Tender Schedule for

Empanelment for Supply, Installation & Commissioning of Solar PV based Standalone LED Streetlights at various locations in Telangana State under JNNSM, MNRE, GoI.

Name of the firm: _________________________________________________

Tender Ref No: TSREDCO/SSL/RC/02/2017-18, DATED. 31/03/2018

CLOSING DATE: 13/04/2018 AT 3.00 PM
Rate Contract Tender for

Supply, Installation and Commissioning of Solar PV based Standalone LED Streetlights at various locations in Telangana State under

JNNSM, MNRE, GoI

Sealed tenders are invited on rate contract basis for empanelment for the Supply, installation and commissioning of Solar PV based Standalone LED Streetlights (including 5 years warrantee) at different locations in Telangana State from Solar PV streetlights manufacturers/suppliers. The interested manufacturers/suppliers are required to submit details of proposal for the above assignment as per formats provided at Part-IV, V & VI. Please write prominently on the envelope the subject i.e. Rate Contract Tender for Supply, Installation and Commissioning of Solar PV based Standalone LED Streetlights at different locations in Telangana State. Your proposal should reach the following address on or before 13th April, 2018 by 3.00PM

The VC & Managing Director,
Telangana State Renewable Energy Development Corporation Ltd (TSREDCO)
6-2-910, Vishvesharaya Bhavan,
Khairatabad, Hyderabad-500 004
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7.12. Service Centres
7.13. Warranty
7.14. Payment Terms
7.15. Validity of Empanelment

PART – III: GENERAL TECHNICAL SPECIFICATIONS

8. Technical Specifications

8.1. TSREDCO proposing following models of Solar PV based Standalone LED Street Lights under this rate contract tender:

8.1.1. The configuration of each model with Specifications is described below:

8.1.2. Other common Technicalities required for all the above models:

8.2. Item wise detailed description of Solar PV based Standalone LED Streetlights:

8.2.1. Solar Photovoltaic Modules:

8.2.2. Battery:

8.2.3. Light Source:

8.2.4. Electronics:

8.2.5. Electronic protections:

8.2.6. Mechanical Components:

8.2.7. Indicators:

8.2.8. Quality and Warranty:

8.2.9. Operation and Maintenance manual:

PART – IV: TECHNICAL BID

1. Technical bid format (Envelope-I):

2. Details of Experience:

3. Details about the blacklisting, if any:

4. Details about the Components to be used:

5. Technical Details of Components:

PART – V: FINANCIAL BID

1. Financial Bid terms and Conditions:

FINANCIAL BID (ENVELOPE – II):

PART – VI: ANNEXURES
PART – I: GENERAL DETAILS
FROM :- (Full name and address of the tender)

M/s……………………………………………………………
…………………………………………………………
…………………………………………………………
…………………………………………………………

To,

The VC & Managing Director,
TSREDCO,Khairatabad,
Hyderabad.

Subject: - Offer in response to Tender Ref No. TSREDCO/SSL/RC/02/2017-18/ dated: 31.03.2018

Sir,

We hereby submit our offer in full compliance with terms & conditions of the attached tender. The tender is being submitted in two separate and sealed envelopes marked Envelope-I (Technical Bid) & Envelope-II (Financial Bid).

(Signature of Tenderer)

Seal
## Bid Information Sheet

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Particulars</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Name of the Company</td>
<td>Telangana State Renewable Energy Development Corporation Ltd (TSREDCO)</td>
</tr>
<tr>
<td>2.</td>
<td>Tender Ref No</td>
<td>TSREDCO/SSL/RC/02/2017-18/ dated: 31/03/ 2018</td>
</tr>
<tr>
<td>3.</td>
<td>Name of the work</td>
<td>Supply, Installation and Commissioning Solar PV based Standalone LED street lighting systems at various locations in Telangana State.</td>
</tr>
<tr>
<td>5.</td>
<td>Tender Type</td>
<td>Open</td>
</tr>
<tr>
<td>7.</td>
<td>Cost of tender document</td>
<td>Rs.25,000 + GST @ 18% by way of DD, drawn in favour of TSREDCO, Payable at Hyderabad.</td>
</tr>
<tr>
<td>8.</td>
<td>Last date &amp; time of submission</td>
<td>___13/04/2018 by 3.00 PM</td>
</tr>
<tr>
<td>9.</td>
<td>Bid Security Deposit (EMD)</td>
<td>Bid Security for Rs 2.00 Lakhs by way of Demand Draft only in favour of TSREDCO, payable at Hyderabad shall be submitted along with Technical Bid. Firms claiming Exemptions for Bid Security shall submit letter from NSIC/ SSI for this tender only mentioning the tender ref. no.</td>
</tr>
<tr>
<td>10.</td>
<td>Validity of offer for acceptance</td>
<td>90 days from the date of opening of Financial bid.</td>
</tr>
<tr>
<td>11.</td>
<td>Technical Bid Opening Date and Time</td>
<td>13/04/2018 at 3.30 PM at registered office of TSREDCO, Hyderabad</td>
</tr>
<tr>
<td>12.</td>
<td>Financial Bid Opening Date and Time</td>
<td>Will be intimated later those who have qualified in Technical bid.</td>
</tr>
<tr>
<td>13.</td>
<td>Security Deposit</td>
<td>Rs.1,00,000 by way of Demand Draft drawn in favour of TSREDCO , payable at Hyderabad. (D.D Only)</td>
</tr>
<tr>
<td>14.</td>
<td>Place of Opening of Tender</td>
<td>O/o VC &amp; Managing Director, TSREDCO, Hyderabad.</td>
</tr>
<tr>
<td>15.</td>
<td>Address</td>
<td>6-2-910, II floor, Vishvesharaya Bhavan, Khairatabad, Hyderabad - 500 004</td>
</tr>
</tbody>
</table>

### NOTE: IMPORTANT INSTRUCTIONS:

Prospective Bidders are requested to remain updated for any notices/ amendments/ clarifications etc. to the tender document through the website.

No separate notifications will be issued for such notices/amendments/clarification etc. in the print media or individually. All the information related to this tender shall be updated on the TSREDCO Website (www.tnredcl.telangana.gov.in) only. The Bid Security /EMD amount paid by the successful Tenderer will be converted as Security deposit and will be released after completion of the works allotted or tender validity date whichever is later as decided by

[2] The period of contract is subject to the scheme availability with MNRE.

Telangana State Renewable Energy Development Corporation Limited

Authorized Signature of Bidder with Seal
VC & MD TSREDCO. The un-successful bidders EMD/ Bid Security will be returned after selection of the successful bidders.

The “Bid” received before the due date and time will be opened to assess whether the Bidder qualifies, whether his offer is technically acceptable and substantially responsive. TSREDCO will examine the Bids to determine whether they are complete, whether required sureties have been furnished, whether the documents have been properly signed, and whether the Bids are generally in order as mentioned in the tender document. The bids of only such Bidders whose bids are technically and commercially in accordance with the specification and who have submitted the necessary Bid Security in the form required will be considered for opening of financial bid.

A responsive Bid is the one which accepts and fulfils all the terms and conditions of this specification and documents, supported by the necessary sureties, and are complete in respect of details as mentioned in the Bid document.

The responsive Bids received will be evaluated by TSREDCO to ascertain the lowest evaluated Bid for complete works covered under these specifications and documents.

The Tender document can be downloaded from www.tsredco.telangana.gov.in. (Telangana) and the cost of tender document and Bid Security/EMD as mentioned in bid information sheet shall be enclosed along with the technical bid in envelope I.

All relevant required documents along with evidences are to be enclosed and properly tagged along with technical bid in Envelope I, and only quoted rates (as per Format enclosed) is to be enclosed in the financial bid in Envelope II.

Financial bid will be opened of those bidders who would duly qualify in the technical bid.

Bidder shall quote for Different Capacities of Solar PV based Standalone LED Streetlights with breakup of materiel mentioned in the Tender Document.

Industries exempted from payment of Bid Security/EMD shall enclose duly attested Photostat copy of their Registration Certificate showing the materials they are permitted to manufacture/to do rendering services and the period of validity of the certificate as proof of eligibility. However the letter/certificate from NSIC/ SSI shall include this tender ref. no. for exemption from payment of Bid Security/EMD.

The cost of the Tender document is NOT exempted and has to be paid by way of DD in favour of TSREDCO payable at Hyderabad as mentioned in the Bid Information sheet. The tender without tender document fee shall be rejected.

