

(e-Procurement Tender Notice)

E - Tender Schedule for

Supply, Installation & Commissioning of 123 No's of 24 Watt Single Arm and 20 No's of 24W X 4 Arm Solar LED Street Lights in Project Affected Villages of NTPC Ramagundam with 05 Years of Comprehensive Maintenance Contract (CMC) in Telangana State.

Tender Notice No: TGREDCO/NTPC/143 No's SSL/2026-27., Dated. 23.09.2026

CLOSING DATE: 07-10-2026 at 4:00 PM



**TELANGANA RENEWABLE ENERGY DEVELOPMENT CORPORATION LTD
(TGREDCO)**

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SECTION – I
INVITATION FOR BIDS (IFB)

Name of Work: Supply, Installation & Commissioning of 123 No's of 24 Watt Single Arm and 20 No's of 24W X 4 Arm Solar LED Street Lights in Project Affected Villages of NTPC Ramagundam under CSR activity with 05 Years of Comprehensive Maintenance Contract (CMC) in Telangana State.

TGREDCO shall conduct negotiations separately for the projects, if required or as per provisions of tender bid document.

TGREDCO reserves the right to cancel / withdraw this invitation for bids without assigning any reason and shall bear no liability whatsoever consequent upon such a decision.

DISCLAIMER:

1. Telangana Renewable Energy Development Corporation Limited (TGREDCO) reserves the right to modify, amend or supplement this document including all formats and Annexures.
2. While this document has been prepared in good faith, neither TGREDCO nor their employees or advisors make any representation or warranty, express or implied, or accept any responsibility or liability, whatsoever, in respect of any statements or omissions herein, or the accuracy, completeness or reliability of information, and shall incur no liability under any law, statute, rules or regulations as to the accuracy, reliability or completeness of this tender document, even if any loss or damage is caused by any act or omission on their part.

INTERPRETATIONS:

1. Words comprising the singular shall include the plural & vice versa.
2. An applicable law shall be construed as reference to such applicable law including its amendments or re-enactments from time to time.
3. A time of day shall save as otherwise provided in any agreement or document be construed as a reference to Indian Standard Time.
4. Different parts of this contract are to be taken as mutually explanatory and supplementary to each other and if there is any differentiation between or among the parts of this contract, they shall be interpreted in a harmonious manner so as to give effect to each part.
5. The table of contents and any headings or sub headings in the contract has been inserted for case of reference only & shall not affect the interpretation of this agreement.

SECTION – II**Instructions to the Bidder (ITB) and General Conditions****2. Introduction**

- The work will be awarded to the lowest bidder i.e., L1 bidder only.

2.1 Bid Information Sheet

The brief details of the tender bid are as under:

Bid Document No.	TGREDCO/NTPC/ 143 No's SSL/2026-27., Dated. 23.09.2026	
Bid Document fee (Non-refundable)	Rs.11,800/- incl. 18% GST (to be paid Online from any Scheduled Bank to M/s TGREDCO (non-refundable & non-adjustable)) (To be paid Online from any Scheduled Bank to TGREDCO)	
	Name of Bank	CANARA BANK,
	Branch Name	Mukramjahi Road, Hyderabad
	Account No.	30242010095314,
	Name of Account Holder	TGREDCO
	IFSC Code	CNRB0013024 (fifth, sixth & ninth characters are 0 'zero'). The copy of the acknowledgment is to be submitted to TGREDCO
Bid Security Deposit	Bid Bond (BID SECURITY DEPOSIT) for Rs.1,50,000/- (Rupees One Lakh Fifty Thousand Only) to be paid Online from any Scheduled Bank to M/s TGREDCO, Account no: 30242010095314 , CANARA BANK, Mukramjahi Road, Hyderabad, IFSC Code: CNRB0013024 (fifth, sixth & ninth characters are 0 'zero'). The copy of the acknowledgment is to be submitted to TGREDCO.	
Performance Security Deposit (PSD)	At the time of allocation of projects, the bidder shall pay PSD @ 10% on the total project cost with quoted price. This PSD amount shall be paid Online/DD to M/s TGREDCO, Account no: 30242010095314 , CANARA BANK, Mukramjahi Road, Hyderabad, IFSC Code: CNRB0013024 (fifth, sixth & ninth characters are 0 'zero'). The copy of the acknowledgment is to be submitted to TGREDCO on total work value after issuing of LOI and the same will be released after 5 Yrs. from the date of installation and commissioning (i.e., completion of warranty) based on system performance and generation guarantee, certified by inspecting officer, after joint inspection of TGREDCO, beneficiary department and the supplier. (Or) By submitting the Bank Guarantee with validity period for 66 Months and a claim period of additional 06 Months on total work value after issuing of LOI the same will be returned after 5 Yrs. from the date of	

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	synchronization (i.e., completion of warranty) based on system performance and generation guarantee, certified by inspecting officer, after joint inspection of TGREDCO, beneficiary department and the supplier.
Minimum Technical Eligibility Criteria	Valid Registered Suppliers with TGREDCO with requisite experience of at least minimum more than 100 Nos. of Solar LED Street Lights in Govt. Departments/State Nodal Agencies/PSUs/Private OR Off Grid Solar PV systems of more than 10kWp cumulative capacities in any one (1) FY during the last 3 Financial Years (i.e. FY: 2023-24, 2024-25 & 2025-26)
Minimum Financial Eligibility Criteria	The firms having the Turnover not less than Rs.50 Lakhs , in any one financial year during the last 3 financial years duly certified by a Chartered Accountant (CA) with UDIN The Turnover Certificate should contain all 3 financial year turnover and UDIN.
Bid Documents Downloading Start date	23-09-2026 at 01.00 PM
Bid Document Downloading End Date	07-10-2026 at 03.30 PM
Last date for uploading of online documents	07-10-2026 at 04.00 PM
Concerned Officials Contact Details for Site visit to ascertain the site conditions	District Manager / Karimnagar / TGREDCO Contact: +91-6304903918
Pre-qualification & Technical Bid opening date/time	07-10-2026 at 04.15 PM
Price Bid opening date/time	09-10-2026 at 12:00 PM
Tender Bid Validity	120 days from the date of Opening of the Tender Bid.
Contact person	General Manager, TGREDCO

