shall provide such packing for the material/equipment as is required to prevent their damage or deterioration during transit to their final destination as indicated in the Technical specification for material/equipment. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, humidity etc. during transit and open storage.

VI) **SAFETY SIGNS**

1. Safety warning signs shall be placed to provide adequate warning of hazards. Sign shall be removed or covered when the hazards no longer exist.
2. Warning signs shall indicate the cautions to be observed regarding the hazards concerned and the necessary information and, also, actions of employees required to initiate.
3. It is recommended that safety signs on the Project conform with the current national colour codes.
4. Signs shall be in English & Local language where located near public highways and facilities.
5. Sign required to be seen at night shall be illuminated. Kerosene and open flame pots shall not be used for illumination.

34 BILL OF MATERIALS: Wherever the drawings and designs are provided by TSTRANSCO, the suitability of these designs and drawings shall be verified by the bidder for design requirements as per standards, site and soil conditions based on the soil investigation and environmental conditions prevailing for that particular project before submitting BOMs for approval. Substitutions if any of steel sections of the tower parts of higher size due to non-availability or other wise, shall be to the contractors account. The supplier shall raise the invoices as per the approved BOMs.

35. **PHOTOGRAPHS AND PROGRESS REPORT**

Contractor shall furnish three (3) prints to the PURCHASER/ENGINEER of progress photographs of the work done at 'Site'. Photographs shall be taken when and where indicated by the PURCHASER/ENGINEER or his representative. Photographs shall be adequate in size and number to indicate various stages of erection. Each photograph shall contain the date, the name of the CONTRACTOR and the title of the photograph. Normally photographs may be taken once every 15 days and for all special events.

The above photographs shall accompany the fortnight/ monthly progress report detailing out the progress achieved on all erection activities as compared to the Schedules. The report shall also indicate the reasons for the variance between the scheduled and actual progress and the action proposed for corrective measures wherever necessary. The contractor shall furnish progress reports as and when requested by the PURCHASER/ ENGINEER.

Photographs shall be taken by the contractor for each tower location of EHT lines in the following stages of

1. *After excavation is over in normal soils.*
2. *Before and after blasting in Hard rock soils.*
3. *During dewatering.*
4. *During concreting.*
5. *Shoring & strutting.*

For Substations:

At all important stages like levelling, foundations, laying of slab etc.

Note: The photographs should be clear and hard copy or soft copy (2 Nos) shall be submitted to the Engineer in charge immediately.

36. **MEASUREMENT OF WORK AND PROGRESS PAYMENTS**

The PURCHASER/ENGINEER may, from time to time, intimate the CONTRACTOR that he requires the works to be measured and the CONTRACTOR shall attend or send a qualified agent to assist the PURCHASER/ENGINEER or his representative in taking such measurements and calculations and to furnish all particulars as may be required by him.

Where the erection of equipment, vessels and structural steel is involved, the basis of such measurements and progress evaluation shall be weights specified in the bidding documents or invoices or drawings as decided by the PURCHASER/ ENGINEER.

Should the CONTRACTOR not attend or neglect or omit to send such agents, then, the measurement taken by the PURCHASER/ENGINEER or approved by him shall be taken to be the correct measurements of the work. The CONTRACTOR or his agent may, at the time of measurement, take such notes of measurements as he may require.

When measurements are affected by conditions already established, the CONTRACTOR shall take field measurements notwithstanding scale or dimensions shown on the drawings.

The measurements so taken and certified correct by the PURCHASER/ENGINEER shall be the basis for the progress payment to the CONTRACTOR. Where the breakup of 'Contract on unit basis price' is difficult to arrive at, the PURCHASER/ENGINEER and the CONTRACTOR shall work out at the commencement of the 'Contract', the weightages or the cost break-ups to arrive at a mutually agreeable basis for computation of the progress estimates.

To the value so arrived at on the basis of the CONTRACTOR's monthly progress evaluated, shall be added the amounts earned by the CONTRACTOR under supplemental contracts and orders, if any, till date of progress estimate. From the total thus computed, all previous payments plus any amounts due to the PURCHASER in accordance with the terms of this contract shall be deducted. The remainder shall be paid by the PURCHASER to the CONTRACTOR under interim Certificates from the ENGINEER.

In case of work is nearly suspended, or in case only unimportant progress is being made, or in case it is apparent that the CONTRACTOR is about to forfeit his 'Contract' or that the money yet due to him shall not complete his 'Contract', the PURCHASER may at his discretion withhold any payment which may be due to the CONTRACTOR.

The PURCHASER may withhold part or whole of any payment for erection claimed by the CONTRACTOR, which in opinion of the PURCHASER, is necessary to protect himself from loss on account of:

- a) Defective work not remedied or guarantees not met
- b) Claims filed against the CONTRACTOR
- c) Failure by the CONTRACTOR to make due payment for materials supplied or labour employed by him.
- d) Damage to other Contractor's, PURCHASER's or OTHERS' property.
- e) Failure to meet the mutually agreed schedules for completion of the contract.

When the grounds for withholding payments are removed, payments of the amount due to the CONTRACTOR shall be made by the PURCHASER without delay.

The CONTRACTOR shall not demand nor be entitled to receive payment for the work or portion thereof, except in the manner set forth in this 'Contract' and only after the PURCHASER/ ENGINEER shall have given a certificate for such payment.

- 37 **PROTECTION OF WORK:** The CONTRACTOR shall have total responsibility for protecting his 'Works' till it is finally accepted by the PURCHASER/ ENGINEER. No claim will be entertained by the PURCHASER/ ENGINEER for any damage or loss to the CONTRACTOR's works and the CONTRACTOR shall be responsible for the complete restoration of the damaged 'Works' to its original condition to comply with the specifications and drawings. If any such damage occur to the CONTRACTOR's Works because of other party not under his claim directly with the party concerned the same shall be dealt by the contractor alone. During construction of the project, the PURCHASER will continue to operate the plant and equipment already put in service. The CONTRACTOR shall protect all such plant, structures, piping, conduits, equipment and facilities against damage during its operations.

38 **FIRE PROTECTION**

The Work procedures that are to be used during the erection shall be those, which minimize fire hazards to the extent practicable. Combustible materials, combustible waste and rubbish shall be collected and removed from the 'Site'. Fuels, oils and volatile or inflammable materials shall be stored away from the construction and equipment and materials, storage areas, in safe containers. Untreated canvas paper, plastic or other inflammable flexible materials shall not at all be used at 'Site' for any other purposes unless otherwise specified. If any such materials are received with the equipment at the 'Site', the same shall be removed and replaced with acceptable material before moving into the construction area or storage.

Similarly, corrugated paper fabricated cartons, etc., will not be permitted in the construction area either for storage or for handling of materials. All such materials used shall be of waterproof and flame resistant type. All the other materials such as working drawings, plans, etc., which are combustible but are essential for the 'Works' to be executed shall be protected against fire resulting from welding sparks, cutting flames and other similar fire sources.

All the CONTRACTOR's supervisory personnel and sufficient number of workers shall be trained for fire fighting and shall be assigned specific fire protection duties. Adequate number of such trained personnel must be available at the 'Site' during the entire period of the 'Contract'.

The CONTRACTOR shall provide and maintain fire protection equipment, adequate in design and numbers for the warehouses, office, temporary structures etc. Access to such fire protection equipment shall be easy and kept open at all times. The compliance of the above requirements under fire protection shall in no way relieve the CONTRACTOR of any of his responsibilities and liabilities due to fire accidents occurring either to his materials and equipment or to those of others working in the area.

39 **SECURITY (WATCH & WARD)**

The CONTRACTOR shall have total responsibility for all equipment and materials in his custody stored, loose, semi-assembled and/or erected by him at 'Site'. The CONTRACTOR shall make suitable security arrangements including employment of security personnel to ensure the protection of all materials, equipment and 'Works' from theft, fire, pilferage and any other damage and loss.

40 **TESTING AND COMMISSIONING**

The MRT wing of TSTRANSCO supervises and assists the Contractor and his sub-vendors in testing & commissioning of Equipment. However the 'Testing and Commissioning' of the equipment erected by the CONTRACTOR shall be the responsibility of the CONTRACTOR. The CONTRACTOR shall provide in addition, test instruments, calibrating devices, etc. which are not available with MRT wing for successful and speedy completion of testing and commissioning. The labour required for the successful performance of these inspection tests shall have to be arranged by the Contractor. If it is anticipated that the above tests may prolong for a long time, the CONTRACTOR's workmen required for the above inspection tests shall always be present at 'Site' during such inspection tests. All the expenditure for the above arrangements will be to the contractor's account only.