TSREDCO has right to cancel the complete or part of tender without mentioning any reasons.
PART – II: INSTRUCTIONS TO TENDERERS
1. Introduction

1.1. Eligible Tenderers

The Tenderer shall provide sufficient documentary evidences to satisfy the following conditions:

The Tender shall

a) Fulfill the terms and conditions of eligibility as an indigenous manufacturer of Solar PV Systems in accordance with the guidelines of Ministry of New and Renewable Energy, Government of India or proof of experience as contractor/System integrator in the field of Solar PV installations.

b) Has adequate plant and manufacturing capacity available, to perform the works properly and expeditiously within the time frame specified by TSREDCO.

c) Has established quality assurance systems and organization designed to achieve high level of equipment reliability in manufacturing of the Solar Systems.

d) Has adequate financial stability and status to meet the financial obligations Pursuant to the scope of work. **The firm must have average annual turnover of minimum 100 Lakhs during the last three years. Relevant documents certified by a chartered Accountant shall be enclosed.**

e) Has experience of manufacturing, supply and maintenance /after sale sale services in the field of installation and commissioning of Solar PV based Standalone **LED street lighting systems of more than 1000 Nos. in Govt. Departments/State Nodal Agencies/PSUs OR Off Grid Solar PV systems of more than 100 kW cumulative capacities in the last three years period.** The details must be submitted in the proforma given in Technical- Bid section of tender document along with proof of relevant documents. However VC & MD- TSREDCO has right to take any decision on eligibility criteria.

f) Has adequate field service setup to provide good after sale services including necessary repair and maintenance in the state of Telangana.

g) Has provided good after sale services for the works done by him during past years.

h) Has Valid Test Certificates of the Solar PV based Standalone LED Street Light components as specified and required in the Technical- Bid of this tender document and **the shall be enclosed along with technical bid.**
i) Fulfill all requirements as per provisions under JNNSM, MNRE, GoI.

j) Shall be required to have adequate post installation localized service facilities/centers. The details of local office address along with persons working with phone numbers shall be enclosed along with technical bid.

In case of suppliers/system integrators, an authorisation certificate from OEM (Original Equipment Manufacturer)/authorised letter from distributor of respective manufacturer shall be provided for all the equipment supplied.

The above stated requirements are compulsory to be fulfilled by the tenderer and TSREDCO may also ask for any additional information as may be deemed necessary in public interest.

2. The Tender Document

2.1. Content of Tender Document

2.1.1 The tender procedure and contract terms are prescribed in the tender document. In addition to the invitation of tender, the tender document includes the various other documents as given in the table of general particulars of tenderer which is provided in subsequent section.

2.1.2 The tenderer is expected to examine all instructions, terms and conditions, specifications, forms and formats etc as mentioned/enclosed in the tender document. Failure to furnish all information required in the tender document or submission of a tender not substantially responsive to the tender document in every respect will be at the tenderer’s risk and is likely to result in out-right rejection of the tender.

2.2. Information required with the Proposal

2.2.1 The tender must clearly indicate the name of the manufacturer, the types and model & make of each principal item of equipment proposed to be supplied. The tender may also contain details of specifications and other comprehensive descriptive materials in support of technical specifications.

2.2.2 The above information may be provided by the Tenderer in the form of separate sheets, specifications, catalogues etc.

2.2.3 Any tender not containing sufficient descriptive material to describe the proposed equipment may be treated as incomplete and hence may be rejected. Such descriptive materials and specifications submitted by the Tenderer will be retained by TSREDCO. Any deviations from these will not be permitted during the execution of contract, without specific written permission of TSREDCO.
2.3. Clarification of Tender document

2.3.1 Any prospective tenderer requiring any clarification on the tender document regarding various provisions/requirements/ preparation/ submission of the tender, may contact TSREDCO in writing by letter or fax/ email before 48 hours of closing time of the tender. Queries received later shall not be entertained.

2.3.2 Verbal clarifications and information shall not be entertained in any way.

2.4. Amendments in Tender document

2.4.1 At any time prior to the due date for submission of the tender or even prior to the opening of the financial bid, TSREDCO may for any reason, whether at its own initiative or as a result of a request for clarification/suggestion by a prospective tenderer, amend the tender document by issuing a notice.

2.4.2 The amendments will be notified on the website at least 2 days before the proposed date of submission of the tender. TSREDCO will bear no responsibility or liability arising out of non-receipt of the information in time or otherwise. If any amendment is required to be notified within 2 days of the proposed date of submission of the tender, the last date of submission shall be extended for a suitable period of time.

2.4.3 In case amendments is notified after submission of the tender (prior to the opening of financial bids), all the tenders received by TSREDCO shall be returned in sealed condition to the concerned tenderers through registered post or courier or handed over for getting their offer revised according to the amended terms and conditions.

All the notices related to this tender which are required to be publicized shall be uploaded only on [http://www.tsredco.telangana.gov.in](http://www.tsredco.telangana.gov.in)

3. Preparation of Tender

3.1. Language of Tender and Measure

The tender prepared by the tenderer along with all the related documents shall be in English. Unit measurements shall be metric in accordance with SI System. All correspondence between the tenderer and TSREDCO shall also be in English.

3.2. Bid Security / EMD

3.2.1 The tenderer shall furnish Bid Security/EMD of Rs.2,00,000/- as mentioned in the Bid Information Sheet in the shape of DD in favour of TSREDCO, payable at Hyderabad. Tenders without Bid Security/EMD shall be rejected by TSREDCO as being non-responsive. No interest shall be paid by TSREDCO on the amount of
Bid Security/EMD deposition as well as deposition of Security Deposit.

3.2.2 The Bid Security/EMD may be forfeited:-

a) If a Tenderer withdraws his tender during the specified period of validity of offer.

b) If the successful Tenderer fails to sign the contract agreement within stipulated period.

3.2.3 The BID Security/EMD of the successful Tenderer shall be released at the time of signing of the agreement with TSREDCO. At this time, the selected bidder shall have to security deposit amounting to Rs.1 Lakhs in the form of DD from any nationalized/scheduled bank in favour of “TSREDCO, Hyderabad”. No interest shall be paid by TSREDCO on the amount of security deposit.

3.2.4 The authority reserves the right of awarding the work. The Bid Security/EMD of such selected Tenderer shall also be released after signing the agreement and submission of security deposit by them. After receiving the consent to work, the Bid Security/EMD of such Tenderer shall be forfeited if they fail to sign the contract agreement within stipulated period.

3.2.5 The Bid Security/EMD of all unsuccessful bidders shall be released soon after selection of selected bidder(s) against submission of their written intimation regarding acceptance of work and deposition of security deposit amount.

3.3. Period of Validity of Tender

3.3.1 Validity\(^3\) of the Tender should be up to 31.03.2019 from the proposed date of opening of the Technical bid.

3.3.2 In exceptional circumstances, TSREDCO may solicit the consent of the tenderers to an extension of the period of validity of offer. The request and the response there of shall be made in writing.

3.4. Formats and Signing of Tender

3.4.1 The tender must contain the name and places of business of the firm/ person/persons participating in the tender and must be signed and sealed by the Tenderer with his usual signature. The name and designation of all persons signing the tender document should be written below every signature. Tender by a partnership firm must be furnished with full name of all partners with a copy of partnership deed.

3.4.2 The original copy of the tender should be typed or written in indelible ink and must be signed with the legal name of the corporation/ company by the President/ Managing Director/ Secretary of the firm or a person duly authorized to bid. In case of

\(^3\) The period of contract is in subject to the scheme availability with MNRE
authorized person the latest letter of authorization, not less than 2 months from the
date of tender, by written power-of-attorney should be enclosed with the technical bid
of the tender. The person or persons signing the tender shall initial all pages of the
tender document.

3.4.3 The tender shall contain no interlink actions, erasers or overwriting except as
necessary to correct the errors made by the tenderer in the preparation of
tender. The person or persons signing the tender shall also sign at all such corrections.

3.5. Price and Currencies

The tenderer shall have to submit their rates in Indian Rupees only including all latest
applicable taxes & duties of Govt. of Telangana as well as Govt. of India. Moreover,
TSREDCO will not be responsible for providing Road permits. It is to be obtained by the
selected bidder only and necessary Entry Tax (as admissible) will have to be borne by the
selected bidder if any. The rate should be quoted on the prescribed format for Financial Bid
(Part-II) attached to this tender document.

4. Submission of Tender

4.1. Sealing and Marking of Tender

4.1.1 The tender must be complete in all technical and commercial respect and should
contain requisite certificates, drawings, informative literature etc. as required in
the tender document.

4.1.2 In Technical bid (sealed envelope) (Envelope-I), following documents are to be
inserted:
1. Copy of filled and Signed Application of EOI
2. Copy of Registration
3. Tender document fee Rs.25,000 + GST @ 18% by way of DD in favour of
TSREDCO payable at Hyderabad
4. Bid Security/ EMD for Rs.2,00,000 / - by way of DD in favour of TSREDCO
payable at Hyderabad
5. Copy of GST, PAN
6. System Test certificates
7. Proof of Company’s local office including contact telephone no. of local people.
8. Brochures, literature and other documents regarding technical specifications.