Important Note:

- i. Bidder shall submit bid proposal along with Bid Document fee and BID SECURITY DEPOSIT, complete in all respect as per the Bid Information Sheet. Technical bids will be opened in presence of authorized representatives of bidders who wish to be present.
- ii. TGREDCO have right to reject the bidding process at any stage or right to cancel the tender without mentioning any reason. In the event of any date indicated above is a declared Holiday, the next working day shall become operative for the respective purpose mentioned herein.
- iii. Bid documents which include Eligibility criteria, "Technical Specifications", various conditions of contract, formats, etc. can be downloaded from Telangana e-procurement website <https://tender.telangana.gov.in/>.
- iv. Any amendment(s)/corrigendum/clarifications with respect to this Bid will be uploaded on <https://tender.telangana.gov.in/> website and TGREDCO website <https://tgredco.telangana.gov.in> only. The Bidder should regularly follow up for any Amendment/Corrigendum/Clarification on the above website. No separate notifications will be issued for such notices / amendments / clarifications etc., in the print media or individually.
- v. Bids not accompanying the Bidding Document Cost and BID SECURITY DEPOSIT, or those accompanied by these instruments of inadequate value, shall not be entertained and in such cases, the bids shall not be opened. The Bidding Document Cost and Bid Security has to be necessarily paid online to M/s TGREDCO, **Account no: 30242010095314, CANARA BANK, Mukramjahi Road, Hyderabad, IFSC Code: CNRB0013024 (fifth, sixth & ninth characters are 0 'zero')**.
- vi. The BID SECURITY DEPOSIT of unsuccessful bidders shall be refunded after finalization of tender and issue of Work Order to the successful bidder.
- vii. The details of the instruments of Bidding Document Cost and the BID SECURITY DEPOSIT (Online Transaction ID) have to be entered online in relevant fields / columns of the module while submitting the e-bid. It must be ensured by the bidder that the original instruments towards Bidding Document Cost and BID SECURITY DEPOSIT are received by TGREDCO before opening time of the Technical bids for verification of the details of the same as given online by the bidder. Failure to comply with this would render the bid liable for rejection and the bid will not be opened online. If the acknowledgments of payments are uploaded in the portal at relevant fields, hard copies are not required to be submitted.
- viii. Any relaxation / exemption sought by bidders shall only be considered in accordance with relevant clauses Section-II (ITB) regarding submission/payment of BID SECURITY DEPOSIT and Bidding Document Cost and shall be subject to fulfillment of conditions defined in the said clauses. Since all the conditions explained in the said clauses for seeking exemption from submission of Bidding Document Cost and BID SECURITY DEPOSIT are self-explanatory, bidders should ascertain about their fulfillment of all conditions and submit their bid accordingly. If at any stage, it is found that false information is furnished or non-compliance of any of the conditions defined at the said clauses, the bid / offer shall be considered as non-responsive and would not be considered for further evaluation. Bidder seeking

exemption from submission of the Bidding Document Cost and the BID SECURITY DEPOSIT has to mandatorily submit / upload the scanned copy of their valid original registration certificate(s) as asked for in the relevant, clause along with other relevant documents as part of their online bid.

- ix. TGREDCO reserves the right to cancel / withdraw the tender without assigning any reason whatsoever and in such a case, no bidder / intending bidder shall have any claim arising out of such action.
- x. The subject procurement will be done through e-tendering. The Bid document is available on Telangana e-tender website <https://tender.telangana.gov.in/> (or) on TGREDCO website's Home Page <https://tgreddco.telangana.gov.in>. The Tender submission, Tender closing and opening will be done electronically and **online**.

3. TGREDCO Administrative Charges:

- 3.1 TGREDCO ADMINISTRATIVE CHARGES @ 5% plus 18% GST as applicable of the actual project completion cost shall be due and deducted at the time of release of first payment.
- 3.2 TGREDCO Administrative charges are charged towards site visits, inspection, liaison, monitoring etc.

4. Payment Terms:

Payment will be settled only on receipt of funds from the beneficiary Department. The payment procedure is as under:

- i. 70% of the Tax Invoice Value (as per the Work Order value) will be settled upon Supply, Installation, and Commissioning of Solar LED Street Lights and handing over of the systems to Concerned Beneficiary Department officials after joint inspection of TGREDCO, Beneficiary officials and supplier, duly deducting statutory deductions and TGREDCO admin charges @ 5% plus GST.
- ii. At the time of allocation of projects, the bidder shall pay PSD @ 10% on the total project cost with quoted price. This PSD amount shall be paid Online/DD to M/s TGREDCO, Account no: 30242010095314, CANARA BANK, Mukramjahi Road, Hyderabad, IFSC Code: CNRB0013024 (fifth, sixth & ninth characters are 0 'zero'). The copy of the acknowledgment is to be submitted to TGREDCO on total work value after issuing of LOI and the same will be released after 5 Yrs. from the date of installation and commissioning (i.e., completion of warranty) based on system performance, certified by inspecting officer, after joint inspection of TGREDCO, beneficiary department and the supplier.

(Or)

- iii. By submitting the Bank Guarantee with validity period for 66 Months and a claim period of additional 06 Months on total work value after issuing of LOI the same will be returned after 5 Yrs. from the date of installation and commissioning (i.e., completion of warranty) based on system performance and generation guarantee, certified by inspecting officer, after joint inspection of TGREDCO, beneficiary department and the supplier.
- iv. **Note:** The bidder shall conduct performance inspection of the respective plants for every year periodically for a period of 5 years and the same yearly performance certificate should be submitted to the TGREDCO Office duly certified by the respective Beneficiary Organization officials in regular intervals. If fails to submit the Half Yearly Performance Certificate in regular intervals, the proportionate PSD amount of the vendor will be

Forfeited without any further information.