41 **INDEMNITY BOND FOR ALL MATERIALS:** For all materials supplied by the Contractor, the Contractor shall take delivery of materials after executing an indemnity bond in favour of the Purchaser against loss, damage and any risks involved, for the full value of the materials. This indemnity bond shall be valid till the scheduled date of testing, commissioning and handing over of the line to the Purchaser.

42 **ACCOUNTING OF SURPLUS MATERIALS/ SETTLEMENT OF MATERIAL ACCOUNT:**

On completion of the works, **all surplus materials**, for which payments have been made by the TSTRANSCO or materials issued by TSTRANSCO for works if any, shall be handed over to the Engineer at TSTRANSCO's designated stores at the cost of the contractor within a time limit of 2 months. If the materials are not returned and are in the opinion of the Executive Engineer in-charge of the work, not in a fit condition for use, they will be treated as sold to the contractor at DOUBLE the rate of issue of material and recoveries made contractor's bill accordingly.

43 **FINAL ACCOUNT:**

- a) Not later than two (2) months after handing over of the works complete in all respects i.e., after successful testing and commissioning, the Contractor shall submit a draft statement of 'final account' and supporting document to the Engineer/Engineer's Representative showing in detail the value of the work done in accordance with the contract.
- b) Within two (2) months after receipt of the Draft Final Account and all information reasonably required for its verification, the Engineer/Engineer's representative shall determine the value of all matters to which the Contractor is entitled to under the contract. The Engineer/Engineer's representative shall then issue to the Contractor a statement showing the final amount to which the Contractor is entitled to under the contract. The Contractor shall sign the Final Account as an acknowledgement of the full and final value of the work performed under the contract and shall promptly submit a signed copy to the Engineer/Engineer's representative.
- c) On receipt of Final Account, the Engineer/Engineer's representative shall promptly prepare and issue to the Contractor a "Final Payment Certificate" certifying any further amounts due to the Contractor in respect of the contract.
- d) If the contractor does not finalize the material account with in 6 months from the date of completion of works/ handing over of works, the field Executive Engineer will prepare the final bill duly deducting the cost of all the unaccounted / unhandled over material and will issue a notice to the contractor for signing on the bill. If the contractor do not turn-up within 15 days of that notice, the bill will be processed without signatures of the contractor. The cost of the unaccounted material will be taken as per Clause 42 above.

44 **TAKING OVER:**

Upon successful completion of all the commissioning tests to be performed at site on equipment furnished and erected by the Bidder, and on successful commissioning of the project, the Purchaser shall issue to the Contractor 'a taking over Certificate' as a proof of the final acceptance of the project. However such taking over certificate will be issued only after handing over of all the manuals, drawings, tower schedules as per Clause 32 above and after settlement of materials account and final bill.

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FINANCIAL

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SECTION-II: FINANCIAL

- 1.0 Bid Prices:** The basic prices quoted shall be **Firm** in rupees and quoted against each item in the schedule for the work specified including material and labor and also against 'Total'.

In case of bought out materials / equipment the bidders shall quote all inclusive price in basic/ex-works price and can mention 'Not-applicable being bought out item'. TSTRANSCO shall pay only for the taxes involving direct transaction between the bidder and TSTRANSCO and not for the transaction between bidder and his sub-vendors.

For Works:

The Bidder has to quote in Schedule-B, the percentage Excess/ On Par/ Less over the estimated value of the works given in the Schedule-A.

The BASIC quoted rates of Schedule-A shall be remain same on all accounts such as increase / decrease in quantity, execution of contract beyond the scheduled completion period for whatever reasons, increase in the rates of material or labour or both during execution with and beyond the completion period. However Price variation as per Clause 1.2, Statutory Variation as per Clause 2 and applicable rates for supplemental quantities over agreement quantities as per Clause 3, shall be applicable.

1. STATUTORY VARIATION:

It is the responsibility of bidder to inform himself of the correct rates of duties and taxes leviable on the equipment/material/Work at the time of bidding. If the rates of duties and taxes quoted in the bid are higher than the current rates of duties and taxes prevailing at the time of execution, the difference will be to the credit of TSTRANSCO.

For Schedule-A 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 TSTRANSCO.

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 TSTRANSCO will be given credit to that effect. For the variations beyond the scheduled completion period the payment of taxes shall be limited to the tax rates applicable with in the scheduled completion period.

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 inclusive of GST. For this purpose bought item means the material / equipment not manufactured by the bidder or either of Joint venture partners.

The bidder shall clearly mention the percentage of taxes and duties quoted by him under the Schedule-B (The rates in Schedule -A are including WCT, Service Tax and Labour Cess etc., considered while quoting +/- tender percentage)

2.1 PAYMENT OF TAXES, LEVIES, DUTIES, STATUTES

- 2.1.1 Contractor shall be entirely responsible for payment of all taxes, levies, duties, license fees, etc., incurred until delivery of the contracted goods to the purchaser.
- 2.1.2 In respect of supply portion, the contractor shall pay all types of fees, levies, taxes, duties etc. required to be paid by any National or State statute, ordinance or other law or any regulation or bye-law of any local or other duly constituted authority in relation to the execution of works and by the rules and regulations of all Public bodies and companies whose property or rights are affected or may be affected in any way of the works. The contractor shall in compliance with the above keep the Purchaser indemnified against all such penalties and liability of every kind for breach of any statute, ordinance or law, regulation or bye-law.
- 2.1.3 Nothing in the contract shall relieve the contractor from his responsibility to pay any tax that may be levied by the Government on the turnover / profits made by him in respect of the contract.
- 2.1.4 The present rates of taxes and duties which have been considered in the estimate are mentioned in the Project Data Sheet. However it is the responsibility of the bidder to ensure the correct rate and any change of rate of taxes and duties at the time of quoting.

2.2 TAXES INCLUDED IN THE BID

The percentage quoted by the contractor shall be deemed to be inclusive of the all taxes on all materials that the contractor will have to purchase for performance of this contract. All taxes, duties etc., payable to the Government, Quasi Government. Bodies at the rates as on the date of opening of tender are deemed to be included in the quoted prices. Statutory variations in the applicable rates or newly introduced taxes/duties will be to TS TRANSCO's account. However the corporation will not be responsible for payments/excess payments made under misapprehension of law.

(i) GST:- At 18% on total estimated cost

The Contractor has to raise the invoice/bills clearly showing the details of CGST/SGST.

(ii) LABOUR CESS:- At 1% of Work Contract Value (TSTRANSCO will remit it to the Labour Department).

2.3 SEIGNORAGE CHARGES:

Seignorage charges has to be paid by the bidder to the Assistant Director Mines & Geology Department other wise it will be deducted from the bills as per rules in vogue.

2.3.1 INSURANCE:

The prices quoted by the bidder shall include insurance charges for transit, storing and erection risks materials and insurance for labour as per the labour laws in vogue.

All the materials / equipment shall be insured by the contractor for loading, transit, unloading, storage and erection risks. Any insurance premium payable shall be borne by the contractor and shall cover the following risks also.

- a) Full cover against damage to other people's property
- b) Coverage against death or injury caused by the contractor's acts or omissions to:
 - i. Anyone authorized to be on the site.
 - ii. Third parties who are on the site.
- c) Full cover against theft and damage to the works and materials during transit, storage and construction, till to the commissioning and handing over of the project in full shape.

It is the entire responsibility of the contractor for the safety of all the materials / equipment and labours till the notified project / work are handed over to TSTRANSCO after commissioning. While doing the insurance for the workmen, the Contractors are advised to follow the labour department rules in vogue. Any additional insurance premiums if required during the course of project execution shall be borne by bidder.

All costs on account of insurance liabilities covered under this contract will be on contractor's account. The Contractor shall provide the purchaser with a copy of all the insurance policies and documents taken over by him in pursuance of the contract. Such copies of documents shall be submitted to the purchaser immediately after such insurance coverage. The Contractor shall also inform the purchaser in writing at least sixty(60) days in advance, regarding expiry, change, any modification, amendments etc., Without prior approval of purchaser the Contractor shall not cancel any of the Insurance policies made for the project. It is the Contractor's responsibility to ensure revalidation or renewal of the insurance policies well in advance.

The bidder 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.

The Goods supplied under this Contract shall be fully insured against loss or damage incidental to manufacture or acquisition, transportation, storage, delivery and erection .In case of domestic goods the insurance shall be at least for an **amount equal to 110% of the cost of the goods** from "warehouse to warehouse (final destination)" and **storage up to commissioning** thereafter on "All Risks" basis including War Risks and Strike Clauses.

In addition, the following provisions will apply to the portion of the 'Works' to be done by CONTRACTOR. Comprehensive Insurance of equipment/materials during erection and commissioning, Workmen's Compensation Insurance, Comprehensive Automobile Insurance and Comprehensive General Liability Insurance shall be the responsibility of the CONTRACTOR.