It should be superscripted with “Technical Bid - Tender for Empanelment for
Supply, Installation, and Commissioning of Solar PV based Standalone LED
streetlights at different locations in Telangana”.

4.1.3 The complete tender document in original (excluding financial bid) issued by
TSREDCO or downloaded from the website should be submitted by the tenderer in
the first envelope (Envelope - I) after furnishing all the required information on
relevant pages. Each page of the tender document should be signed & stamped. Tenders with any type of change or modification in any of the terms & conditions of this document shall be rejected. If necessary, additional papers may be attached by the tenderer to furnish/submit the required information.

4.1.4 Second sealed envelope (Envelope-II) should contain financial bid only. It should be superscribed with “Financial Bid - Tender for Empanelment for Supply, Installation, and Commissioning of Solar PV based Standalone LED streetlights at different locations in Telangana”. The tenderer should submit his duly signed and stamped financial bid in the financial bid format attached with this tender document.

4.1.5 Any terms & conditions proposed by the tenderer in his technical bid which is not in accordance with the terms and conditions of the tender document or any financial conditions, payment terms, rebates etc. mentioned in financial bid shall be considered as a conditional tender and will make the tender invalid.

4.1.6 Both the above sealed envelopes i.e. closely marked as Envelope-I (Technical Bid) and Envelope-II (Financial Bid) will be sealed in another one envelope, subscribed with TENDER Ref: TS REDCO/SSL/RC/02/2017-18, dated 31/03/2018 and Name of Work: “Tender for Empanelment for Supply, Installation, and Commissioning of Solar PV based Standalone LED streetlights at different locations in Telangana”. This envelope shall be addressed to

The VC & Managing Director,
TSREDCO, 6-2-910,
II floor, Vishveshwaraya Bhavan,
Khairatabad, Hyderabad - 500 004

4.2. Last date for Submission of Tender

4.2.1 Tender must be received by TSREDCO on or before time and date mentioned in the tender document.

4.2.2 Any tender received after the specified date & time of submission will be rejected and returned unopened to the Tenderer.

5. Tender opening and Evaluation

5.1. Opening of Tender

The procedure of opening of the tender shall be as under:

5.1.1 First envelope (Envelope-I) superscribed “Technical Bid - Tender for Empanelment for Supply, Installation, and Commissioning of Solar PV based Standalone LED streetlights at different locations in Telangana” shall be opened by TSREDCO representatives at the time and date mentioned in the Particulars of Tender, in the presence of tenders who choose to be present. The financial and
technical suitability of offers will be examined by TSREDCO in detail. If required, clarifications regarding the suitability of the offers will be obtained.

5.1.2 Second envelope (Envelope-II) superscribed “Financial Bid - Tender for Empanelment for Supply, Installation, and Commissioning of Solar PV based Standalone LED streetlights at different locations in Telangana” of only those tenderers shall be opened whose technical bid is found responsive, suitable and in accordance with the various requirements of the tender.

5.1.3 In case it is not possible to open second envelope (Envelope -II) comprising the “Financial Bid” on the specified date, then a suitable date for this purpose shall be announced or shall be communicated to tenderers by letter/ fax/ email (Either Mode). To avoid postponement of opening of financial bid, it is in the interest of the tenderers to send their authorized representatives who are well conversant with the tender and competent enough to take decisions on technical and financial matters at the time of opening of bids.

5.2. Clarifications regarding the Submitted Tenders

5.2.1 During the process of evaluation of the tender, TSREDCO may at its discretion ask the tenderer for a clarification of their tender. The request for clarification and the response shall be in writing.

5.2.2 Any query regarding any clarification required by TSREDCO on the information submitted by the tenderer, must be replied by the tenderer within the following time schedule.

- Email/ fax query should be replied by Email/ fax within 2 days.
- Query by letter must be replied by letter within 7 days of receipt of the letter.

5.3. Financial bid Evaluation

i. The Financial evaluation will include all Duties and Taxes.

ii. In cases of discrepancy between the cost quoted in words and in figures, the lower of the two will be considered.

iii. In case of discrepancy between the actual total of price break up and the total mentioned in the bid, the lower of the two will be considered.

iv. **SPECIAL ATTENTION:**
While preparing the Financial Bid the Bidders shall also take into account the following:

- Infrastructure & Construction Facilities, Preliminary, Enabling & Ancillary works whatsoever required by them for successful completion of the Project in the specified time schedule.
- Indian Income Tax and Surcharge on Income Tax on Salaries of Expatriates etc.
- Corporate Income Tax.
- All Taxes, GST, Duties and expenses such as Excise Duty, Customs Duty and Custom Clearance on imported items, transportation and storage at site etc.

5.3.1 TSREDCO reserves the right to negotiate with the bidders for further reduction of prices.

5.3.2 Under no circumstances shall a tenderer increase his price during the validity period after tenders are opened. Any tenderer who does so shall not only lose his Bid Security/EMD but also run the risk of being blacklisted by TSREDCO. TSREDCO also reserves the right under the law to recover damages resulting there from, in addition to forfeiture of Bid Security/EMD.

6. Finalization of Tenders

6.1 Tenders will be finalized by the TSREDCO Tender evaluation committee, for the works along with technical bid evaluation for consideration and in accordance with the conditions stipulated in the tender document and in case of any discrepancy or non-adherence to the conditions, the same shall be communicated which will be binding both on the tender concluding authority and tenderer. In case of any ambiguity the decision taken by the VC & Managing Director, TSREDCO on tenders shall be final.

6.2 The tenders if received with abnormally high percentage or within the permissible ceiling limits (bench mark cost) prescribed, but under collusion due to unethical practices adopted during the tendering process shall be rejected.

6.3 TSREDCO has reserves right to cancel the tender at any time without mentioning any reasons.

7. Terms of Contract

7.1. Evaluation criterion

The whole work shall be on **Turnkey basis**. The empanelment of tenderer shall be finalized on the basis of total cost of Solar PV based Standalone LED streetlights including supply, installation, commissioning with 5 years warrantee as offered by the tenderer in his Financial Bid.

7.2. Notification of Empanelment

Prior to the expiry of validity period of offer, TSREDCO will notify the successful tenderer through registered post/Email/ Fax that he is empanelled as one of the tenderers accepted to install the Solar PV based Standalone LED streetlights.

7.3. Banning of business deal:

The successful bidder will be banned from business with TSREDCO if any of the
particulars produced by the bidder such as Auditor Certificate, Annual account, GST Certificate, Test certificates, etc. are found to be incorrect, or if there is breach of any of the conditions in the contract

7.4. Award of Work Contract

Before empanelment as approved tenderer, an agreement shall be signed between TSREDCO and the tenderer. The denial of the lowest bidder to undertake the whole work shall be treated as breach of contract and TSREDCO may forfeit Bid Security/EMD submitted by him.

7.5. Right to accept/reject any or all tenders.

TSREDCO reserves all the right to reject any or all the tenders, accept any tender in total or in part.

7.6. Expenses of Agreement

The respective suppliers shall pay all the expenses of stamp duties and other requirements for signing the agreement with TSREDCO.

7.7. Execution of Agreement of Empanelment

a. The Successful Bidder shall execute an agreement of empanelment in the Rs.400 worth non-judicial stamp paper of Telangana Jurisdiction only in the name of the Tenderer, within 15 days from the date of Letter of Intimation about qualification by TSREDCO.

b. The Successful Bidder shall not assign or make over the empanelment, the benefit or burden thereof to any other person or persons or body corporate for the execution of the contract or any part thereof without the prior written consent of TSREDCO. TSREDCO reserves its right to cancel the empanelment either in part or full, if this condition is violated.

c. In case of the successful bidder fails to execute necessary agreements as prescribed, within the stipulated period, then his Bid Security/EMD shall be forfeited and his tender held as non-responsive.

7.8. Issue of Letter of Empanelment

After execution of the Agreement and payment of Security Deposit, the name of successful bidder(s) with price will be displayed in website of TSREDCO and a letter of empanelment will be sent to the qualified tenderer.