- v. "In case the due date for filing the GST return for the period to which the invoice issued relates to is completed, then a proof for filing invoice in the GST Return and proof of payment of GST shall be submitted for release of payment. In other cases, an indemnity Bond cum undertaking in favour of TGREDCO for filing of GST Return and payment of GST to the Government (in the format provided by TGREDCO) should be submitted for release of payment.
- vi. 30% of the Tax Invoice Value (as per the Work order value) shall be paid after 90 days from the date of Installation and based on Satisfactory Performance Report after joint inspection of TGREDCO officials, supplier along with concerned beneficiary officials and basing on satisfactory report of inspecting officer.
- vii. The Contractor shall raise the Tax Invoice in compliance with provisions of Goods and Service Tax Act and rules made there under and in accordance with the rates quoted in Price Bid.
- viii. The Tax Invoice should be raised only after completion of installation, commissioning and handing over of the systems to Concerned Beneficiary Department officials after joint inspection of TGREDCO, Beneficiary Dept. officials. However, for the supply of material the proof of DC and E-Way bill may be attached to the Tax Invoice, in order to avoid other statutory obligations.
- ix. Income tax will be deducted by the TGREDCO from all payment made to the Contractor. This will be as per the Rules and Regulations in force and in accordance with the Income Tax Act prevailing from time during the contract period.

5. TGREDCO ADMINISTRATIVE CHARGES @ 5% plus GST as applicable on the actual project completion cost shall be deducted at the time of release of first payment.

The Payments will be released as soon as the funds are received from the Beneficiary Department/ Organization and on the certification of the work.

6. Commissioning:

1. The Commissioning of the Project shall be carried out by the successful bidder within **45 days** from date of issue of the Work Order.
2. **PART COMMISSIONING:** There shall be no Part Commissioning allowed for the Project. Except based on site conditions duly certified by beneficiary along with respective District Manager, TGREDCO.

7. PENALTY FOR DELAY IN PROJECT IMPLEMENTATION

For the delayed installation beyond the stipulated date, penalty @ 0.5% plus 18% GST on the cost of the system per week will be levied subject to the maximum of 5% plus 18% GST. For valid reasons, if the supplier is not able to supply the material within the time prescribed, the VC & Managing Director on receipt of representation from the supplier, may grant extension of time and also waive the penalty. If the work is not completed within one month beyond scheduled date of completion, the entire work order will be cancelled, PSD/EMD paid will be forfeited and supplier will be black-listed by the Corporation.

8. Important Notes and Instructions to Bidders:

1. Wherever information has been sought in specified formats, the Bidders shall fill in the details as per the prescribed formats and shall refrain from any deviations and referring to any other

document for providing any information required in the prescribed format.

2. The Bidders shall be shortlisted based on the declarations made by them in relevant schedules of tender. The documents submitted online will be verified before opening of the financial bid as per Clause, Section-II, Instructions to Bidders, ITB of tender.
3. If the Bidder conceals any material information or makes a wrong statement or misrepresents facts or makes a misleading statement in its response to tender, in any manner whatsoever, TGREDCO reserves the right to reject such response to tender and / or cancel the Work Order, if issued, and the Bank Guarantee provided up to that stage shall be encashed. Bidder shall be solely responsible for disqualification based on their declaration in the submission of response to tender bid. Response submitted by the Bidder shall become the property of the TGREDCO and TGREDCO shall have no obligation to return the same to the Bidder. However, the BID SECURITY DEPOSIT submitted by unsuccessful Bidders shall be returned as specified in Clause, Section-II, Instructions to Bidders (ITB) of bid.
4. All documents of the response to bid (including bid and subsequent Amendments/ Clarifications) submitted online must be digitally signed by the person authorized person.
5. The response to bid shall be submitted as mentioned in Clause, Section-II, Instructions to Bidders (ITB) of bid. No change or supplemental information to a response to bid will be accepted after the scheduled date and time of submission of response to bid. However, TGREDCO reserves the right to seek additional information from the Bidders, if found necessary, during the course of evaluation of the response to bid.
6. The bidder shall make sure that the correct, valid and operative Pass-Phrase to decrypt the relevant Bid-part is submitted into the 'Time Locked Electronic Key Box (EKB)' after the deadline of Bid submission, and before the commencement of the Online Tender Opening Event (TOE) of Technical bid.
7. All the information should be submitted in English language only. In case of foreign bidders having documents in other than English language, then the documents shall be translated in English language by certified translator and submitted.
8. Response to tender that is incomplete, which do not substantially meet the requirements prescribed in this tender, will be liable for rejection by TGREDCO.
9. Bidders delaying in submission of additional information or clarifications sought will be liable for rejection.
10. Non-submission and / or submission of incomplete data / information required under the provisions of bid shall not be construed as waiver on the part of TGREDCO of the obligation of the Bidder to furnish the said data / information unless the waiver is in writing.
11. Matters relating to any dispute or difference arising out of this tender and subsequent contract awarded based on this tender shall be subject to the jurisdiction of District Court of the Hyderabad only.

9. Non-Responsive Bid:

The electronic response to bid submitted by the bidder along with the documents submitted online to TGREDCO shall be scrutinized to establish "Responsiveness of the bid". Each bidder's response to bid shall be checked for compliance with the submission requirements set forth in this bid.

Any of the following conditions shall cause the Bid to be "**Non-responsive**",

- i. Non-submission of Cost of bid as mentioned in the Bid Information Sheet;

- ii. Non-submission of BID SECURITY DEPOSIT in acceptable form along with bid document.
- iii. Non-submission of correct, valid and operative Pass-Phrase to decrypt either the Technical Bid Part or Financial Bid Part online before due date and time of submission of bid;
- iv. Any indication of rate in any part of response to the bid, other than in the financial bid;

10. Documents to be Submitted Online:

Detailed instructions to be followed by the bidders for online submission of response to Tender bid. The bidders shall strictly follow the instructions mentioned in the electronic form in respective technical bid and financial bid while filling the form.

All documents of the response to Tender bid submitted online must be digitally signed on www.tender.telangana.gov.in

11. Validity of the Response to Tender Bid:

The Bidder shall submit the response to Tender bid which shall remain valid up to 4 (four) months from the date of opening of the Tender bid ("Bid Validity"). TGREDCO reserves the right to reject any response to Tender bid which does not meet the afore mentioned validity requirement.