The Contractor shall also maintain an insurance policy against all claims which may be made upon Purchaser whether under the Workmen's Compensation Act or any other statute in force during the currency of the contract or at common law in respect of any employee of contractor. The Contractor shall be responsible for anything which may be excluded from the insurance policies referred to above and also for all other damage to any property or persons out of and incidental to the negligence or defective carrying out of this contract.

Third party Compensation: In particular, the Contractor shall effect and maintain an insurance policy of at least Rs.3.00 lakhs for one person and Rs.5.00 lakhs per accidental for injury or death and at least Rs.5.00 lakhs per accident for third party property damage, to indemnify purchaser against all third party accident/damage claims which may arise in respect of the work or in consequence thereof.

Workmen's Compensation Insurance: This insurance shall protect the CONTRACTOR against all claims applicable under the Workmen's Compensation Act, 1948 (Government of India). This policy shall also cover the CONTRACTOR against claims for injury, disability, disease or death of his or his SUB-CONTRACTOR's employees, which for any reason are not covered under the Workmen's Compensation Act, 1948. The liabilities shall not be less than :

Work Men's compensation	-	As per statutory provision
Employees liability	-	As per statutory provision.

Comprehensive Automobile Insurance: This insurance shall be in such a form to protect the CONTRACTOR against all claims for injuries, disability disease and death to members of public including the PURCHASER's men and damage to the property of others arising from the use of motor vehicles during on or off the 'Site' operations, irrespective of the purchaser-ship of such vehicles. The liability covered shall be as herein indicated:

Fatal injury	: Rs. 1,00,000 each person
	Rs. 2,00,000 each occurrence
Property damage	: Rs. 1,00,000 each occurrence

Comprehensive General Liability Insurance: This insurance shall protect the CONTRACTOR against all claims arising from injuries, disabilities, diseases or death of members of public or damage to property of others due to any Act or omission on the part of the CONTRACTOR, his agents, his employees, his representatives and SUB-CONTRACTORS from riots, strikes and civil commotion. This insurance shall also cover all the liabilities of the CONTRACTOR arising out of the clause entitled 'Clause. 31.0' of GCC Indemnify the Purchaser under 'General Conditions of Contract'.

The above are only illustrative list of insurance covers normally required and it will be the responsibility of the CONTRACTOR to maintain all necessary insurance coverage to the extent both in time and amount to take care of all his liabilities either direct or indirect, in pursuance of the 'Contract'.

It will be the responsibility of the Contractor to lodge, pursue and settle all claims with the Insurance Company in case of any damage, loss, theft, pilferage or fire and the Purchaser shall be kept informed about it.

2.5. ROYALTIES FOR PATENTS:

All royalties for patents or charges for the use of infringement thereof that may be involved in the construction or use of any material shall be included in the bid prices. The bidder shall protect the TSTRANSCO against any and all such claims arising out on account of the use thereof.

2.6 The bidders are requested to consider all the applicable deductions and taxes & duties while quoting and no additional payment will be made if the bidder did not consider any of the prevailing taxes and duties and deductions at the time of quoting.

3. SUPPLEMENTAL QUANTITES / ITEMS:

The quantities indicated in the Schedule-A (Works) 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 Chief Engineer/Rural Zone well in advance and take prior orders for going ahead with the work. Without approval of this office, the Contractor shall not go ahead with the work wherever there is increase in quantities exceeds beyond 25% over and above the scheduled quantities or any new items / supplemental items arises.

The contractor is bound to execute all Increased / supplemental / new items that are found essential, incidental and inevitable during execution of the contract at the rates to be worked out as below:

3.1 Increased Quantities:

1) For work items covered in Schedule-A:

- a) **For quantities increased above the Scheduled quantities:** The rates accepted for individual items shall hold good up to above the agreement quantities.

3.2 For Supplemental / New Items:

- i) For the items relating to the Schedule-A where the rate can be deduced from the estimate or TSTRANSCO / DISCOMS / common SSR, the rate applicable will be the estimated / SSR rate +/- tender percentage quoted/ accepted by the bidder for Schedule –A. The schedule of rates adopted for supplemental items / new item will be from the SSR based on which the sanctioned estimate is prepared for calling of bids.
- ii) For the items relating to the Schedule-A 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.

3.3 The contractor shall plan and procure the materials indicated in the schedule 'A' duly verifying with the approved layout , So that the procured quantities match with actual requirement to avoid excess supply of materials.

3.4 The Schedule time required to complete the new / supplemental items including the balance work will be indicated in the approval letter issued for new / supplemental items.

3.5 SECURITY DEPOSIT: The bid security paid by the successful tender will be adjusted towards security deposit and the successful tender has to pay balance 3% on quoted value before entering in to agreement.

3.6 PERFORMANCE GUARANTEES

- i) The contractor shall warrant for the satisfactory functioning of the materials / equipment supplied and for the satisfactory operation of the workmanship performed by him, for a minimum period of '18 months from the check-measurement of the equipment or materials or works' **or** '12 months from the date of commissioning of the project (Line / Sub-Station / Bay works etc)' which ever is later. Where the suppliers/ Manufacturers provide longer period of warranty than mentioned above, the Purchaser shall be entitled for such longer warranty.
Equipment, sub-assemblies or spares, or parts replaced / repaired under warranty shall have further warrantee of 12 months from the date of replacement / repair.
- ii) After commissioning and handing over of the project to the TSTRANSCO, the contractor shall arrange for thorough patrolling of the line during the first six months of the guarantee period so that the defects if any noticed during that period may be rectified by the contractor free of cost to the TSTRANSCO without having to wait for the TSTRANSCO to suggest such rectifications.
- iii) If during the period of guarantee, the Engineer decide and inform in writing to the contractor that any equipment, part of equipment, material or works is defective, the contractor on receiving details of such defects or deficiencies shall at his own expense, irrespective of reimbursement of insurance company, rectify/replace the defective material or works within seven (7) days of his receiving the notice or within such reasonable time as TSTRANSCO may deem proper for making it good. The decision whether correction of the defects should be through repair or by replacement shall be the sole discretion of the TSTRANSCO.
- iv) In the event of contractor not responding to the intimation of the Engineer as mentioned in above, the Engineer may arrange for a third party to correct the Defect and the extra costs for such .
- v) The Engineer is to give the contractor at least seven (7) days notice of this intention to use a third party to correct a Defect. If the contractor does not correct the Defect himself within this notice period, the Engineer may have the Defect corrected by the third party. The cost of the correction will be deducted / collected from the Retention amounts or Performance / additional / Retention securities or amounts / bills pending to the contractor either in this contract or other contracts or any other Securities.

4.1 PERFORMANCE SECURITY:

The successful bidder shall furnish performance security equal to **Five percent (5%)** of the value of Schedule –A for the proper fulfillment of contract to cover the completion period plus 12 months guarantee period plus 2 months claim period .The security deposit paid by the successful tender will be adjusted as performance guarantee and balance performance guarantee will be deducted from the bills submitted.

If the successful bidder fails to furnish the performance security as specified above, the contract is liable for cancellation and forfeiture of the bid security. The performance security shall also be forfeited if the successful bidder fails to fulfill the terms of the contract.

Performance security may be made by Demand Draft on any approved Bank payable at Warangal in favor of Superintending Engineer/OMC/Warangal TSTRANSCO or by way of Bank Guarantee from approved Bank, in favour of tender inviting authority, in the prescribed proforma.

All Bank Guarantees, which are executed in accordance with this specification, shall be on a Stamp paper of value not less than Rs.100/- (Rupees one hundred only). Bank Guarantee executed on the stamp paper of value less than Rs.100/- will not be accepted.

4.2 ADDITIONAL SECURITY:

If the rate quoted by the bidder less than 10% of the TSTRANSCO's total estimated cost will be considered as abnormally low rate. In the case of abnormally low quoted rates i.e. less than 10% additional security deposit (ASD) to be paid for the less percentage below 10% i.e. if the bidder quotes 20% below the total estimated cost then he has to pay ASD equivalent to 10% of the total estimated cost.

The Additional security may be made by Demand Draft on any approved Bank payable at Waranagal in favor of Superintending Engineer/ OMC/Waranagal or by way of Bank Guarantee from a Nationalized/ Scheduled Bank as per the list enclosed, in favour of tender inviting authority covering a period of 2 months over and above the completion period.

4.3 All Bank Guarantees, which are executed in accordance with this specification, shall be on a Stamp paper of value not less than Rs.100/- (Rupees one hundred only). Bank Guarantee executed on the stamp paper of value less than Rs.100/- will not be accepted.