7.9. Installation & Completion Schedule

The entire work involving Supply, Installation and Commissioning of Solar PV based standalone LED Streetlights shall be completed as per the timeline mentioned in the respective work order.
7.10. **Scope of Work**

a. Scope of work covers Design, Supply, Installation & Commissioning of Solar PV based standalone LED Streetlights as per the technical specifications. All works required for proper installation of Solar PV based standalone LED Streetlights including necessary civil and welding works shall be done by the successful bidder. The entire work shall be performed on turnkey basis. All the works related to the proper installation and functioning of the system shall have to be carried out by the contractor in the prices offered by him.

b. The complete Solar PV based standalone LED Streetlights including outdoor fittings shall be warranted by the successful bidder against any manufacturing/ design/ installation defects for a minimum period of 5 years from the date of installation.

c. Solar PV modules used in Streetlights shall be warranted by the contractor for their output peak watt capacity, which should not be less than 90% at the end of 15 years and 80% at the end of 25 years.

d. The successful bidder will make all necessary arrangements for satisfactory operation, maintenance and performance of the streetlighting system during 5 years warranty period.

e. Rectification of all the defects developed in the Solar PV based standalone LED Streetlights during warranty period shall have to be done by the successful bidder promptly, at the most within 7 days from the date of receipt of compliant.

f. Warranty will include rectification/replacement of all the defective and consumable components/items including batteries. During Warranty period, all the arrangements for keeping the Solar PV based standalone LED Streetlights functional shall be the sole responsibility of the successful bidder only.

g. After completion of the proposed works, clearances of all temporary works/materials shall be the sole responsibility of the successful bidder and this shall be removed immediately after the requirement of such temporary work is completed.

h. Supply and Installation of **Permanent Display board showing on battery box all technical information of Solar PV based standalone LED Streetlights shall be done by successful bidder.** The matter written on these boards shall be finalized in consultation with TSREDCO.

i. All the non-functional parts/materials/items replaced during the warranty period shall be the property of the successful bidder.

j. The successful bidder will conduct on-site training of the purchaser’s/user’s personnel regarding the operation and maintenance of the Solar PV based standalone LED Streetlights.

k. During Warranty period, the successful bidder shall have to submit annual performance report from user agency regarding functionality of the system.

l. A leaflet containing the details of the service centers shall be provided to each purchaser as well as to TSREDCO.

m. If the operation or use of the system proves to be unsatisfactory during the warranty period, the installer shall replace the faulty ones or carry out necessary repairs as per the warranty terms and conditions.
7.11. **Inspection by TSREDCO**

All the Solar PV based standalone LED Streetlights installed will be inspected by the representative of TSREDCO within 30 days of receipt of Installation & Commissioning Certificate. During the Inspection, if the system installed is found faulty (or) not in compliance to the technical specification, the cost for re-inspection by TSREDCO after rectification/replacement shall be borne by the successful bidder.

7.12. **Service Centres**

Emp panelled bidder shall have minimum of one service centre in Telangana. Additional service centers shall be opened in Telangana indifferent districts as follows. All service centers shall be operational till the expiry of 5 year warranty.

- < 100 Installations - 1 Centre
- 100 – 300 Installations – 2 Centres
- 300 - 500 Installations - 3 Centres.
- 500- 750 Installations - 4 Centres.
- 750 – 1000 Installations – 5 Centres.

The empanelled bidder shall visit the site at least once in a quarter, to attend routine maintenance, during the 5 years warranty period. However, in case of non-functioning of the system, the empanelled bidder shall attend for rectification of defects within 3 days from the date of lodging complaint.

7.13. **Warranty**

1. Solar PV shall  
   (a) Carry a warranty of minimum 25 years.  
   (b) Must be warranted for their output peak watt capacity which shall not be less than 90% at the end of 15 years and 80% at the end of 25 years  
2. The batteries and solar charge controllers shall carry a warranty of minimum 5 years.  
3. The complete Solar PV based standalone LED Streetlights installed and commissioned shall be under a warranty against any manufacturing or usage defect for a minimum period of 5 years from the date of Commissioning. The mechanical items, electrical/electronic items including Charge controller/batteries/LED luminary etc. and overall workmanship of the Solar PV based standalone LED Streetlights must be warranted against any manufacturing/ design/ installation defects for a minimum period of 5 years.  
4. The warranty will be against breakages, malfunctions, non-fulfillment of guaranteed performance and breakdowns due to manufacturing defects or defects that may arise due to improper operation of electrical /electronic components of the system but do not include physical damages by the end users.  
5. The above warranty shall take effect from the date on which the system is taken over by the purchaser after commissioning.
6. The successful bidder shall be liable to make good the loss by replacing the defective product during the warranty period for the entire system with free of cost.

7. The warranty will cover all the materials and goods involved in the installation and commissioning of Solar PV based standalone LED Streetlights by the successful Bidder.

8. During the 5 years warranty and comprehensive AMC period, TSREDCO/MNRE will have all the rights to cross check the performance of LED based solar streetlights. TSREDCO may carry out the frequent inspections of the installed SSL and randomly pickup to get them tested at Government / MNRE approved any test centre. If during such test of the SSL or its any component is not found as per specified technical parameters, TSREDCO will take the necessary action to recover the losses and blacklist the firm. The decision of TSREDCO in this regard will be final and binding on the tenderer.

7.14. Payment Terms

7.14.1. At the time of issuing of Work Order, the successful bidder shall submit an undertaking letter to TSREDCO which is equal to 10% of work order (including Taxes and Duties) value that can be deducted from the respective bills/invoice. The same amount will be returned by TSREDCO to successful bidder after fulfilling warranty period plus three months.

7.14.2. TSREDCO service charges @ 3% plus GST @ 18% as applicable of the actual project completion cost shall be deducted at the time of release of payment.

7.14.3. Taxes and duties shall be paid extra by the bidder as applicable on the TSREDCO service charges and the bid processing fee.

7.14.4. Payment of the project cost shall be paid by the TSREDCO directly to the successful bidder after satisfactory TSREDCO inspection report signed by TSREDCO representative, photographs and all necessary required documents & on submission of invoice to TSREDCO Head Office.

7.14.5. 70% payment will be made to the successful bidder by TSREDCO within 30 to 45 days on submission of all necessary and required documents and 20% payment will be made after submitting the satisfactory report from concerned beneficiary.

7.14.6. The Balance 10% will be released after successful completion of warranty period plus three months.

7.15. Validity of Empanelment

The validity of Empanelment and the price accepted shall be upto 31.03.2019.
PART –III: GENERAL TECHNICAL SPECIFICATIONS
8. Technical Specifications

The Solar PV based standalone LED Streetlight consists of solar photovoltaic (SPV) module, a luminaire, storage battery, control electronics, inter-connecting wires/cables, module mounting pole including hardware and battery box.

8.1. TSREDCO proposing following models of Solar PV based Standalone LED Street Lights under this rate contract tender:

<table>
<thead>
<tr>
<th>Type</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model - I</td>
<td>9W LED based SPV Stand Alone Street Light with GEL Battery.</td>
</tr>
<tr>
<td>Model - II</td>
<td>12W LED based SPV Stand Alone Street Light with GEL Battery</td>
</tr>
<tr>
<td>Model - III</td>
<td>18W LED based SPV Stand Alone Street Light with GEL Battery</td>
</tr>
<tr>
<td>Model - IV</td>
<td>24W LED based SPV Stand Alone Street Light with GEL Battery</td>
</tr>
<tr>
<td>Model - V</td>
<td>18W X 4 Arm LED based SPV Stand Alone Street Light with GEL Battery</td>
</tr>
<tr>
<td>Model - VI</td>
<td>24W X 4 Arm LED based SPV Stand Alone Street Light with GEL Battery</td>
</tr>
</tbody>
</table>