12. Bid Preparation Cost:

The Bidder shall be responsible for all the costs associated with the preparation of the response to Tender bid. TGREDCO shall not be responsible in any way for such costs, regardless of the conduct or outcome of the bid process.

13. Bid Evaluation:

Bid evaluation will be carried out considering the information furnished by Bidders as per provisions specified in Section-II, Instructions to Bidders (ITB) of this tender.

14. Selection of Successful Bidder:

- The bidder shall be selected with lowest quoted rate (being L1) for this project. In case of a tie among two or more bidders (i.e. their quoted rate being the same at the end), they will be considered for further negotiations.
- At the end of selection process, a LOI/ Work Order will be issued to the successful Bidder for This Project.

15. Clarifications/ Enquiries/ Amendments:

- Clarifications/ Doubts, if any, on Tender bid document may be emailed to gm@tgredco.telangana.gov.in and/ or through www.tender.telangana.gov.in portal.
- A compiled list of such questionnaire and TGREDCO's response will be uploaded in the website TGREDCO or e-tender (www.tender.telangana.gov.in). If necessary, amendments, clarifications, elaborations shall be issued by TGREDCO which will be notified on TGREDCO / www.tender.telangana.gov.in website. No separate reply/ intimation will be given for the above, elsewhere.

- Enquiries/ Clarifications may be sought by the Bidder from

Sl. No	Designation	Contact Numbers	Email id
1	General Manager	040 – 23201502/03	gm@tgredco.telangana.gov.in

16. Right of TGREDCO to Reject a Bid:

TGREDCO reserves the right to reject any or all of the responses to Tender bid or cancel the Tender bid or annul the bidding process for any project at any stage without assigning any reasons whatsoever and without thereby any liability. In the event of the tender being cancelled at any stage, BID SECURITY DEPOSIT submitted by the Bidders shall be returned to the respective Bidders.

17. Post Award Compliances:

Timely completion of all the milestones i.e., Installation & Commissioning, etc. will be the sole responsibility of successful bidder. TGREDCO / Beneficiary Dept. shall not be liable for issuing any intimations / reminders to successful bidders for timely completion of milestones and / or submission of compliance documents.

Any checklist shared with successful bidder by TGREDCO for compliance of above-mentioned milestones to be considered for the purpose of facilitation only. Any additional documents required as per the conditions of Tender bid or work order must be timely submitted by the successful bidder.

18. Safety Measures:

The bidder shall take entire responsibility for electrical safety of the installation(s) including connectivity with the grid and follow all the safety rules & regulations applicable as per Electricity Act, 2003 and CEA guidelines etc.

19. Insurance and Labour Laws:

- a) Work Insurance is under the scope of Successful bidder.
- b) The Bidder shall be responsible and take an Insurance Policy for transit-cum-storage-cum-erection for all the materials to cover all risks and liabilities for supply of materials on site basis, storage of materials at site, erection, testing and commissioning.
- c) The Bidder shall also take insurance for Third Party Liability covering loss of human life, engineers and workmen and also covering the risks of damage to the third party/material/equipment/properties during execution of the Contract. Before commencement of the work, the Bidder will ensure that all its employees and representatives are covered by suitable insurance against any damage, loss, injury or death arising out of the execution of the work or in carrying out the Contract. Liquidation, Death, Bankruptcy etc., shall be the responsibility of bidder.
- d) The bidder shall adapt and follow the prevailing Labour laws.

SECTION III: TENDER SCHEDULE

1. PREAMBLE:

The scope of work for the bidder includes complete Supply, Installation & Commissioning of 123 No's of 24 Watt Single Arm and 20 No's of 24W X 4 Arm Solar LED Street Lights in Project Affected Villages of NTPC Ramagundam with 05 Years of Comprehensive Maintenance Contract (CMC) in Telangana State – through e-procurement platform (i.e., www.tender.telangana.gov.in).

The Successful Bidder(s) shall work closely with the State Government departments, Institutions, non-profit organizations institutions in implementing the above work and ensure success of the program.

The number of Solar LED Street Lights (units) in allocated locations may vary which will be intimated at the time of installation at the requisite site location.

2. Income Tax:

During the course of the contract period, deduction of income tax and surcharge at source shall be made at the prevailing rate issued by Income Tax Department from time to time on the gross amount of each bill.

3. Rates, Taxes and Duties:

All the rates in the tender shall be **inclusive of all statutory compliances** like PF, ESI, Service Tax, GST, etc. Any variation in such taxes / levies during the tenure of the offer / order shall be to the account of TGREDCO only. Bidders are advised to take in to consideration any such variations in the prevailing taxes/levies/duties.

4. Place of Work:

Intending tenderers shall visit the Site to acquaint with local site conditions, nature and requirement of work, present conditions before start of the work. The site locations are attached as a Annexure A of this tender document.

5. Force Majeure:

1. Notwithstanding the provisions of clauses contained in this BID document; the contractor shall not be liable to forfeit
 1. Security deposit for delay and
 2. Termination of contract; if he is unable to fulfill his obligation under this contract due to force majeure conditions.
2. For purpose of this clause, "Force Majeure" means an event beyond the control of the contractor and not involving the contractor's fault or negligence and not foreseeable, either in its sovereign or contractual capacity. Such events may include but are not restricted to Acts of God, wars or revolutions, fires, floods, epidemics, quarantine restrictions and fright embargoes etc. Whether a "Force majeure" situation exists or not, shall be decided by TGREDCO and its decision shall be final and binding on the contractor and all other concerned.

3. In the event that the contractor is not able to perform his obligations under this contract on account of force majeure, he will be relieved of his obligations during the force majeure period. In the event that such force majeure extends beyond six months, TGREDCO has the right to terminate the contract in which case, the security deposit shall be refunded to him.
4. If a force majeure situation arises, the contractor shall notify TGREDCO in writing promptly, not later than 14 days from the date such situation arises. The contractor shall notify TGREDCO not later than 3 days of cessation of force majeure conditions. After examining the cases, TGREDCO shall decide and grant suitable additional time for the completion of the work, if required.