4.4 The Performance and Additional Securities will be forfeited in the following cases.

- i) When the successful bidder does not fulfill the obligations under the contract or proven to be false submission of the information either in the bid or the information relating to the contract.
- ii) When the successful bidder fails to execute the work in accordance with the clauses under this specification.
- iii) When the successful bidder executing the work with in-ordinate delays or with poor quality which hampers the prime object of the contract, the securities will be en-cashed and will be adjusted towards such losses incurred by TSTRANSCO or towards risk purchase.
- iv) When the successful bidder pleads his inability to erect the Substation / Line and backs out of his obligations after issue of the preliminary acceptance letter or the letter of intent, the TSTRANSCO will forfeit his performance/ additional/ bid securities and also recover the loss, if any, sustained by the TSTRANSCO as a consequence of such backing out. In addition, the company will be blacklisted.

4.5 TERMS OF PAYMENT :

All the bidders who shall accept the following terms of payment are only acceptable. Bids received stipulating terms other than the following terms will be invalidated.

5 PAYMENT: -

- a) 90% payment of the work done will be made at reasonable intervals for the work executed. No claims are entertained for any delay in payments due to unforeseen circumstances. Payments will be subjected to deductions towards Income Tax as per the Income Tax Department rules in vogue and also standard deduction of 10% of value of work towards retention amount, which will be released along with the Performance Security after six months of the completion of the work. The Paying Officer is Superintending Engineer/ OMC/Warangal.
- b) The Contractor should prepare his own bills in triplicate (in standard TSTRANSCO Forms) accompanied by copies of T Notes if any, duly acknowledged by the officer incharge and send the same to the Assistant Engineer and Assistant Divisional Engineer concerned for check and thus for payment to the paying authority. Rates quoted shall be inclusive of all taxes. The Income tax and Sales Tax will be deducted at source from the bills submitted for payment as per the relevant acts, Rules and Regulations there under at the rates prevailing at that time.
- c) All statutory deduction towards Income Tax, TS. Contracts Tax etc., will be deducted from the bills. The Transmission Corporation of Telangana Ltd. will not however pay any extra charges for any other reasons, in case the Tenderer is found later on to have misjudged the work/material to execute the work.
- d) Whenever it is found that the Tenderer has received any excess payment by mistake or if any amounts are due to TSTRANSCO due to any reasons, and when it is not possible to recovery such amounts, TSTRANSCO reserves the right to collect the same from any other amounts and Bank Guarantee/Bid Security/Performance Security given by the Tenderer due to or with the TSTRANSCO.

5.1 Payments will be made by way of cheque / demand draft

6 COMPLETION PERIOD:

The over all completion period for this project is as per the Project Data Sheet. For completion period for individual works, refer Schedule-C. Within one week of receipt of intimation from Superintending Engineer/Executive Engineer concerned, the contractor shall take over the approved profiles & tower schedules for the line and site cum Electrical Layout for the Sub-station. Otherwise the date after one week of intimation to the contractor for taking over of approved profiles, tower schedules and site cum Electrical Layout shall be the deemed date of handing over of profiles/Electrical layout and will be taken as date of commencement of work. **The detailed program for execution of works / supplies is enclosed in the Schedule-C. The bidder shall execute all the works / supplies as per the program of works.**

6.1 PENALTY FOR LATE SUPPLIES / COMPLETION:

The completion period mentioned in Schedule-C is the essence of contract. Penalty will be levied as follows for the delay in executing the works or supply of material.

(a) For Works:

In case of delay in erection of the scheduled works after completion period mentioned in Schedule-C, whatever be the reasons, the TSTRANSCO can levy and collect the penalty @ 0.5% per week of delay or part thereof.

However, the sum of the penalties stated above are subject to a maximum of 10% of the total value of the contract. Once the maximum is reached, TSTRANSCO may consider termination of the contract.

The right of the TSTRANSCO to levy penalty shall be without prejudice to its rights under the law including the right to get the balance works executed by other agencies at the risk and cost of the successful bidder. This is in addition to the right of the TSTRANSCO to recover any damages from the contractor and also blacklisting.

In case the successful bidder fails to execute the supplies/works as per the program or in the opinion of purchaser, the supplies/works are progressing at a slow pace, TSTRANSCO reserves its right to get the balance or part of supplies/works executed through other agencies at the risk and cost of the successful bidder, this is in addition to the right of the TSTRANSCO to recover any damage from the contractor and also blacklisting.

6.2 PENALTIES IMPOSED FOR DEFICIENCIES IN QUALITY OF WORKS: During execution of works, if any deficiencies in quality of works is found in deviation to the Specification/ Agreement, a minimum penalty of Rs.5000 to Rs.30,000/- shall be levied for deficiencies as per each category as mentioned below.

Category I : Not using (i) prescribed shoring, shuttering and dewatering equipment, (ii) measurement boxes, (iii) Form boxes for different types of foundations and steel measuring boxes, (iv) not providing adequate number of chairs to the steel reinforcements, (v) not carrying out back filling and compaction of the foundation pits in layers and leveling the tower footings properly, (vi) not ensuring that the excavated earth is dumped at least 2 meters away from the pit etc., and (vii) not providing copings to the tower legs/stubs (viii) not providing water tanker, Earth rammers/Earth vibrators.

Category II : Use of reinforcement steel other than TISCO, VSP and SAIL makes, not using vibrators for effective consolidation of the concrete during foundation works, not using proper templates for firmly keeping the stubs in position when templates are supplied by the contractor & improper fixing of stubs, non ensuring of tower verticality, use of rusted stubs and tower parts if supply is by the contractor, non painting of butt joints and rusted stubs with zinc rich paint immediately after erection of the towers & stringing, non fixing of earth flat to the stub, non deployment of technical personnel for supervision of works by the contractor. Also not fixing of vibration dampers firmly, repair sleeves wherever necessary, not properly fixing of arcing horns both tower side and line side and bird guards etc., as per specification.

Category III : Use of improper grade / quality of raw material like H.B.G. metal, water and sand for concreting, using clogged and / or lump / clotted cement for concreting, not ensuring proper curing for foundation concrete, not ensuring that all the members of the tower are placed in position and firmly fixed with bolts and nuts immediately after erection of tower, not ensuring that Half round seam welding of the nuts before stringing of the line.

For the above deficiencies in the quality of works noticed by the Engineer, penalties shall be levied as given below.

Type of category	First instance (Rs.)	Second instance (Rs.)	Third instance (Rs.)
Category I	5,000/-	10,000/-	15,000/-
Category II	7,500/-	15,000/-	22,500/-
Category III	10,000/-	20,000/-	30,000/-

In the event of fourth instance of noticing the deficiency of quality of works in any of the above categories, the bidder shall be debarred from participating **in future tenders for a minimum period of one year.**

6.3 EXTENSION OF THE COMPLETION DATE

When a work cannot be completed within the completion period indicated for reasons beyond the control of the contractor i.e. due to Force Majeure conditions mentioned below or due to the reasons attributable to TSTRANSCO, the contractor shall represent for the same and extension of time without levying penalty shall be granted only on the issue of an undertaking by the contractor that they will not put forth at a later date, any claims for extra payments towards increased overheads, material/ equipment/works costs etc. during the extended period. It is the sole discretion of the TSTRANSCO to grant extension of completion period.

6.4 FORCE MAJEURE:

- i) The Contractor will not be liable for forfeiture of its performance security, penalty for late delivery, or termination for default if and to the extent that its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.
- ii) For purposes of this clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not restricted to, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.
- iii) If a Force Majeure situation arises, within 15 days from the date of eventuality the Contractor shall notify the Purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Contractor shall continue to perform their obligations under the Contract as far as it is reasonably practice, and will seek all reasonable alternative means for performance not prevented by the Force Majeure event.

6.5 DELAYS ORDERED BY THE PURCHASER

TSTRANSCO reserves the right to suspend and reinstate execution of whole or any part of the Works without invalidating the provisions of the contract. Orders for suspension or reinstatement of the Works will be issued by the Engineer to the Contractor in writing. The time for completion of the works will be extended suitably to account for duration of the suspension. Any costs incurred by the contractor due to increased overheads, idling of labour etc., as a result of such suspension will not be reimbursed to the contractor.

6. RESPONSIBILITY OF THE CONTRACTOR:

The successful bidder is responsible

- a) For the safe delivery of the goods in good condition at destination and execution of the works ensuring quality. He should acquaint himself of the conditions obtaining in regard to supply of the materials.
- b) To mobilize and plan for the labour and TSTRANSCO shall not be responsible for any mismatch of work on account of whatever so the reasons and the successful bidder has to bear the costs towards ideal labour on account of mismatch of work if any.
- c) To submit the work/ material bills, (preferably monthly for work bills and for materials immediately after receipt of them at site) promptly and submit all the required enclosures with out fail. TSTRANSCO shall not be responsible for any delayed payments whatever so the reasons.

The bidders are requested to study all the existing conditions and all the above aspects of the project while quoting itself and no extra claim will be entertained on the above reasons.