8.1.1. The configuration of each model with Specifications is described below:

<table>
<thead>
<tr>
<th>Model</th>
<th>PV Module</th>
<th>Type of module</th>
<th>Battery (fitted in suitable box with lock &amp; key)</th>
<th>Light Source &amp; Output</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>I - 9W</td>
<td>45Wp under STC</td>
<td>Crystalline silicon IEC/MNRE approved</td>
<td>Tubular GEL , 12V- 40 AH @ C/10 at DoD 75% discharge rate</td>
<td>9 Watt (Max.), W-LED luminaire, dispersed beam, soothing to eyes with the use of proper optics and diffuser with 130 lm/Watt efficacy. Minimum 16 Lux output</td>
<td>5 mtr GI Pole mounted, Minimum 4meters above the ground level</td>
</tr>
<tr>
<td>II -12W</td>
<td>60Wp under STC</td>
<td>Crystalline silicon IEC/MNRE approved</td>
<td>Tubular GEL , 12V- 75 AH @ C/10 at DoD 75% discharge rate</td>
<td>12 Watt (Max.), W-LED luminaire, dispersed beam, soothing to eyes with the use of proper optics and diffuser with 130 lm/Watt efficacy. Minimum 16 Lux output</td>
<td>6 mtr GI Pole mounted, Minimum 5 meters above the ground level</td>
</tr>
<tr>
<td>III -18W</td>
<td>90Wp under STC</td>
<td>Crystalline silicon IEC/MNRE approved</td>
<td>Tubular GEL , 12V- 100 AH @ C/10 at DoD 75% discharge rate</td>
<td>18 Watt (Max.), W-LED luminaire, dispersed beam, soothing to eyes with the use of proper optics and diffuser with 130 lm/Watt efficacy. Minimum 30 Lux output</td>
<td>6 mtr GI Pole mounted, Minimum 5 meters above the ground level</td>
</tr>
<tr>
<td>Model</td>
<td>PV Module</td>
<td>Type of module</td>
<td>Battery (fitted in suitable box with lock &amp; key)</td>
<td>Light Source &amp; Output</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>-----------</td>
<td>----------------</td>
<td>-----------------------------------------------</td>
<td>-----------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>IV-24W</td>
<td>125Wp under STC</td>
<td>Crystalline silicon IEC/MNRE approved</td>
<td>Tubular GEL, 12V- 120 AH @ C/10 at DoD 75% discharge rate</td>
<td>24 Watt (Max.), W-LED luminaire, dispersed beam, soothing to eyes with the use of proper optics and diffuser with 130 lm/Watt efficacy along with dimmer. Minimum 35 Lux output</td>
<td>6 mtr GI Pole mounted, Minimum 5 meters above the ground level</td>
</tr>
<tr>
<td>V-18W</td>
<td>500Wp under STC (250Wp X 2 No.)</td>
<td>Crystalline silicon IEC/MNRE approved</td>
<td>Tubular GEL, 12V- 200 AH (2 No.) @ C/10 at DoD 75% discharge rate</td>
<td>18 Watt (4 arm (Max.)), W-LED luminaire, dispersed beam, soothing to eyes with the use of proper optics and diffuser with 130 lm/Watt efficacy along with dimmer. Minimum 35 Lux output</td>
<td>Hot dip galvanized pole. The pole should be 6 m height above ground level and 1.5m below ground level, top 2.5m (h) X 76.1mm (od) X 3.5mm thickness and bottom 4.5m (h) X 115mm (od) X 4mm thickness. 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.</td>
</tr>
<tr>
<td>VI-24W</td>
<td>500Wp under STC (250Wp X 2 No.)</td>
<td>Crystalline silicon IEC/MNRE approved</td>
<td>Tubular GEL, 12V- 200 AH (2 No.) @ C/10 at DoD 75% discharge rate</td>
<td>24 Watt (4 arm (Max.)), W-LED luminaire, dispersed beam, soothing to eyes with the use of proper optics and diffuser with 130 lm/Watt efficacy along with dimmer. Minimum 35 Lux output</td>
<td></td>
</tr>
</tbody>
</table>

8.2.1. Solar Photovoltaic Modules:

- The PV modules used should be made in India.
- The PV modules used must qualify to the latest edition of IEC PV module qualification test or equivalent BIS standards Crystalline Silicon Solar Cell Modules IEC 61215/IS14286. In addition, the modules must conform to IEC 61730 Part-2 - requirements for construction & Part 2 – requirements for testing, for safety qualification or equivalent IS.
a) For the PV modules to be used in a highly corrosive atmosphere throughout their lifetime, they must qualify to IEC 61701/IS 61701
b) Protective devices against surges at the PV module shall be provided. Low voltage drop bypass diodes shall be provided.
c) PV modules must be tested and approved by one of the IEC authorized test centers.
d) The module frame shall be made of corrosion resistant materials, preferably having anodized aluminum.

- The rated output power of any supplied module shall have ONLY POSITIVE tolerance
- The peak-power point voltage and the peak-power point current of any supplied module and/or any module string (series connected modules) shall not vary by more than 2 (two) per cent from the respective arithmetic means for all modules and/or for all module strings, as the case may be.
- The module shall be provided with a junction box with either provision of external screw terminal connection or sealed type and with arrangement for provision of bypass diode. The box shall have hinged, weather proof lid with captive screws and cable gland entry points or may be of sealed type and IP-65 rated.
- Curves at STC should be provided by bidder.
- Modules deployed must use a RF identification tag LAMINATED INSIDE. The following information must be mentioned in the RFID used on each modules (must be able to withstand harsh environmental conditions).
  a) Name of the manufacturer of the PV module
  b) Name of the manufacturer of Solar Cells.
  c) Month & year of the manufacture (separate for solar cells and modules)
  d) Country of origin (separately for solar cells and module)
  e) I-V curve for the module Wattage, Im, Vm and FF for the module
  f) Unique Serial No and Model No of the module
  g) Date and year of obtaining IEC PV module qualification certificate.
  h) Name of the test lab issuing IEC certificate.
  i) Other relevant information on traceability of solar cells and module as per ISO 9001 and ISO 14001

8.2.2. Battery

  i. Gel Type.
  ii. The battery will have a minimum rating of 12V at C/10 discharge rate.
  iii. 75 % of the rated capacity of the battery should be between fully charged and load cut off conditions.
  iv. Battery should conform to the latest BIS/ International standards.
  v. The Batteries makes should be empanelled with MNRE.

8.2.3. Light Source

  i. The light source will be a white LED type.
ii. The colour temperature of white LED used in the system 5500K to 6500K.
iii. LED chip efficacy shall be more than 135 Lumens/watt at Ti 25deg C
iv. The light output from the white LED light source should be constant throughout the duty cycle.
v. The lamps should be housed in an assembly suitable for outdoor use.
vi. The temperature of heat sink should not increase more than 20°C above ambient temperature during the dusk to dawn operation.
vii. Cover/glass with lens Fixture cover — UV stabilized Polycarbonate or toughened glass be required with proper IP66 provision.
viii. Colour rendering index (CRI) of the LEDs used in the luminaires hall be greater than 80
ix. Life span of LEDs used in the Luminaire shall be more than 50,000 hours at 80% light output.

8.2.4. Electronics

i. The total electronic efficiency should be at least 90%.
ii. Electronics should operate at 12 V and should have temperature compensation for proper charging of the battery throughout the year.
iii. No Load current consumption should be less than 20 mA.
iv. The PV module itself should be used to sense the ambient light level for switching ON and OFF the lamp.
v. The PCB containing the electronics should be capable of solder free installation and replacement.
vi. Suitable dimmer must be included.
vii. Necessary lengths of wires/cables, switches suitable for DC use and fuses should be provided.

8.2.5. Electronic protections

i. Adequate protection is to be incorporated under “No Load” conditions e.g. when the lamp is removed and the system is switched ON.
ii. The system should have protection against battery overcharge and deep discharge conditions.
iii. Fuse should be provided to protect against short circuit conditions.
iv. Protection for reverse flow of current through the PV module(s) should be provided.
v. Electronics should have temperature compensation for proper charging of the battery throughout the year.
viii. Adequate protection should be provided against battery reverse polarity.
ix. Load reconnect should be provided at 80% of the battery capacity status.

8.2.6. Mechanical Components

i. A corrosion resistant metallic frame structure should be fixed on the pole to hold the SPV module.

ii. The frame structure should have provision to adjust its angle of inclination to the horizontal, so that it can be installed at the specified tilt angle.

iii. The pole should be made of Galvanised Iron (GI) pipe withstanding the speed for the wind zone of the location where the SSL Pole is proposed to be installed (wind speed of 180 kmph)

iv. The height of the pole should be as mentioned in the respective model specification after grouting and final installation.

v. The pole should have the provision to hold the luminaire.

vi. The lamp housing should be water proof and should be painted with a corrosion resistant paint.

vii. A vented, acid proof and corrosion resistant metallic box or plastic box [made of Polypropylene Copolymer (PP-CP)] with a locking arrangement for outdoor use should be provided for housing the battery.

8.2.7. Indicators

The system should have two indicators, green and red.

a. 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.

b. Red indicator should indicate the battery “Load Cut Off” condition.

8.2.8. Quality and Warranty

i. The street lighting system (including the battery) will be warranted for a period of five years from the date of supply.

ii. The PV module(s) will be warranted for a minimum period of 25 years from the date of supply. The PV modules must be warranted for their output peak watt capacity, which should not be less than 90% at the end of Ten (10) years and 80% at the end of Twenty five (25) years.

iii. The Warranty Card to be supplied with the system must contain the details of the system.

8.2.9. Operation and Maintenance manual

An Operation, Instruction and Maintenance Manual, in English and the local language, should be provided with the Solar Street Lighting System. The following minimum details must be provided in the Manual:

- Basic principles of Photovoltaics.
- A small write-up (with a block diagram) on Solar Street Lighting System - its...
components, PV module, battery, electronics and luminaire and expected performance.