6. Right of TGREDCO to REJECT a BID:

TGREDCO reserves the right to reject any or all of the responses to Tender bid or cancel the Tender bid or annul the bidding process for any project at any stage without assigning any reasons whatsoever and without thereby any liability. In the event of the tender being cancelled at any stage, BID SECURITY DEPOSIT submitted by the Bidders shall be returned to the respective Bidders.

7. Post Award Compliances:

Timely completion of all the milestones i.e., Commissioning, Synchronization etc. will be the sole responsibility of successful bidder. TGREDCO / Beneficiary Dept. shall not be liable for issuing any intimations / reminders to successful bidders for timely completion of milestones and / or submission of compliance documents.

Any checklist shared with successful bidder by TGREDCO for compliance of above-mentioned milestones to be considered for the purpose of facilitation only. Any additional documents required as per the conditions of Tender bid or work order must be timely submitted by the successful bidder.

8. Settlement of Disputes:

- It is incumbent upon the vendor to avoid litigation and disputes during the course of execution. However, if such disputes take place between the vendor and TGREDCO, effort shall be made first to settle the disputes at the company level.
- The vendor should make request in writing to the VC & MD, TGREDCO for settlement of such disputes/ claims within 30 (thirty) days of arising of the cause of dispute/ claim failing which no disputes/ claims of the vendor shall be entertained by the company.
- Effort shall be made to resolve the dispute in two stages.
- In first stage dispute shall be referred to HoD of the TGREDCO. If difference still persist the dispute shall be referred to TGREDCO board/ committee appointed by the TGREDCO board.

9. Legal Jurisdiction:

- Matters relating to any dispute or difference arising out of this tender and subsequent contract awarded based on this tender shall be subject to the jurisdiction of District Court of the Hyderabad only.

10. Non-Disclosure/ Confidentiality Clause:

The bidder will not at any time during pendency of contract or afterwards, disclose to any person any information as to documents, components, parts, information, drawings, data, sketches, plans, programs, specifications, techniques, processes, software, inventions and other materials, both written and oral, of a secret, confidential or proprietary nature, including without limitation any and all information relating to finance ,invention, research, design or development of information system and any supportive or incidental subsystems, and any and all subject matter claimed in or disclosed by any patent application prepared or filed by or on behalf of TGREDCO, in any jurisdiction, and any amendments or supplements thereto. The bidder should understand that any breach of this clause would constitute a serious offence for which appropriate legal action may be taken to ensure the enforcement of confidentiality clause. TGREDCO also desires that the bidder shall hold in trust and confidence, and not disclose to others or use for its own benefit or for the benefit of other, any Proprietary Information which is disclosed to the bidder by TGREDCO in NIT/ tender document at any time during the agreement / award of work / execution of work and thereafter.

The bidder shall disclose Proprietary Information received under the contract to person within its organization only if such persons (i) have a need to know and (ii) are bound in writing to protect the confidentiality of such Proprietary Information.

This clause shall survive and continue after any expiration or termination of the contract and shall bind the contractor, its employees, agents, representatives, successors, heirs and assigns.

11. Limitation of Liability

Except in cases of criminal negligence or willful misconduct, the Bidder shall not be liable to the TGREDCO, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the Bidder to pay liquidated damages to the TGREDCO and the aggregate liability of the bidder to the TGREDCO, whether under the Contract, in tort or otherwise, shall not exceed the total Contract Price, provided that this limitation shall not apply to any obligation of the Bidder to indemnify the TGREDCO with respect to patent infringement.

12. Corrupt or Fraudulent Practices:

The TGREDCO requires that bidders observe the highest standard of ethics during the procurement and execution of such contracts. TGREDCO: defines, for the purposes of this provision, the terms set forth below as follows:

- A. i) "corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution; and
- ii) "fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the TGREDCO, and includes collusive practice among bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and

to deprive the TGREDCO of the benefits of free and open competition;

- B. will reject a proposal for award if it determines that the bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;
- C. will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a contract if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing, a contract of the TGREDCO.

13. Termination for Default

13.1 The Employer may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the vendor, terminate the vendor in whole or part:

- If the vendor fails to deliver any or all of the Goods and complete the Work within the period(s) specified in the W.O. within any extension thereof granted by the Employer or
- If the Contractor supplied different product other than mentioned in LOA/W.O.
- If the Contractor fails to perform any other obligation(s)/duties under the Contract.
- If the Contractor, in the judgment of the Employer has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.

14. Bankruptcy

If the successful bidder shall become bankrupt or have a receiving order made against him or compound with his creditors, or being a corporation commence to be wound up, not being a voluntary winding up for the purpose only of amalgamation/ reconstruction, or carry on its business under a receiver for the benefit of its creditors or any of them, the Owner will be at liberty:

To terminate the contract forthwith by notice in writing to the liquidator or receiver or to any person in whom the contract may become vested & to act in the manner as though the last-mentioned notice has been the notice referred to in such clause and the equipment and materials have been taken out of the contractor's hands. To give such liquidator, receiver or other person, the option of carrying out the contract subject to his providing a guarantee, for the due and faithful performance of the contract up to an amount to be determined by the Owner.