8. CLAIMS DUE TO DELAYS BEYOND CONTRACTOR'S CONTROL:

The contractor shall not be entitled to claim compensation on account of delays or hindrances to the works for any cause whatsoever. Should the cause of delay or hindrance not be the responsibility of the contractor, the Chief Engineer will consider whether it is possible or not to grant extension of time to compensate for this delay or hindrance. The contractor will not, however, be eligible for any compensation by way of increase in the rates for the works executed beyond the contract period.

9. RECOVERY OF MONEY FROM CONTRACTOR IN CERTAIN CASES:

In every case in which provision is made for recovery of money from the contractor, the TSTRANSCO shall be entitled to retain or deduct the amount thereof from any moneys that may be due or may become due to the contractor under these present and/or under any other contract or contracts or any other account whatsoever, including Bank Guarantees, Bid Security/Performance Security etc., held up by the TSTRANSCO.

10. WAY LEAVES & TREE CUTTING IN TRANSMISSION LINE CORRIDOR:

Payment of compensation for damaged crops or fruit bearing trees shall be initially made by the contractor, which will be reimbursed by TSTRANSCO later on. The compensation so payable in respect of damaged crops shall be based on the assessment of MRO. In respect of the trees, compensation shall be payable as per the guidelines issued in T.O.O. Dir (Transmission) Ms.no.238, Dt.10.11.2006. The contractor shall take up the payment of compensation amount only after written approval by the Executive Engineer. The payment shall be made in the presence of representatives of TL&SS, Accounts and Vigilance wings of TSTRANSCO. The Superintending Engineer/O&M shall finalize the compensation claims.

11. TERMINATION OF CONTRACT:

If it is found that Progress of works are not commensurate with the program of completion or if the contractor does not fulfill his obligations as per the terms of the specification TSTRANSCO will be entitled to terminate the contract in part or full by giving 15 days notice and get the balance works completed through other agencies at the contractor's cost and risk.

12. ARBITRATION

All and any disputes or differences arising out of or touching the order based on this specification shall be decided by a panel of arbitrators as detailed below:

Sl. no.	Value of Claim	Panel of Arbitrators
a)	Disputes involving amounts up to Rs.10,000/- and below.	Superintending Engineer of the TSTRANSCO other than the circle to which the disputes relate.
b)	Disputes involving amounts ranging from Rs.10,001 to Rs.50,000/-	Any Chief Engineer of the TSTRANSCO.

There shall not be any reference of disputes, the value of which is above Rs.50000/- to arbitration. The parties shall approach the competent Civil Courts situated in Hyderabad only if any such disputes shall arise involving more than Rs.50,000/-.

A reference for adjudication under this clause shall be made by either party to the contract, within one year from the date of intimating the contractor of preparation of final bill or his having accepted the payment.

13. The overhead charges include the following elements:

- Site accommodation, setting up plant, access road, water supply, electrical and general site arrangements.
- Office furniture, equipment and communications
- Expenditure on:
 - Corporate office of contractor
 - Site supervision
 - Documentation and "as built" drawings
 - Mobilization/de-mobilization of resources
 - Labour camps with minimum amenities and transportation to work sites
 - Light vehicles for site supervision including administrative and managerial requirements
 - Laboratory equipment and quality control including field and laboratory testing.
 - Minor T&P and survey instruments and setting out works, including verification of line, dimensions, trail pits and bore holes, where required.
 - Watch and ward.
 - Traffic management during construction.

SCHEDULE – I

PARTICULARS OF REGISTRATION OF THE BIDDER

Sl. No.	Details	:	To Be filled by the Bidder		
1.	Name & address of the Firm / Bidder	:			
2.	State whether a) Individual b) Registered partnership firm c) Unregistered partnership firm d) Pvt. Ltd. Co. e) Public Ltd. Co. f) Others (Please specify)	:			
3.	Registrations under the following If Yes fill the registration No. and enclose a copy of the registration certificate	:	Yes / No	Registration No.	Whether copy enclosed/ not
a)	Class 'A' registration at CEIG	:			
b)	Company of registration Act.	:			
c)	Large, medium or small scale industry at Industries Dept.	:			
d)	Central Sales Tax act	:			
e)	APVAT (State Sales Tax)	:			
f)	Excise Department (For manufacturers only)	:			
g)	Service Tax Act	:			
h)	Registration Under Labour Laws	:			
i)	Any other state sales tax law (please specify)	:			
4.	Name and full address of the partners (in case of partnership firm) or directors (in case of Ltd. Co.)	:			
5.	Name and full address of the JV partner (in case of JV)	:			
6.	Authority of the person signing the contract to represent the company	:			
7.	Whether Photostat copies of the following documents attested.	:			
a)	Copy of partnership deed.	:			
b)	Copy of Memorandum of Articles.	:			
c)	JV Agreement (in original)	:			
d)	Authority of the partner/company to enter into joint venture business in memorandum of association.	:			
e)	A certified copy of the board resolution (in case the partner is a company) according permission to entering into the joint venture	:			
f)	A certified copy of the board resolution (in case the partner is a company) according permission for affixing the company seal on the joint venture deed.	:			

Signature of the Bidder/

(along with the seal)

SCHEDULE - II

DETAILS OF TECHNICAL PERSONNEL OF THE BIDDER

Name of the Bidder/the partners

Sl. No.	Designation	Name & Qualifications	Professional experience and details of works carried out	Remarks
1	<u>Construction Engineer</u>			
2	<u>Supervisory Staff</u>			
i)				
ii)				
iii)				
iv)				

Signature of the Bidder/

(Along with the seal)

SCHEDULE - III

UNDER TAKING WITH REGARDS TO THE QUALIFICATION REQUIREMNTS

I. PHYSICAL EXPERIENCE:

The Physical Experience as per the Qualification Requirement is =

The above Qualification are meeting by considering the following works done by us=

(i)

(ii)

(ii)

Totals for each type of works. The relevant Certificates are to be attached.

Signature of the Bidder

Name:

Designation:

Seal:

Date:

Place:

SCHEDULE - IV

UNDERTAKING TO BE GIVEN BY THE BIDDER

I/We _____ representing the Company/ Partnership Firm/Contractor responding to the bid invitation by the TSTRANSCO vide Specification No. _____ hereby sincerely and solemnly affirm and state as follows:

(Strike out whichever is not applicable)

- (a) That myself or any of the representative of my Company/Firm do not have any relatives as deferred in appended Annexure in the TSTRANSCO/DISCOM.

OR

- (b) That the following officers/employees of the TSTRANSCO/DISCOM are related to me and to my representative of my Company/Firm and their status in the TSTRANSCO/DISCOMS is as under:

S. No.	Name of the Officer/ Employee	Designation and Place of working	TSTRANSCO/ DISCOM	Relationship
1.				
2.				
3.				
4.				
5.				
6				

It is certified that the information furnished above is true to the best of my knowledge and belief. It is hereby undertaken that in the event of any of the above information found to be false or incorrect at a later date, the TSTRANSCO/DISCOM is entitled to terminate the contract agreement entered into besides recovering damages as may be found necessary with due notice.

Signature of the Bidder/

(Along with the seal)

ANNEXURE TO SCHEDULE - IV

LIST OF RELATIVES:

- | | |
|---------------------------------------|--------------------------------------|
| 1. Father | 14. Daughter's Husband |
| 2. Mother (including Step .Mother) | 15. Daughter's Son |
| 3. Son (including Step Son) | 16. Daughter's Son's Wife. |
| 4. Son's Wife | 17. Daughter's Daughter |
| 5. Daughter (including Step Daughter) | 18. Daughter's Daughter's Husband |
| 6. Father's Father | 19. Brother (including Step Brother) |
| 7. Father's Mother | 20. Brother's Wife |
| 8. Mother's Mother | 21. Sister (including Step Sister) |
| 9. Mother's Father | 22. Sister's Husband. |
| 10. Son's Son | 23. Son's Wife's Father |
| 11. Son's Son's Wife | 24. Son's Wife's Mother |
| 12. Son's Daughter | 25. Daughter's Husband's Father |
| 13. Son's Daughter's Husband | 26. Daughter's Husband's Mother |

SCHEDULE - V

DECLARATION TO BE GIVEN BY THE BIDDER FOR TAKING UP THE AWARDED WORKS

On award of work against Specification No.: e – SEOMCWGL03/2021-22

We will take up the works promptly and achieve progress as per the programme communicated for each of the work. If I/We _____ do not show the progress as per Schedule communicated for each work and the progress is (are) proved to be very slow which may result in delay in completion, the TSTRANSCO can cancel all such works and may be got executed through alternate agencies at our cost and risk and without prejudice to the right of TSTRANSCO to levy any penalties as per the terms of contract.