- Type, Model number, Voltage & capacity of the battery, used in the system.
- The make, model number, country of origin and technical characteristics (including IESNA LM-80 report) of W-LEDs used in the lighting system.
- About Charging and Significance of indicators.
- Clear instructions about erection of pole and mounting of PV module (s) and lamp housing assembly on the pole.
- Clear instructions on regular maintenance and trouble shooting of the Solar Street Lighting System.
- DO's and DON'T's.
- Name and address of the contact person for repair and maintenance, in case of non-functionality of the solar street lighting system.
PART –IV: TECHNICAL BID
1 **Technical bid format (Envelope-I)**
All pages of the Technical Bid shall be organised section-wise, annexed with proof documents, serially numbered and spiral bound intact and submitted) **Loose pages shall not be accepted.**

1.1. **General Particulars of Tenderer**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Name of Tenderer/Firm</td>
</tr>
<tr>
<td>2.</td>
<td>Postal Address</td>
</tr>
<tr>
<td>3.</td>
<td>E-mail address for communication</td>
</tr>
<tr>
<td>4.</td>
<td>Telephone/ Fax No.</td>
</tr>
<tr>
<td>5.</td>
<td>Name, designation, address, contact number and Email of the representative of the tenderer to whom all references shall be made.</td>
</tr>
<tr>
<td>6.</td>
<td>Nature of the firm (Individual/Partnership/Consortium/ Pvt. Ltd /Public Ltd Co./ Public Sector, etc.) Attach attested copy of Registration &amp; Partnership deed/ Memorandum of Association</td>
</tr>
<tr>
<td>7.</td>
<td>Amount and particulars of the Earnest Money Deposited.</td>
</tr>
<tr>
<td>8.</td>
<td>Annual Turnover for last three years i.e 2015-2018 (Attach balance sheets from CA in this regard)</td>
</tr>
<tr>
<td>9.</td>
<td>Name and address of the Indian/foreign collaboration if any.</td>
</tr>
</tbody>
</table>
### 2 Details of Experience

Please fill in information about Supply & Installation of Streetlights in the last three years.

<table>
<thead>
<tr>
<th>Details</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Qty (No.)</td>
</tr>
<tr>
<td>Solar Lanterns</td>
<td></td>
</tr>
<tr>
<td>No. of Solar LED Streetlights</td>
<td></td>
</tr>
<tr>
<td>Solar home lights</td>
<td></td>
</tr>
<tr>
<td>If any other systems (specify)</td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
</tr>
<tr>
<td>Total Capacity in kW</td>
<td></td>
</tr>
<tr>
<td>Total Contract Amount (Rs.)</td>
<td></td>
</tr>
</tbody>
</table>

Enclose copies of related work orders along with proof for satisfactory completion of that work.

Telangana State Renewable Energy Development Corporation Limited

Page 30

Authorized Signature of Bidder with Seal
3 Details about the blacklisting, if any
Information on litigation history in which Bidder is involved.

1) Whether blacklisted/ Debarred/Suspended from execution of work.
2) Other litigations. If any including Court litigations. Arbitrations etc.

<table>
<thead>
<tr>
<th>Department and concerned officer</th>
<th>Other party (ies)</th>
<th>Case of dispute</th>
<th>Amount involved</th>
<th>Remarks showing present status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

4 Details about the Components to be used

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Description</th>
<th>Name of Manufacturer</th>
<th>Manufacturing Plant address &amp; Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>PV Module</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>LED Luminaries</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Solar Batteries</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Charge Controllers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Cables</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

5 Technical Details of Components

<table>
<thead>
<tr>
<th>S.No</th>
<th>Description</th>
<th>To be furnished by the tenderer</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.</td>
<td>SPV module</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Type of Module</td>
<td>Mono/ Poly crystalline</td>
</tr>
<tr>
<td>2</td>
<td>Make</td>
<td></td>
</tr>
</tbody>
</table>
| 3    | (a) Availability of RFID tag  
(b) Whether inside the module |                                 |
| 4    | Max power at STC Pmax (W) |                               |
| 5    | Max power voltage Vmp(V) |                               |
| 6    | Max power current Imp(A) |                               |
| 7    | Open circuit voltage Voc (V) |                      |
| 8    | Short circuit current Isc (A) |                         |
| 9    | Load voltage V ld (V) |                               |
| 10   | Conversion Efficiency |                                 |
| 11   | No of cells per module |                                 |
| 12   | No of bypass diodes in module |                      |
| 13   | Solar module frame material |                     |
| 14   | Module Dimension     |                                 |
| 15   | Module Weight        |                                 |
| 16   | No of Modules        |                                 |
| 17   | Series/ parallel combination |                    |
18 Other details, if any

<table>
<thead>
<tr>
<th>B. LED luminaries</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Make</td>
</tr>
<tr>
<td>2 Wattage</td>
</tr>
<tr>
<td>3 Lumenes per Watt</td>
</tr>
<tr>
<td>4 Output Wattage</td>
</tr>
<tr>
<td>5 LED Diode Make</td>
</tr>
<tr>
<td>6 Diode Wattage</td>
</tr>
<tr>
<td>7 Efficiency of the Luminaire</td>
</tr>
<tr>
<td>i. Others</td>
</tr>
<tr>
<td>ii. Fault indicators</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C. Solar Batteries</th>
</tr>
</thead>
<tbody>
<tr>
<td>i. Type of Battery</td>
</tr>
<tr>
<td>ii. Make</td>
</tr>
<tr>
<td>iii. Nominal Capacity</td>
</tr>
<tr>
<td>iv. Other details if any</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>D. Cables</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Make</td>
</tr>
<tr>
<td>2 Size &amp; Type</td>
</tr>
<tr>
<td>3 Standard</td>
</tr>
<tr>
<td>4 Other details, if any</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>E. Charge Controllers</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Make</td>
</tr>
<tr>
<td>2 Size</td>
</tr>
<tr>
<td>3 Other details if any</td>
</tr>
</tbody>
</table>

Signature of the authorised person:
Name of the authorised person:
Designation:
Name and Address of Bidder
Stamp of bidder
Conditions of contract for Supply, installation & Commissioning:
The following shall supplement the conditions already contained in the other parts of these specifications and documents and shall govern the scope of contract related to the Supply, Installation and commissioning.

Scope of services: - The scope of the work and duties and responsibilities of the contractor shall broadly include the following:

1. Supply & Installation including assembly, performing trail and pre-commissioning tests, adjustment, calibration etc, of the Solar PV based Standalone LED Streetlights and equipment.
2. Initial operation of the Solar PV based Standalone LED Streetlights and equipment till successful completion of trail operations.
3. Repairs, modifications and alterations, etc., of the Solar PV based Standalone LED Streetlights and equipment, whenever necessary until the warranty ends i.e., up to 5 years from successful commission.
4. Rendering clarification and guidance, on technical problems and drawings/documents relating to the Solar PV based Standalone LED Streetlights and equipment.
5. Preparation of detailed programmes/schedules for Installing and commissioning activities of the Solar PV based Standalone LED Streetlights and equipment including material and manpower planning.
6. Any other related services though not specifically mentioned herein before but necessary for proper execution of the work, as stipulated.
7. The bidder shall make arrangements for the storage at site.
8. Coordination with respective line departments shall be in the scope of bidder.

Work and Services
The successful bidder shall undertake to perform the complete job as per scope above. Such parts as may have not been specifically included but otherwise form part of the job are deemed to be included unless otherwise specifically excluded.

The successful bidder shall arrange for the services of fully qualified and competent supervising Engineer/Engineers and necessary number of personnel as the successful bidder deems it absolutely necessary with the requisite specialized skills for the erection, testing and commissioning of equipment.
All tools required for installation shall be arranged by the successful bidder. Inspection and testing of the complete installation and putting in regular service and shall bear the overall responsibility of the satisfactory installation, testing and commissioning of the equipment. The successful bidder shall make his own arrangements for Boarding & Lodging of his personnel.

**The following facilities and services are also covered in the scope of successful bidder**

Unloading and loading of equipment and accessories, transportation to the site and storage. Providing of necessary labor force required for the execution of the job. Providing of necessary transport facilities for the staff to be deputed by the successful bidder for installation work.

**Commissioning Report**

The buyer and successful bidder shall properly maintain in the agreed formats their respective records of all observations and measurements taken in respect of all tests and operations. Joint protocol shall be signed on completion of each and every test / check till the trail operation. During trail operations all readings shall be jointly maintained and signed. On successful completion of trail operations, a report shall be jointly prepared and signed indicating results of all the tests / checks and trail operation readings.