SECTION – IV: TECHNICAL SPECIFICATIONS

Model	24Watt Single Arm Solar LED Street Light	24Watt X 4 Arm Solar LED Street Light
PV Module	150 Wp under STC	500 Wp (250 WX2 No's or 125WpX4 No's)
Type of Module	Crystalline Silicon Mono PERC Solar Modules, Indigenous, Complying with MNRE Specifications and IEC 61215/IS14286	Crystalline Silicon Mono PERC Solar Modules, Indigenous, Complying with MNRE Specifications and IEC 61215/IS14286
Battery	24W LED Luminaire with 60 AH, 12.8 V inbuilt Lithium Ferro Phosphate (LiFePO4) Battery	LED Luminaries – 24WX 4 No's LED Luminaire with 60 AH, 12.8 V inbuilt Lithium Ferro Phosphate (LiFePO4) Battery
Light Source & Output	24 Watt LED Luminaries, dispersed beam, soothing to eyes with the use of proper optics and diffuser with 2700 Lm efficacy Minimum 100 Lux output.	24 Watt X 4 Arm LED Luminaries, dispersed beam, soothing to eyes with the use of proper optics and diffuser with 2700 Lm efficacy Minimum 100 Lux output.
Description	GI Pole – 6 Mtr., GI Tubular Pole mounted, Minimum 4 meters above the ground level the Pole should withstand wind speed of 180 km/hr and support the installed solar modules. The pole shall be properly concreted with M-16 or M-20 grade. The mounting steel structure shall be as per latest BIS 2062 (amended up to date) and galvanization of mounting structure shall be in compliance of BIS 4759 (amended up to date).	GI Pole – 8 Mtr., GI Tubular Pole mounted, Minimum 6 meters above the ground level the Pole should withstand wind speed of 180 km/hr and support the installed solar modules. The pole shall be properly concreted with M-16 or M-20 grade. The mounting steel structure shall be as per latest BIS 2062 (amended up to date) and galvanization of mounting structure shall be in compliance of BIS 4759 (amended up to date).

Technical Specification for Solar LED Street Lighting Systems.**1. Solar PV Modules**

- 1.1. The PV modules used should be as per MNRE ALMM List (Amended time to time).
- 1.2. The PV modules used must qualify to the latest edition of IEC standards or equivalent BIS standards, i.e. IEC 61215/IS14286, IEC 61853-Part I/IS 16170- Part I, IEC 61730 Part-1 & Part 2 and IEC 62804 (PID). For the PV modules to be used in a highly corrosive atmosphere throughout their lifetime, they must qualify to IEC 61701/IS 61701.
- 1.3. The rated power of solar PV module shall have maximum tolerance up to +3%.
- 1.4. The peak-power point current of any supplied module string (series connected modules) shall not vary by +1% from the respective arithmetic means for all modules and/or for all module strings (connected to the same MPPT), as the case

- may be.
- 1.5. The peak-power point voltage of any supplied module string (series connected modules) shall not vary by + 2% from the respective arithmetic means for all modules and/or for all module strings (connected to the same MPPT), as the case may be.
 - 1.6. The temperature co-efficient power of the PV module shall be equal to or better than -0.45%/°C.
 - 1.7. The PV Module efficiency should be minimum 16%.
 - 1.8. Solar PV modules of minimum fill factor 75%, to be used.
 - 1.9. All electrical parameters at STC shall have to be provided.
 - 1.10. The PV modules shall be equipped with IP 65 or better protection level junction box with required numbers of bypass diodes of appropriate rating and appropriately sized output power cable of symmetric length with MC4 or equivalent solar connectors. The IP level for protection may be chosen based on following conditions:
 - i. An IP 65 rated enclosure is suitable for most outdoor enclosures that won't encounter extreme weather such as flooding.
 - ii. An IP 67 rated enclosure is suitable at locations which may encounter temporary submersion at depths of up to one meter.
 - iii. An IP 68 enclosure is recommended if there may exist situations of submergence for extended periods of time and at substantial depths.
 - 1.11. All PV modules should carry a performance warranty of >90% during the first 10 years, and >80% during the next 15 years. Further, module shall have performance warranty of >97% during the first year of installation—degradation of the module below 1 % per annum.
 - 1.12. The manufacturer should warrant the Solar Module(s) to be free from the defects and/or failures specified below for a period not less than five (05) years from the date of commissioning:
 - i. Defects and/or failures due to manufacturing.
 - ii. Defects and/or failures due to quality of materials.
 - iii. Non conformity to specifications due to faulty manufacturing and/or inspection processes. If the solar Module(s) fails to conform to this warranty, the manufacturer will repair or replace the solar module(s), at the Owners sole option.
 - 1.13. PV modules must be tested and approved by one of the NABL accredited and BIS approved test centers.
 - 1.14. Modules deployed must use a RF identification tag laminated inside the glass. The following information must be mentioned in the RFID used on each module:
 - i. Name of the manufacturer of the PV module
 - ii. Name of the manufacturer of Solar Cells.
 - iii. Month & year of the manufacture (separate for solar cells and modules)
 - iv. Country of origin (separately for solar cells and module)
 - v. I-V curve for the module Wattage, Im, Vm and FF for the module
 - vi. Unique Serial No and Model No of the module
 - vii. Date and year of obtaining IEC PV module qualification certificate.
 - viii. Name of the test lab issuing IEC certificate.
 - ix. Other relevant information on traceability of solar cells and module as per ISO 9001 and ISO 14001.
 - x. Nominal wattage +3%.
 - xi. Brand Name, if applicable.
 - 1.15. Other details as per IS/IEC 61730-1 clause 11 should be provided at appropriate place. In addition to the above, the following information should also be provided:

- i. The actual Power Output Pmax shall be mentioned on the label pasted on the back side of PV Module.
 - ii. The Maximum system voltage for which the module is suitable to be provided on the back sheet of the module.
 - iii. Polarity of terminals or leads (color coding is permissible) on junction Box housing near cable entry or cable and connector.
- 1.16. Unique Serial No, Model No, Name of Manufacturer, Manufacturing year, Make in India logo and module wattage details should be displayed inside the laminated glass.
- 1.17. ALMM:
- i. The Solar PV modules being used should be as per ALMM (Approved List of Module Manufacturers) List of MNRE / Govt. of India.
 - ii. As per the MNRE amendment OM Dated 28-03-2022 on ALMM, only the modules and manufacturers included in the list will be eligible for use in Government Projects / Government Assisted Projects / Projects under Government Schemes & Programmes / Open Access / Net-metering Projects installed in the country, including projects set up for sale of electricity to Government. The word "Government" shall include Central Government, State Governments, Central Public Sector Enterprises, State Public Sector Enterprises and Central and State Organizations / Autonomous Bodies w.e.f 01-10-2022. However, amendments if any received will be considered from time to time or the latest amendments.