Signature of the Bidder/

(Along with the seal)

SCHEDULE -VI

BANK ACCOUNT DETAILS FOR RTGS

1. Name of the Bank :
2. Name of the Branch :
3. Branch Code :
4. City :
5. Account No. :
6. MICR No. :
7. IFSC No. :
8. Income Tax PAN No. :
9. GST Registration No. :
10. Date of GST Registration :
11. Place of GST Registration :

Signature of the Bidder/

(Along with the seal)

**SCHEDULE -VII
CHECK LIST**

Only **Positive** Confirmations on the following will make the bid responsive.

Indicate **Yes/No**

1	State whether the work / materials offered conforms to the relevant TSTRANSCO's / ISS Specifications and drawings.	
2	State whether Qualification and Performance particulars are uploaded along with necessary performance certificates in PDF formats.	
3	State whether copies of 'Tax Deducted at Source' certificates are uploaded with proper attestation in PDF formats.	
4	State whether copy of 'Service Tax Registration Certificates' are uploaded with proper attestation in PDF formats.	
5	State whether copy of 'A-Grade license certificate' issued by CEIG is uploaded with proper attestation in PDF formats.	
6	State whether copy of 'Income Tax registration / PAN registration certificate' are uploaded with proper attestation in PDF formats.	
7	State whether complete Quantity is quoted. (Bidder must quote for 100% of quantities of all items)	
8	State whether scanned copy of DD for Bid Security is uploaded in PDF format.	
9	State whether Clause 1.0 of Section II Financial is accepted.	
10	State whether Bid Validity is offered as per specification.	
11	State whether TSTRANSCO's Payment Terms are accepted.	
12	State whether TSTRANSCO's completion period & Penalty Clause is accepted.	
13	State whether TSTRANSCO's Delivery Schedule / Completion period is accepted.	
14	Are you prepared to furnish Performance Security B.G. if order is placed?	
15	State whether TSTRANSCO's Guarantee Clause is accepted.	
16	State whether Bid form uploaded	
17	State whether Bank's Certificate for availability of Credit facilities are uploaded	
18	State whether all the Schedules (I to VI)are uploaded.	
19	State whether copies of type test certificates for equipment/materials are uploaded.	
20	State whether all the clauses are accepted.	

**Signature of Bidder
(Along with the seal)**

(A) BID SECURITY FORM

Whereas. (hereinafter called "the Bidder") has submitted its Bid dated (date of submission of bid) for the supply, erection, testing and commissioning of. (Description of the work) (hereinafter called "the Bid").

KNOW ALL PEOPLE by these presents that WE(Name of bank) having our registered office at(address of bank)(hereinafter called "the Bank"), are bound unto(name of Purchaser) (hereinafter called "the Purchaser") in the sum of Rs..... for which payment well and truly to be made to the said Purchaser, the Bank binds itself, its successors, and assigns by these presents. Sealed with the Common Seal of the said Bank this ____day of ____ 20 .

THE CONDITIONS of this obligation are:

1. If the Bidder
 - a) withdraws its Bid during the period of bid validity specified by the Bidder on the Bid Form; or
 - b) does not accept the correction of errors in accordance with the Bid SpecificationOR
2. If the Bidder, having been notified of the acceptance of its bid by the Purchaser during the period of bid validity;
 - (a) fails or refuses to furnish the performance security, in accordance with the Bid Specification.
 - (b) fails or refuses to execute the Contract Form if required; or

We undertake to pay the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it, duly mentioning the B.G. No. and date.

We undertake TSTRANSCO that once BG issued, it will not be cancelled with in its validity period with out written consent of TSTRANSCO, even though bidder produces original Bank Guarantee. *(In e-procurement the bidder will upload the scanned copy of the Bid Security and shall not submit the original BG to TSTRANSCO, Hence for cancellation of BG, written consent from TSTRANSCO is required.)*

This guarantee will remain in force up to and including _____ **(mention the date after the period of the bid validity + 45 days)** and any demand in respect thereof should reach the Bank not later than the above date.

.....
(Signature of the Banker)

NOTE: This will be executed on a Rs.100/- non-judicial stamp paper issued by a scheduled Bank.

(B) PERFORMANCE SECURITY FORM

To: _____(Name of Purchaser)

WHEREAS.....(Name of the Contractor/ Company) (hereinafter called "the Contractor") has undertaken, in pursuance of Contract No.....dated.....20 to supply/erect (Description of work) (hereinafter called "the Contract").

AND WHEREAS it has been stipulated by you in the said Contract that the contractor will furnish you with a Bank Guarantee by a recognized Bank for the sum specified therein as security for compliance with the Contractor's performance obligations in accordance with the Contract.

AND WHEREAS we(Name of the Bank with full address) have agreed to give the Contractor a Guarantee.

THEREFORE WE hereby affirm that we are Guarantors and responsible to you, on behalf of the Contractor, up to a total of Rs. (Amount of the Guarantee in Words and Figures) and we undertake to pay you, upon your first written demand declaring the Contractor to be in default under the Contract and without cavil or argument, any sum or sums within the limit of Rs..... (Amount of Guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the. ... day of. 20 .

Signature and Seal of Guarantors

.....

Date.20 .

.....

Address:.....

.....

.....

NOTE: This will be executed on a Rs.100/- non-judicial stamp paper by a scheduled Bank.

(C) BID FORM

Date.

TO: (Name and Address of Purchaser)
Gentlemen and/or Ladies:

Having examined the Bidding documents, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to execute (Description of Work) in conformity with the said bidding documents for the sum quoted by us or such other sums as may be ascertained in accordance with the schedule of prices attached herewith and made part of this Bid.

We undertake, if our Bid is accepted, to complete the work in accordance with the completion period specified in the Schedule-D.

If our Bid is accepted, we will submit the Performance Bank Guarantee as per specification for the due performance of the Contract, in the form prescribed by the Purchaser.

We agree to abide by this Bid upto (for the Bid Validity Period) specified in Clause () and it will remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal contract is prepared and executed, this Bid, together with your written acceptance thereof and your notification of award, will constitute a binding Contract between us.

We understand that you are not bound to accept the lowest or any bid you may receive.

We certify / confirm that we comply with the eligibility requirements as per clause () of the bidding documents.

Dated this.day of.20

[Signature]
[in the capacity of]

Duly authorized to sign Bid for and on behalf of

**(D) FORMAT FOR BANK'S CERTIFICATE TOWARDS
AVAILABILITY OF CREDIT FACILITIES**

BANK CERTIFICATE

This is to certify that M/s. _____ (Full Name & Address) _____ who are submitting their bid to TRANSMISSION CORPORATION OF TELANGANA LIMITED against their Bid specification vide ref. No. _____ & dated _____.

M/s. _____ is our Customer for the past _____ years. Their financial transactions with our Bank have been satisfactory. They enjoy the following fund based and non fund based limits including for guarantees, L/C and other credit facilities with us against which the extent of utilization as on date is also indicated below:

Sl.No.	Type of Facility	Sanctioned Limit as on Date	Utilisation as on Date

This letter is issued at the request of M/s. _____.

Sd/-
Name of Bank _____
Name of Authorised Signatory _____
Designation _____
Phone No. _____
Fax No. _____
Address _____