Signature of the authorised person:

Name of the authorised person:

Designation:

Name and Address of Bidder:

Stamp of bidder:
Checklist to accompany the tender

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Description</th>
<th>Submitted in Envelope I</th>
<th>Page No. (see Note below)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Copy of Contractors valid empanelment certificate with TSREDCO</td>
<td>Yes /No</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Demand draft toward requisite Bid Security/ EMD (issued by any Nationalized /Scheduled bank)</td>
<td>Yes /No</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Demand draft towards tender document fee</td>
<td>Yes /No</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Copy of PAN card.</td>
<td>Yes /No</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Copy of latest Income Tax Clearance returns submitted along with proof of receipt (Latest SARAL form).</td>
<td>Yes /No</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Copies of GST Registration Certificate.</td>
<td>Yes /No</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Latest GST/ Sales Tax clearance certificate.</td>
<td>Yes /No</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Availability of local service centers/ technical personnel</td>
<td>Yes /No</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Information on litigation history in which Bidder is involved.</td>
<td>Yes /No</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Any other documents/certificate as specified in tender conditions</td>
<td>Yes /No</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Experience Certificate</td>
<td>Yes /No</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>NSIC Certificate* for exemption of Bid Security/ EMD</td>
<td>Yes /No</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Company Registration Certificate</td>
<td>Yes /No</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Annual financial statements certified by CA</td>
<td>Yes /No</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>All the technical specifications supportive documents as per the tender document</td>
<td>Yes /No</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Empanelled with TSREDCO</td>
<td>Yes /No</td>
<td></td>
</tr>
</tbody>
</table>

Notes:

1. All the statements copies of the certificates, documents etc., enclosed to the Technical bid shall be given page numbers on the right corner of each certificate, which will be indicated in column (4) against each item. The statements furnished shall be in the formats appended to the tender document.

2. The information shall be filled-in by the Tenderer in the check list, as applicable and shall be enclosed to the Technical bid for the purposes of verification as well as evaluation of the tenderer’s Compliance to the qualification criteria as provided in the Tender document.

3. The bidder shall sign along with stamp on all the statements, documents, certificates by him, owning responsibility for their correctness/authenticity.

4. The technical bid along with all the supportive information as per the tender document shall be properly prepared and enclosed in the bid. The bid document shall be spiral bounded and placed in the respective envelopes and submitted to the address mentioned in the tender document.

*The NSIC Certificate shall be with reference to this tender document duly mentioning the tender Ref. No.
PART –V: FINANCIAL BID
1 Financial Bid terms and Conditions

i. Price(s) shall be FIRM and not subject to escalation on any account, till the contract is executed in full and its subsequent amendments accepted by the supplier even though the completion/execution of order may take longer time than delivery period incorporated and accepted in contract.

ii. The prices quoted shall be lump sum and on FOR destination basis inclusive of all taxes and duties as mentioned in the format provided. The prices shall be FIRM throughout and until Supply, Delivery, Erection, installation, testing, commissioning including 5 year warranty period of the equipment/system covered under the contract is completed.

iii. All applicable taxes/duties/levies etc., of state and central Govt., and any other taxes and duties that are applicable for such contracts in the State of Telangana as on the date of payment released shall be considered.

iv. The Percentage rates of duties and taxes, etc., so considered and the price shall be clearly indicated in the financial bid without fail along with the price for Supply, Installation & Commissioning separately as per the format provided.

1.1 Taxes, Levies and Duties: all the applicable taxes payable shall be shown separately in the invoice.

1.2 Variations in Statutory Levies: Any variation, upward or downward, in statutory levies or new levy is introduced after opening of the bids/placement of order shall be to the account of the Corporation, unless otherwise mentioned in the contract, provided that the delivery is completed within the contractual delivery schedule. In cases where delivery schedule is not adhered to by the supplier and there is upward variation/revision after the agreed delivery date, the bidder/supplier shall bear the impact of such increased levies and if there is downward variation/revision, the corporation shall be given advantage to that extent.

All royalties for patent or charges for the use or infringement thereof that may be involved in the construction or use of any equipment shall be included in the financial bid. The bidder/supplier shall protect the Corporation against any and all claims arising on account of the use thereof. The Corporation agrees to furnish the supplier any appropriate information or assistance.
1.3 Liquidated Damages:

In case the successful bidder fails to achieve the successful commissioning of the Solar PV based Standalone LED Streetlights within the due date for completion as indicated in the respective Work Order, then the Corporation shall levy the liquidated damages on the contractor at the rate of 1% (one percent) of the contract price per week of delay or part thereof subject to a maximum of 10% of total contract price. Liquidated Damages so levied will be recovered from the supply/erection bills of the Contractor. Notwithstanding to this the security deposit/contract performance security will be forfeited as the respective work will be awarded to another successful bidder.

1.4 Timely Completion:

The work proposed by TSREDCO under promotional policies and time bound programme outlined by the Government of Telangana and thus the completion period is essence of the contract and the successful bidder shall take all necessary measures to execute the project in the least possible period preferably before scheduled completion period as mentioned in the respective work order.

1.5 Removal of Rejected Goods and Replacement:

a. If upon delivery, the material/ equipment is found not in conformity with the specifications stipulated in the contract, whether inspected and approved earlier or otherwise, those shall be unacceptable to the Corporation or its authorized representative. A notification to this effect shall be issued to the supplier, normally within 10 days from the date of receipt of materials at stores.

b. Supplier shall arrange suitable replacement supplies and remove the rejected goods within 7 days from the date of notification failing which, the goods shall be dispatched to vendor by road transport on, freight to pay basis “at suppliers risk and cost.

c. External damages or shortages that are prima-facie the results of rough handling in transit or due to defective packing shall be intimated within a fortnight of the receipt of the materials. In case of internal defects, damage or shortages or any internal parts, which cannot ordinarily be detected on a superficial visual examination, though due to bad handling in transit or defective packing should be intimated within 3 months from the date of receipt of these articles. In either case the damaged or defective material should be replaced by the supplier free of cost to the Corporation.
d. If no steps are taken within 15 days of receipt of intimation of defects or such other reasonable time as the corporation may deem proper to afford, the corporation may without prejudice to its other rights and remedies arrange for repairs/ rectification of the defective materials or replace the same and recover the expenditure incurred from the deposits such as security deposit, guarantees or other monies available with the corporation or by resorting to legal action.
FINANCIAL BID (ENVELOPE – II)

FINANCIAL BID (ENVELOPE–II)

The cost SPV power plants shall include their respective components as per their respective specification, including cables, MCBs, switches, fuses etc., as per the site requirement

Model-I: 9W SSL - GEL Battery

<table>
<thead>
<tr>
<th>Sl.No</th>
<th>Item Description (BoM)</th>
<th>Qty</th>
<th>Basic Price of each item</th>
<th>Taxes (GST)</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Solar Pannel - Crystalline silicon IEC / MNRE approved</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>(3<em>4</em>5)+(3*4)</td>
</tr>
<tr>
<td>2</td>
<td>Tubular GEL Battery</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>9 Watt (Max.), W-LED luminaire,</td>
<td></td>
<td></td>
<td>5%</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>2.5 Sq.mm Cables</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>GI Pole- 5 mtrs height with battery box, Pannel structure</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Luminary arm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Transportation</td>
<td></td>
<td></td>
<td>18%</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Erection and Commission of unit</td>
<td></td>
<td></td>
<td>18%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(Amount in Wards................................................................................................................only)
# Model-II: 12W SSL - GEL Battery

<table>
<thead>
<tr>
<th>Sl.No</th>
<th>Item Description (BoM)</th>
<th>Qty</th>
<th>Basic Price of each item</th>
<th>Taxes (GST)</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Solar Pannel - Crystalline silicon IEC / MNRE approved</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>( (3\times4\times5) + (3\times4) )</td>
</tr>
<tr>
<td>2</td>
<td>Tubular GEL Battery</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>12 Watt (Max.), W-LED luminaire, 5%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>2.5 Sq.mm Cables</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>GI Pole- 6 mtrs height with battery box, Pannel structure</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Luminary arm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Transportation</td>
<td></td>
<td></td>
<td>18%</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Erection and Commission of unit</td>
<td></td>
<td></td>
<td>18%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(Amount in Wards.................................................................only)
# Model-III: 18W SSL - GEL Battery

<table>
<thead>
<tr>
<th>Sl.No</th>
<th>Item Description (BoM)</th>
<th>Qty</th>
<th>Basic Price of each item</th>
<th>Taxes (GST)</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Solar Pannel - Crystalline silicon IEC / MNRE approved</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>((3\times4\times5)+(3\times4))</td>
</tr>
<tr>
<td>2</td>
<td>Tubular GEL Battery</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>18 Watt (Max.), W-LED luminaire,</td>
<td></td>
<td></td>
<td>5%</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Necessary Cables with lugs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>GI Pole- 6 mtrs height with battery box, Pannel structure</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Luminary arm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Transportation</td>
<td></td>
<td></td>
<td>18%</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Erection and Commissioning of unit</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(Amount in Wardss.................................................................only)
## Model-IV: 24W SSL - GEL Battery