2. Technical Specification for Solar LED Street Lighting Systems

2.1. White Led Based Solar Street Lighting System

A standalone solar photovoltaic street lighting system is an outdoor lighting unit used for illuminating a street or an open area. A solar street lighting system consists of a PV Module, control electronics, storage battery, W-LED based Luminaire, inter connecting cables and module mounting pole including hardware and battery box. The luminaire is based on White Light Emitting Diode (W-LED), a solid state device which emits light when electric current passes through it. The luminaire is mounted on the pole at a suitable angle to maximize illumination on the ground. The PV module is placed at the top of the pole facing South direction at an inclination of 10 degrees from horizontal. The system should be installed at a place where direct sunlight falls on the PV modules without any hindrance. There should not be any shadows falling on the PV modules during day time. The battery placed inside the battery box is charged by electricity generated by the PV module during day time and the luminaire provides light from dusk to dawn. The system lights at dusk and switches off at dawn automatically.

2.2. Solar Street Lighting System

A. SINGLE ARM 24Watt

- Solar Module: - 150Wp
- Battery: - 24W LED Luminaire with 60Ah, 12.8V inbuilt Lithium Ferro Phosphate, (LiFePO4) 750Wh (+20% permissible)
- LED Luminaire: - 24W (+% permissible)
- Pole: - GI pole coated with rubber paint, Height - 4m above ground level, Dia-4''

2.3. Broad Performance Parameters

LED	LED White Light Emitting Diode (W-LED) with minimum luminous efficacy of 150 lumen/watt
Luminaire	Minimum luminaire efficacy should be 100 lumen/watt
Colour Temperature	White color (color temperature 5000°-6500°K), the illumination should be uniform without dark bands or abrupt variations, and soothing to the eye. Higher light output will be preferred.
Lux level	Minimum 16 lux within a rectangle when measured at a distance of 6 m from the pole along the road (on either side of the road) and 4m from the pole across the road.
Electronics Efficiency	Min 85% total.
Duty cycle	Dusk to dawn.
Make of LED	NICHIA/ CREE/ OSRAM/ PHILIPS or equivalent
Charge Controller	MPPT

2.4. Duty Cycle

The W-LED solar street lighting system should be designed to operate from dusk to dawn, under average daily insolation of 5.5 kWh /Sq.mtr on a horizontal surface.

2.5. Luminaire

- The light source will be a white LED type. Single lamp or multiple lamps can be used. The colour temperature of white LED used in the system should be in the range of 5000°K–6500°K. Use of LEDs which emits ultraviolet light is not permitted.
- The light output from the white LED light source should be constant throughout the duty cycle.
- The lamps should be housed in an assembly suitable for outdoor use. The temperature of heat sink should not increase more than 20°C above ambient temperature during the dusk to dawn operation.
- The make, model number, country of origin and technical characteristics (including LM-80, LM-79 report) of white LEDs/LED Luminaire used in the lighting system must be furnished
- The enclosure of luminary should be with IP65 protection.

2.6. Battery

- Lithium Ferro Phosphate Battery. (LiFePO4)
- Battery should conform to the latest BIS/International standards (IEC 62133).

2.7. PV Module

- I. The PV module(s) should be indigenously manufactured and contain crystalline silicon cells. It required to have certificate for the supplied PV module as per IEC 61215, IEC 61730 and IEC 61701 specifications or equivalent BIS specifications.
- II. The power output of the PV module must be reported under standard test conditions (STC) at 16.4-volt load voltage. I-V curve of the sample module should be submitted.
- III. The open circuit voltage of the PV modules under STC should be at least 21.0 volt.
- IV. The PV module efficiency should be above 15 %.
- V. The terminal box on the module should have a provision for opening for replacing the cable, if required.
- VI. Each PV module should be provided with RF identification tag. The following information must be mentioned in the RFID used on each module (This can be inside or outside the laminate, but must be able to withstand harsh environmental conditions.)
 - a) Name of the Manufacturer or distinctive Logo
 - b) Model or Type No.
 - c) Serial No.
 - d) Year of make

2.8. Electronics, Including Protections

- I. The total electronic efficiency should be at least 85%.
 - II. Electronics should operate at 12V/24V/36V/48V and should have temperature compensation for proper charging of the battery throughout the year.
 - III. The light output should remain constant with variations in the battery voltages.
 - IV. The system should have protection against battery overcharge and deep discharge conditions.
 - V. Fuse should be provided to protect against short circuit conditions.
 - VI. A blocking diode should be provided as part of the electronics, to prevent reverse flow of current through the PV module(s). In case such a diode is not provided with the PV module, full protection against open circuit, accidental short circuit and reverse polarity should be provided.
 - VII. The charge controller should be in corporate with MPPT/PWM.
 - VIII. Adequate protection to be provided against battery reverse polarity
 - IX. Adequate protection is to be incorporated under No Load conditions.
 - X. Load reconnect should be provided at 80% of the battery capacity status.
- Necessary lengths of wires / cables and appropriate fuses should be provided.

2.9. Mechanical Components and Installation

Aluminum frame structure, with anodizing to be fixed on the pole to hold the SPV module. The frame structure should be inclined at an angle of 10 degrees from the horizontal to mount the PV module. The luminaire should be fixed to the pole on Aluminum arm. The Aluminum arm for holding the luminaire should have suitable length and should be set at a suitable angle to maximize lux of desired level over the specified area vented FRP/ABS/Aluminum box (IP65 protection) with suitable structure to be fixed on the pole for housing the storage battery with locking arrangement facility. All mechanical metallic

parts shall be of Aluminum/ stainless steel of suitable thickness to withstand loads including wind loads and should have good aesthetic appearance.

All external parts should be Aluminum/Stainless Steel and should be replaced during the warranty period in case of any defects. All nuts and bolts used should be of stainless steel.

The foundation of the pole should be of PCC of required size. The pole with foundation plate of suitable size should be fixed on the PCC foundation using foundation bolts. The pole should be of GI with coated with rubber paint. The foundation plate should be fixed 150 mm above ground level.

2.10. Indicators

The system should have two indicators, green and red.