SEAL OF THE BANK

LIST OF APPROVED MANUFACTURERS

Sl. No	Material / Equipment		Name of the Manufacturer
1)	Transmission Line Towers and Sub Station Structures fabricators	i)	M/s. Bajaj Electricals Ltd., Mumbai
		ii)	M/s. RPG Transmission Ltd., New Delhi
		iii)	M/s. Jyothi Structures Ltd., Mumbai
		iv)	M/s. BS Transcom, Hyderabad.
		v)	M/s. KEC International Ltd., Mumbai
		vi)	M/s. Kalpataru Power Transmission Ltd., Gandhinagar
		vii)	M/s. Hyundai Electrical Transmission Ltd., Gurgaon
		viii)	M/s. Sujana Towers Ltd., Hyderabad
		ix)	M/s. Deepak Galvanising & Engg. Indus. Pvt. Ltd., Hyderabad
		x)	M/s. Sangam Structures Ltd., Allahabad
		xi)	M/s. ICOMM Tele Ltd., Hyderabad
		xii)	M/s. Aster Teleservices Pvt. Ltd., Hyderabad
		xiii)	M/s. Hyderabad Steels Ltd., Hyderabad
		xiv)	M/s. R.S Engineering Co., Hyderabad
		xv)	M/s. Venkateswara Fabricators Ltd., Hyderabad
		xvi)	M/s. Vertex Engineers., Hyderabad
		xvii)	M/s. Kusuma Enterprises, Hyderabad
		xviii)	M/s. K.Ramachandra Rao Transmission & Projects Pvt.Ltd., Hyd.
2	Galvanised Bolts and Nuts and Washers	i)	M/s Nexo Industries, Ludhiana
		ii)	M/s HR Steel Industries, Howrah
		iii)	M/s NL Engineers Pvt. Ltd., Mohali
		iv)	M/s Himalaya Engg. Works Pvt. Ltd., Hyderabad
		v)	M/s Naveen Metal Industries, Kolkata (Washers)
		vi)	M/s Spring Lock Industries, Vadodara (Washers)
		vii)	M/s. Remax (India), Ludhiana
		viii)	M/s. BRK Industries, Ludhiana
3	Control and Relay Panels	i)	M/s G.E. Power Controls, Bangalore
		ii)	M/s C&S Electric Ltd,
4	LT AC Panels	i)	M/s G.E.Power Controls, Bangalore
		ii)	M/s Easun Reyrolle Ltd., Hossur
		iii)	M/s. Areva T & D India Ltd, Chennai
		iv)	M/s ABB Ltd., Baroda
		v)	M/s Popular Switchgears Pvt Ltd., Nasik
		vi)	M/s. Jain Enterprises, Rajahmundry
		vii)	M/s Bose Corporation, Kolkata
		viii)	M/s Bodapati Controls
5)	Steel Brands for use in Reinforcement and for Structures & Towers		1) VSP 2) SAIL and 3) TISCO
6)	Cement Brands		1) ACC Limited 2) Kesoram Cements 3) Orient Cements 4) Zuari Cements 5) CCI Limited 6) Andhra Cements 7) Coramandel Cement 8) Raasi Cement 9) Sri Vishnu Cements 10) Madras Cements 11) Ultra Tech Cement Limited – APCW 12) KCP Limited 13) Penna Cements 14) Panayam Cement 15) Grasim 16) Rajashree Cement 17) Mysore Cement 18) Century Cement 19) Ambhuja Cement and 20) Priya Cement

LIST OF THE APPROVED BANKS FOR ISSUING BG /DD

S.No.	NAME OF THE BANK
1	Allahabad Bank
2	Andhra Bank
3	APCO. Bank, Main Branch, Hyderabad.
4	Bank of Baroda
5	Bank of India
6	Bank of Maharashtra
7	Bank of Punjab Ltd
8	Central Bank of India
9	Centurion Bank Ltd
10	City Bank
11	Corporation Bank
12	Federal Bank
13	HDFC Bank,
14	HSBC BANK
15	I.C.I.C.I Bank
16	I.D.B.I. Bank
17	Indian Bank
18	Indian Overseas Bank
19	ING Vysya Bank Ltd
20	Karnataka Bank
21	Karur Vysya Bank
22	Kotak Mahindra Bank
23	Lakshmi Vilas Bank
24	Oriental Bank of Commerce
25	Punjab National Bank
26	Standard Chartered Bank
27	State Bank of India and other State Bank Group Banks / Associate Banks.
28	Syndicate Bank
29	U.T.I. Bank Ltd
30	<u>Union Bank Of India</u>
31	Vijaya Bank
32	YES Bank Ltd
33	Development Credit Bank

COMPLETION PERIOD - SCHEDULE – C

Program of execution:

The successful bidder shall execute the works as per the program given in below work.

The over all completion period of the project is as per the Project Data Sheet. The commencement date of the Project will be reckoned from the date of issue of detailed Contract award letter or from the date of issue of the approved layout for Sub-Station which ever is later.

1	Supply, erection of 1No. (P+0) type intermediate tower in between Loc.No.99 to 100 for improving ground clearance of 132KV Warangal – Kalvasrirampur line and 132KV Jammikunta – RTS-B line in OMC Circle, Warangal.	3 months
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I/We agree to the above-mentioned completion period.

**Signature of the Bidder/
(Along the seal)**

TRANSMISSION CORPORATION OF TELANGANA LIMITED

SCHEDULE – B

SUMMARY OF PRICES

SPECIFICATION No: e- SEOMCWGL 03/2021-22

NAME OF THE WORK Supply, erection of 1No. (P+0) type intermediate tower in between Loc.No.99 to 100 for improving ground clearance of 132KV Warangal – Kalvasrampur line and 132KV Jammikunta – RTS-B line in OMC Circle, Warangal.

Sl. No.	Item	Total Price
1.	Total value of schedule items (Quantities and prices as per Schedule appended to the specification)	Rs. 6,33,528.00 (Rupees Six Lakhs Thirty Three Thousand Five Hundred and Twenty Eight only) (Total Estimated Value)
2.	Percentage Rate quoted below / at par / excess over the total value vide item 1 above	
	a) In figures	
	b) In words	
3.	Total value of schedule after loading the percentage rate quoted against S.No. 2 above	
	a) In figures	Rs.
	b) In words	

NOTE:

1. Percentages is to be rounded off up to two decimals.
2. Amounts are to be rounded off to nearest rupee.
3. The total estimated value under item 1 and total value offered by the bidder under item 3 are inclusive of all taxes and the details of taxes applicable are given in the Volume-I of the specification.

**SIGNATURE OF THE BIDDER
WITH DATE & SEAL**

Specification No. : Bid number e-seomcwg103/21-22

Scope of Supply / Work : Erection of 1 No (P+0) type intermediate tower in between loc no 99 and 100 for improving ground clearance of 132KV warangal kalvasrirampur and 132kv jammikunta RTS-B line

Schedule of Material Quantities and Prices (PR No.1200003289)

(All Financial Figures in Rs.)

ERP Item No.	Schd. No.	Material Code	Material Description	HSN Code	Qty.	Unit	Total price/Unit	GST Rate(%)	GST/ Unit	Total Landed Cost /Unit	Total Amount Excl. GST	Total Amount Incl. GST	
3		3000000312	SINGLE SUSPENSION HARDWARE FOR ACSR BEAR CONDUCTOR	73269099	39	SET	1,394.07	18%	250.93	1,645.00	54,368.73	64,155.00	
4		4000003188	SINGLE TENSION HARDWARE FOR BEAR	73269099	6	SET	2,205.98	18%	397.08	2,603.06	13,235.88	15,618.36	
5		3000001624	VIBRATION DAMPERS FOR ACSR BEAR CONDUCTOR	73269099	18	NO	733.48	18%	132.03	865.51	13,202.64	15,579.18	
6		4000002713	NUMBER PLATE	83100010	1	NO	245.45	18%	44.18	289.63	245.45	289.63	
7		4000002911	RYB PHASE PLATE	83100010	1	NO	230.76	18%	41.54	272.30	230.76	272.30	
8		4000000279	132KV DANGER BOARD	83100010	1	NO	238.94	18%	43.01	281.95	238.94	281.95	
10		40000442	16MM GI 'U' BOLTS	73181500	1	NO	245.06	18%	44.11	289.17	245.06	289.17	
NOTE: CGST and SGST amounts shall be shown in separate columns in the vendor invoices											Total	81,767.46	96,485.59

Schedule of Service Quantities and Prices (PR No.1200003289)

(All Financial Figures in Rs.)

ERP Item No./ Sub-Item No.	Schd No.	Service Code	Service Description	HSN Code	Qty.	Unit	Rate/Unit	Total Base Value	GST (%)	Total GST	Corpus Fund	Total Tax Portion	Total Amount
1			ELECTRICAL PORTION										
1 /1		CL1-1	Check Survey, Peg Marking The Tower Positions On Ground, Conforming To The Approved Profile And Tower Schedules Using Gps, Total Stations, Digital Theodolites Etc.the Ratels Also Applicable For Re-check Survey If Any Done Due To Row Problems" 220 & 132kv Special Allowance %	998344	1.3	RKM	4,228.59	5,497.17	18%	989.49	N/A	989.49	6,486.66