<table>
<thead>
<tr>
<th>Sl.No</th>
<th>Item Description (BoM)</th>
<th>Qty</th>
<th>Basic Price of each item</th>
<th>Taxes (GST)</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.00</td>
<td>Solar Pannel - Crystalline silicon IEC / MNRE approved</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6= (3<em>4</em>5)+(3*4)</td>
</tr>
<tr>
<td>2.00</td>
<td>Tubular GEL Battery</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.00</td>
<td>18 Watt (Max.), W-LED luminaire,</td>
<td></td>
<td></td>
<td>5%</td>
<td></td>
</tr>
<tr>
<td>4.00</td>
<td>Necessary Cables with lugs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.00</td>
<td>GI Pole- 6 mtrs height with battery box, Pannel structure</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.00</td>
<td>Luminary arm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.00</td>
<td>Transportation</td>
<td></td>
<td></td>
<td>18%</td>
<td></td>
</tr>
<tr>
<td>8.00</td>
<td>Erection and Commissioning of unit</td>
<td></td>
<td></td>
<td>18%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(Amount in Wards........................................................................................................only)
### Model-V: 18W X 4 Arm LED based SPV Stand Alone Street Light with GEL Battery

<table>
<thead>
<tr>
<th>Sl.No</th>
<th>Item Description (BoM)</th>
<th>Qty</th>
<th>Basic Price of each item</th>
<th>Taxes (GST)</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Solar Pannel - Crystalline silicon IEC / MNRE approved</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6= (3<em>4</em>5)+(3*4)</td>
</tr>
<tr>
<td>2</td>
<td>Tubular GEL Battery</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>18 Watt (Max.), W-LED luminaire,</td>
<td></td>
<td></td>
<td>5%</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Necessary Cables with lugs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Hot dip galvanized pole. The pole should be 6 m height above ground level and 1.5m below ground level, top 2.5m (h) X 76.1mm (od) X 3.5mm thickness and bottom 4.5m (h) X 115mm (od) X 4mm thickness.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Luminary arm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Transportation</td>
<td></td>
<td></td>
<td>18%</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Erection and Commissioning of unit</td>
<td></td>
<td></td>
<td>18%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(Amount in Wards..................................................................................only)
### Model-VI: 24W X 4 Arm LED based SPV Stand Alone Street Light with GEL Battery

<table>
<thead>
<tr>
<th>Sl.No</th>
<th>Item Description (BoM)</th>
<th>Qty</th>
<th>Basic Price of each item</th>
<th>Taxes (GST)</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Solar Pannel -Crystalline silicon IEC / MNRE approved</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6=(3<em>4</em>5)+(3*4)</td>
</tr>
<tr>
<td>2</td>
<td>Tubular GEL Battery</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>18 Watt (Max.), W-LED luminaire,</td>
<td></td>
<td></td>
<td>5%</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Necessary Cables with lugs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Hot dip galvanized pole. The pole should be 6 m height above ground level and 1.5m below ground level, top 2.5m (h) X 76.1mm (od) X 3.5mm thickness and bottom 4.5m (h) X 115mm (od) X 4mm thickness.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Luminary arm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Transportation</td>
<td></td>
<td></td>
<td>18%</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Erection and Commissioning of unit</td>
<td></td>
<td></td>
<td>18%</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(Amount in Wards........................................................................................................only)

**NOTE:**
1. In cases of discrepancy between the cost quoted in Words and in Figures, the lower of the two will be considered. (Total cost offered shall be both in words and figures)
PART-VI: ANNEXURES
To
The V.C & Managing Director
Telangana State Renewable Energy Development Corporation Limited (TSREDCO)
6-2-910, II floor, Vishvesharaya Bhavan,
Khairatabad, Hyderabad - 500 004

Dear Sir,

Sub: Supply, Installation and Commissioning Solar PV based Standalone LED street lighting systems at various locations in Telangana State

Tender Reference: TSREDCO/SSL/RC/02/2017-18, DATED.31/03/2018

****

1. We have examined the Tender for Supply, Installation and Commissioning of Solar based LED street lights as specified in the Tender. We undertake to meet the requirements and services as required and as set out in the Tender document.

2. We attach our Technical Bid and Financial Bid in separate sealed covers as required by the Tender both of which together constitute our proposal, in full conformity with the said Tender.

3. We have read the provisions of Tender and confirm that these are acceptable to us. We further declare that additional conditions, variations, deviations, if any, found in our response shall not be given effect to.

4. We undertake, if our Bid is accepted, to adhere to the requirements as specified in the Tender or such modified plan as may subsequently be agreed.

5. We agree to unconditionally accept all the terms and conditions set out in the Tender document and also agree to abide by this Bid response for a period as mentioned in the Tender from the date fixed for bid opening and it shall remain binding upon us with full force and virtue, until within this period a formal contract is prepared and executed, this Bid response, together with your written acceptance thereof in your notification of empanelment, shall constitute a binding contract between us and TSREDCO.

6. We affirm that the information contained in the Technical Bid or any part thereof, including its schedules, and other documents, etc., delivered or to be delivered to TSREDCO is true, accurate, and complete. This proposal includes all information necessary to ensure that the statements therein do not in whole or in part mislead TSREDCO as to any material fact.

Telangana State Renewable Energy Development Corporation Limited

Authorized Signature of Bidder with Seal
7. We also agree that you reserve the right in absolute sense to reject all or any of the products/service specified in the bid response without assigning any reason whatsoever.

8. It is hereby confirmed that I/We are entitled to act on behalf of our company/organization and empowered to sign this document as well as such other documents, which may be required in this connection.

9. We agree to use only indigenous PV modules in this project.

10. We also declare that our Company/Organisation is not blacklisted by any of the State or Central Government and organisations of the State or Central Government.

11. We undertake to use the BoS components other than PV Modules and Solar grid tie Inverters as per the standards stipulated.

Signature of the authorised person:
Name of the authorised person:
Designation:
Name and Address of Bidder
Stamp of bidder

CERTIFICATE AS TO AUTHORISED SIGNATORIES

I, certify that I am (Name) …………………………… (Designation) …………………, and that (Name)……………………………………. who signed the above Bid has been duly authorized to sign the same on behalf of our Organisation.

Date:

Signature:

Seal:
DECLARATION (TO BE SUBMITTED ON LETTER HEAD)

I / WE ……………………………………………………………………… have gone through carefully all the Tender conditions and solemnly declare that I / we will abide by any penal action such as disqualification or black listing or determination of contract or any other action deemed fit, taken by, the Department against us, if it is found that the statements, documents, certificates produced by us are false / fabricated.

I / WE hereby declare that, I / WE have not been blacklisted / debarred / Suspended / demoted in any department in Telangana or in any State due to any reasons.

Signature of the Tenderer with Seal
DECLARATION BY THE TENDERER (TO BE SUBMITTED ON LETTER HEAD)

I/We……………………………………………………………………………………………………………………………………………………………………
(Hereinafter referred to as Tenderer) being desirous of tendering for the work, under this tender and having fully understood the nature of the work and having carefully noted all the terms and conditions, specifications etc. as mentioned in the tender document do hereby declare that

1. The tenderer is fully aware of all the requirements of the tender document and agrees with all provisions of the tender document and accepts all risks, responsibilities and obligations directly or indirectly connected with the performance of the tender.

2. The Tenderer is fully aware of all the relevant information for proper execution of the proposed work, with respect to the proposed place of works/site, its local environment, approach road and connectivity etc. and is well acquainted with actual and other prevailing working conditions, availability of required materials and labour etc. at site.

3. The Tenderer is capable of executing and completing the work as required in the tender and is financially solvent and sound to execute the tendered work. The tenderer is sufficiently experienced and competent to perform the contract to the satisfaction of TSREDCO. The Tenderer gives the assurance to execute the tendered work as per specifications, terms and conditions of the tender on award of work.

4. The Tenderer has no collusion with other tenderers, any employee of TSREDCO or with any other person or firm in the preparation of the tender.

5. The Tenderer has not been influenced by any statement or promises by TSREDCO or any of its employees but only by the tender document.

6. The Tenderer is familiar with all general and special laws, acts, ordinances, rules and regulations of the Municipal, District, State and Central Government that may affect the work, its performance or personnel employed therein.

7. The Tenderer has never been debarred from similar type of work by any Government Undertaking/Department. (An undertaking on Non-Judicial Stamp paper worth of Rs. 100/- in this regard shall be submitted)

8. The Tenderer accepts that the earnest money/security deposit may be absolutely forfeited by TSREDCO if the selected bidder fails to sign the contract or to undertake the work within stipulated time.

9. This offer shall remain valid for acceptance for 3 (Three) months from the proposed date of opening of Tender.

10. All the information and the statements submitted with the tender are true and correct to the best of my knowledge and belief.

(Signature of Tenderer with seal)
**Important Note:**

All the details and information (attachments) as per requirement mentioned in the tender document shall be placed in the respective Annexures and reference shall be mentioned in the respective locations in the bid. All the annexures shall be submitted in Envelope I. i.e., along with technical bid.