- i. The green indicator should indicate the charging under progress and should glow only when the charging is taking place. It should stop glowing when the battery is fully charged.
- ii. Red indicator should indicate the battery “Load Cut Off” condition

2.11. Other Features

There will be a Name Plate (12” X 6”) on the pole (2 m above ground level), which should be displayed with the following details:

- a) Name of the supplier.
- b) Phone number of service centers.
- c) Date of installation.
- d) Name of Implementing agency.

Under CSR Initiative of NTPC –Ramagundam



Quality stickers with post number will have to be provided on the pole.

2.12. Quality and Warranty

- Components and parts used in White LED solar street lighting systems should conform to the latest BIS/ International specifications, wherever such specifications are available and applicable. A copy of the test report/ certificate stating conformity of BIS/ International standards must be submitted.
- White LED solar street lighting system including the battery will be warranted for a period of 5 years from the date of commissioning.
- The PV module used should be warranted for its output peak watt capacity, which should not be less than 90% at the end of 10 (ten) years and 80% at the end of 25 (twenty-five) years.

2.13. Documentation

An Operation, Instruction and Maintenance Manual, in English and Telugu, should be provided with the solar street lighting system. Besides other information the Manual

should contain the following minimum details:

1. About Photo Voltaic. A small write up (with a block diagram) on PV Module, electronics, lamps and battery.
2. About White LED solar street lighting system - its components and expected performance The make, model number, country of origin and technical characteristics of W-LEDs should be stated in the product data sheet
3. Clear instructions about mounting of pole, grouting details, fixing of PV module, battery and luminaire., clear wiring instructions with line diagram
4. About significance of indicators
5. DO's and DONT's
6. Clear instructions on regular maintenance and troubleshooting of the system
7. Name and address of the person or service center to be contacted in case of failure or complaint.

Indicative Diagram of Solar LED Street Lights





CHECK LIST

IMPORTANT:

Design, Supply, Installation & Commissioning of 123 No's of 24 Watt Single Arm and 20 No's of 24W X 4 Arm Solar LED Street Lights in Project Affected Villages of NTPC Ramagundam with 05 Years of Comprehensive Maintenance Contract (CMC) in Telangana State.

Sl.No	Particulars	Mandatory / Optional
1	Tender Document Fee of Rs.11,800/- Incl. of 18% GST to be paid online and the acknowledgment of the same is to be uploaded.	Mandatory
2	Bid security deposit on amount of Rs.1,50,000/-	Mandatory
3	At least commissioning of Solar LED street lighting systems of more than 100 Nos. in Govt. Departments/State Nodal Agencies/PSUs/Private OR Off Grid Solar PV systems of more than 10kWp cumulative capacities in any one (1) FY during the last 3 Financial Years (i.e. FY: 2023-24, 2024-25 and 2025-26). The details must be submitted in the Proforma given in Technical-Bid section of tender document along with proof of relevant documents (Work Orders/ POs/ Work Completion Reports/Agreements etc.,). However, VC & MD- TGREDCO has right to take any decision on eligibility criteria.	Mandatory
4	The firms having the Turnover not less than Rs.50 Lakhs , in any one financial year during the last 3 financial years duly certified by a Chartered Accountant (CA) The Turnover Certificate should contain all 3 financial year turnover and UDIN.	Mandatory
5	Valid TGREDCO vendor registration	Mandatory
6	A copy of PAN certificate	Mandatory
7	A copy of GST registration	Mandatory
8	Scanned copy of duly filled. Signed & Stamped of complete tender document to be uploaded in e-procurement website.	Mandatory

Note: All the above valid documents are to be uploaded in the relevant fields/ places in the e-procurement portal while participating in the Tender without fail. Please visit the site before participation in tender.

SECTION – V FINANCIAL BID GUIDELINES**(On the official Letterhead of the firm)**

Design, Supply, Installation & Commissioning of 123 No's of 24 Watt Single Arm and 20 No's of 24W X 4 Arm Solar LED Street Lights in Project Affected Villages of NTPC Ramagundam with 05 Years of Comprehensive Maintenance Contract (CMC) in Telangana State.

Solar LED Street Lights

Sl No.	Description	Qty in Units	Each unit cost (in Rs)	Total Amount in Rs.
		(a)	(b)	C = a X b
1	Design, Supply, Installation & Commissioning of 123 No's of 24 Watt Single Arm Solar LED Street Lights in Project Affected Villages of NTPC Ramagundam with 05 Years of Comprehensive Maintenance Contract (CMC) in Telangana State. (The price quoted shall be inclusive of all taxes).	123		
2	Design, Supply, Installation & Commissioning of 20 No's of 24 Watt X Four Arm Solar LED Street Lights in Project Affected Villages of NTPC Ramagundam with 05 Years of Comprehensive Maintenance Contract (CMC) in Telangana State. (The price quoted shall be inclusive of all taxes).	20		
			Grand Total	
(Amount in words)				

Certified that:

1. The bidder shall be quoted for 123 No's & 20 No's of Solar LED Street Lights only up to two decimal places, including 5years CMC period.
2. Above rates are in accordance with specifications & various terms & conditions mentioned in the tender document.
3. The rates are inclusive of all taxes and duties of Govt. of Telangana as well Govt. of India prevailing from time to time. Any escalation in such taxes / levies during the tenure of the offer / order will be considered.
4. In the event of any discrepancy between the values entered in figures and in words, shall be considered whichever is less.
5. In no circumstances, escalation in the prices will be entertained.
6. Rates quoted by Bidder will be for destination prices inclusive of taxes, levies, duties, packing, forwarding, freight, insurance, loading unloading, supply, installation, commissioning, connectivity charges etc. and any/ all charges for successful Supply and Installation of the systems at any locations in the State of Telangana.

Authorized Signature:

Name:

Designation:

Annexure - A

List of Detailed Location for installation of 143 No's of Solar LED Street Lights

S.No	Name of the Location/ Village
1	Badripalli
2	Jangoan
3	Ramagundam Village
4	Perapalli
5	Kamanpur
6	Julapally
7	Mathangi Colony
8	Maddiryala
9	Kannala – GD Nagar / Bamlanayak Tanda
10	PKR Colony
11	Veerlapalli
12	Akbarnagar