ERP Item No./ Sub-Item No.	Schd No.	Service Code	Service Description	HSN Code	Qty.	Unit	Rate/Unit	Total Base Value	GST (%)	Total GST	Corpus Fund	Total Tax Portion	Total Amount
1 / 2		CL10-A	Setting Of Stubs With Stub-setting Template : Erection Of Stubs, Stub Template, FixingOf Jacks For Supporting Template, Allignment And Levelling For Exact Location Of StubsOf Stubsetting Template, Dismantling Of Template After Completion Of Initial Curing OfC.c., Movement Of Template From One Location To Other Location (a Minimum Lead Of 1 KmIs Adopted). 220 & 132kv 132 Kv P, R & S-type Towers Special Allowance %	995429	1	LOC	7,547.49	7,547.49	18%	1,358.55	N/A	1,358.55	8,906.04
1 / 3		CL18-6-A	Erection Of Tower Structures, Including All Types Of Extensions Except Jc Type Towers(stub Template Erection And Dismantling Are Not To Be Included) (including 3 Mtr., 6Mtr. , 9 Mtr., & 12 Mtr. Extensions) 220 & 132kv Special Allowance % , A)Works under SD	995429	2.928	MT	7,375.23	21,594.67	18%	3,887.04	N/A	3,887.04	25,481.71
1 / 4		CL43-9	Earthing Of Towers Including Cost Of Excavation, Back-filling, Including Cost Of 25 MmDia 2.5 Mm Thick, Class 'c' G.i. Pipe Of 3.00 Mtrs Length With 50x6 Mm G.i. Flat 4.05Mtrs Long, Bh Coke, Salt Etc., And Measuring Tower Footing Resistance. 220 & 132kv Special Allowance %	995429	1	NO	4,336.34	4,336.34	18%	780.54	N/A	780.54	5,116.88
1 / 5		OM35-J	Re-stringing Of Power Conductor On The Existing Lines (for Correction Of Sag) IncludingFixing Of Tension Insulators / Suspension Insulators, Hardware And Accessories, RoughSagging, Jointing, Tensioning, Clipping And Fixing Of Performed Armour Rods AndVibration Dampers, Measuring Ground Clearances Wherever Necessary. Which Includes TheWorks Involved In The Crossing Of Lt, 11 Kv & 33 Kv Power Lines Viz Dismantling AndRestriring Of Conductor. 220 & 132kv 6. Nos. Bear Conductors Special Allowance % , A)Works under SD	995429	1.9	KM	70,759.86	134,443.73	18%	24,199.87	N/A	24,199.87	158,643.60
1 / 6		CL47-13	Half Round Welding Of G.i.bolts And Nuts Of Towers	995429	306	EA	26.24	8,029.44	18%	1,445.30	N/A	1,445.30	9,474.74



ERP Item No./ Sub-Item No.	Schd No.	Service Code	Service Description	HSN Code	Qty.	Unit	Rate/Unit	Total Base Value	GST (%)	Total GST	Corpus Fund	Total Tax Portion	Total Amount
			In The Section Tween Ground Level & Upto Bottom X-arm Level Including All Bolts Nnecting The Bracings At The Bottom X-arm Level And Painting The Led Portion With One Coat Of Zinc Rich Paint. 220 & 132kv Special Allowance % , A) Works under SD										
1 / 7		LNE0000029	Transportation Of Material In Line Works	996519	1	TO	12,198.00	12,198.00	18%	2,195.64	N/A	2,195.64	14,393.64
1 / 8		100000042	Insurance @ 0.5% (cost Of Equipmnet +erection Charges) (insurance including GST@18%)	997137	1	EA	3,823.85	3,823.85	18%	688.29	N/A	688.29	4,512.14
2			CIVIL PORTION'										
2 / 1		SM01019	Earthwork Excavation In All Types Of Soils (including Hdr, Soft Rock, F&f) Which Can Be Excavated With Pick Axe And Crow Bars And Do Not Require Blasting In All Conditions Such As Dry, Wet And Slushy Etc. Covering Initial Lead And Lift Etc And Backfilling The Foundations (after Laying Foundations) With Excavated Earth And Consolidation In Up To 0.15 M Layer And Constructing Of Platforms 150mm Height Around Foundations Utilizing The Excavated Earth Etc. Complete As Directed By Er - In - Charge.	995429	133	M3	265.05	35,251.65	18%	6,345.30	35.25	6,380.55	41,632.20
2 / 2		SM00006	Extra Towrds Dewatering Charges Over An Above The Excavation Rate For Excavated Earth Quantity Where Water Table Met At 0.75m Depth Below G.l	995429	67	M3	227.11	15,216.37	18%	2,738.95	15.22	2,754.17	17,970.54
2 / 3		SM00003	Excavation In Hard Rock (requiring Blasting) The Rate Includes Labour Charges, Cost Of Blasting Materials, Tools And Tackles, Safety Measures, Disposal Of Unuseful Excavted Material At All Leads And Lifts, Complete For Finished Item Of Work As Per Directions Of The Engineer-in-charge	995429	4	M3	931.12	3,724.48	18%	670.41	3.72	674.13	4,398.61



ERP Item No./ Sub-Item No.	Schd No.	Service Code	Service Description	HSN Code	Qty.	Unit	Rate/Unit	Total Base Value	GST (%)	Total GST	Corpus Fund	Total Tax Portion	Total Amount
2 /4		SM01006	Excavation In Hdr, Soft Rock, F&f (requiring Blasting) Where Ever Necessary. The Rate Includes Labour Charges, Cost Of Blasting Materials, Tools And Tackles, Safety Measures, Disposal Of Unuseful Excavated Material At All Leads And Lifts, Complete For Finished Item Of Work As Per Directions Of The Engineer-in-charge. (for Foundation Works)	995429	4	M3	367.07	1,468.28	18%	264.29	1.47	265.76	1,734.04
2 /5		SM00007	Stone Crusher Dust Filling Below The Foundations As Per The Standard Specifications Of Apdss In Uniform Horizontal Layers Including Cost And Conveyance Of All Materials, Watering And Ramming, Tools & Tackles, All Labour Charges, All Leads & Lifts Etc, Complete For Finished Item Of Work As Per Directions Of The Engineer-in-charge.	995429	7	M3	1,577.89	11,045.23	18%	1,988.14	11.05	1,999.19	13,044.42
2 /6		SM00258	Laying Of Concrete (1:4:8) Mix Using 40mm Hbg Machine Crushed Metal Forming To Is 383 For All Types Of Foundations Including Cost & Conveyance Of L Materials, Labour Charges, Water Lead, Tools And Tackles, All Leads & Lifts C., Complete For Finished Item Of Work As Directed By The Engineer In Charge. (is-456)	995429	4	M3	4,660.56	18,642.24	18%	3,355.60	18.64	3,374.24	22,016.48
2 /7		SM00845	Providing High Yield Strength Deformed (hysd)/ Thermo Mechanically Treated (tmt) (fe500/ 500d/ 550d) Grade As Per Is 1786-1979) Of Tisco/ Sail/ Vsp/jindal Make, Different Diameters For Rcc Works , Including Labour Charges For Straightening, Cutting, Bending To Required Sizes And Shapes, Placing In Position With Cover Blocks Of Approved Materials And Size And Tying And Lap-splicing With Binding Wire Of 18 Swg, Forming Grills For Reinforcement Work As Per Approved Designs And Drawings, Including Cost	995429	0.205	MT	55,255.39	11,327.35	18%	2,038.92	11.33	2,050.25	13,377.60



ERP Item No./ Sub-Item No.	Schd No.	Service Code	Service Description	HSN Code	Qty.	Unit	Rate/Unit	Total Base Value	GST (%)	Total GST	Corpus Fund	Total Tax Portion	Total Amount
			AndConveyance Of Steel Bars, Including All Wastages Such As Overlaps, Couplings, Chairs,Spacer Bars Including Cost And Conveyance Of Binding Wire, Cover Blocks And AllIncidental, Operational, Labour Charges Such As Cutting, Bending, Placing In Position,Tying Etc., Complete For Finished Item Of Work In All Floors.(Apss No.126) - SwitchYard Works And Line Works										
2 /8		SM00259	Rcc M- 20 Nominal Mix (cement 400 Kgs) Using 20mm Size Graded Machine Crushed HardGranite Metal (coarse Aggregate) From Approved Quarry Including Cost And Conveyance OfAll Materials Like Cement, Fine Aggregate (sand) Coarse Aggregate, Water Etc., To SiteAnd Including All Operational, Incidental And Labour Charges Such As Machine Mixing,Laying Concrete, Curing And Centering, Etc.,complete But Excluding Cost Of Steel And ItsFabrication Charges For Finished Item Of Work.(cement 400 Kg , Sand 0.45 Cum And Metal0.90 Cum)	995429	16	M3	9,839.17	157,426.72	18%	28,336.81	157.43	28,494.24	185,920.96
2 /9		SM00262	Filling Around The Foundations If Required Where Ever Necessary With Borrowed Gravel AsPer The Standard Specifications Of Apdss In Uniform Horizontal Layers (0.15) IncludingCost And Conveyance Of All Materials, Watering And Ramming, Tools & Tackles, All LabourCharges, All Leads & Lifts Etc, Complete For Finished Item Of Work As Per The DirectionsOf The Engineer-in-charge.	995429	4	M3	294.37	1,177.48	18%	211.95	1.18	213.13	1,390.61
2 /10		SSC0000 151	Seignioarage Charges Including Smet (Seignioarage charges including GST@18%)	995429	2152.2	RS	1.00	2,152.20	18%	387.40	2.15	389.55	2,541.75

NOTE: CGST and SGST amounts shall be shown in separate columns in the vendor

Total 454,902.69

537,042.62



invoices

Grand Total: 633,528.21

Amount in words : Six Lakh Thirty Three Thousand Five Hundred Twenty Eight Rupees Twenty One Paise



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