



NIT No: RECPDCL/SOLAR/TRIPURA/2018-19/1996

Date: 07.08.2018

Notice Inviting Tender (Open)
(Invited through e-Tendering mode only)

for

Electrification of un-electrified remote villages of Tripura State through Design, Supply, Transportation, Installation, Commissioning and 5-years Comprehensive Maintenance of 3601 nos. of Solar Home Lighting Standalone systems each of capacity 300Wp at various remote beneficiary households under Saubhagya Scheme

REC Power Distribution Company Limited (RECPDCL)

(A wholly owned subsidiary of REC Ltd., a 'Navaratna CPSE'

Under Ministry of Power, Govt. of India)

CIN no. of RECPDCL: U40101DL2007GOI165779

Corporate office

4th Floor, Kribhco Bhawan,
A-10, Sector-1, Noida 201301
Gautam Budh Nagar
Uttar Pradesh (UP)
Phone: (0120) 4383783
Fax: 0120-4383768
Website: www.recpdcl.in

Description of task, e-tender submission format and procedure is provided in the NIT document available on RECPDCL website (www.recpdcl.in), REC website (www.recindia.nic.in), e-tendering website (www.tenderwizard.com/REC), Central Public Procurement Portal www.eprocure.gov.in

Important Dates	
Date of release of NIT / Tender	07.08.2018
Pre Bid Meeting	14.08.2018 at 11:30 Hours
Last date of submission of Bid	23.08.2018 at 15:00 Hours
Date of Opening of Technical Bid	23.08.2018 at 15:30 Hours
Date of Opening of Financial Bid	To be informed later

Note: In order to apply bid, Online registration has to be done at e-tendering website i.e. www.tenderwizard.com/REC. In general, activation of registration may take about maximum 24 hours subject to the submission of all requisite documents required in the process.

-Sd-
(Bhupender Gupta)
Addl. CEO

[This document is meant for the purpose of engaging of Agencies against this tender and should not be transferred, reproduced or otherwise used for purposes other than specified/issued]

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Section-1
TENDER INFORMATION

Name of the Assignment:

Electrification of un-electrified remote villages of Tripura State through Design, Supply, Transportation, Installation, Commissioning and 5-years Comprehensive Maintenance of 3601 nos. of Solar Home Lighting Standalone systems each of capacity 300Wp at various remote beneficiary households under Saubhagya Scheme

Important Information

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4	Date of Opening of Technical Bid	23.08.2018 at 15:30 Hours
5	Date of Opening of Financial Bid	To be informed later
6	Tender document	The Tender document can be downloaded and viewed from any of the website: www.recpdcl.in (or) www.recindia.nic.in (or) www.eprocure.gov.in (or) (www.tenderwizard.com/REC) at free of cost.
7	Earnest Money Deposit (EMD)	All participating bidders has to submit EMD either in the form of: (i) Demand Draft (DD) in original from a scheduled bank - in favour of "REC Power Distribution Company Ltd" payable at New Delhi/Noida (or) (ii) Bank Guarantee (bid bank guarantee) in original from a scheduled bank as per format of Annexure - 4 . EMD amount was shown at clause no 2.1 EMD table under Section 8 - Commercial terms, Conditions, and other provisions of this tender document.
8	Address for communication	REC Power Distribution Company Limited (RECPDCL), 4th Floor, Kribhco Bhavan, A-10, Sector-1, Noida 201301 Gautam Budh Nagar, Uttar Pradesh (UP) Phone: (0120) 4383783, Fax: 0120-4383768, Email: co.delhi@recpdcl.in
9	Validity of Bid	180 days from the date of opening of bid
10	Contact Person	Shri. Bhupender Gupta, Addl. CEO, REC Power Distribution Company Limited (RECPDCL), Phone: (0120) 4383783; Fax: 0120-4383768, Email: co.delhi@recpdcl.in

Section -2 PREFACE & INTENT

RECPDCL is an ISO 9001:2015 (Quality Management System), ISO 14001:2015 (Environmental Management System), OHSAS 18001:2007 (Occupational Health & Safety) Certified, a wholly owned subsidiary of Rural Electrification Corporation Ltd (REC), a “Navratna CPSE” under the Ministry of Power, Govt. of India.

RECPDCL is engaged in providing value added consultancy services in power sector arena covering Power Generation, Renewable Energy Sector and Energy Efficiency programs including Govt. of India’s power schemes for power utilities across the country and various regulatory assignments with CERC/SERCs. It includes the project works under Rural Electrification, Project Management Consultancy (PMC) works, Detailed Project Report (DPR) preparation for R-APDRP/DDUGJY/RGGVY/NEF and other power project scheme, Third Party Inspection of DDUGJY/ RGGVY/other projects, Feeder Renovation Program, Feeder separation, HVDS program, Lender’s Engineers assignment, IT related assignments in Distribution sector including Energy Audit, Evaluation study for HVDS/Distribution network, AT&C Loss assessment, System study, MRI based billing and Cost Book Data Preparation.

RECPDCL is currently engaged in providing Project Management Consultancy / Project Implementing Agency services to various Discoms across India under different Govt. of India schemes viz., DDUGJY, IPDS, BRGF, Infra projects, R-APDRP, Renewable Energy, Energy Efficiency programs, and other miscellaneous Consultancy assignments.

Tripura State Electricity Corporation Limited (TSECL) engaged RECPDCL as Project Implementing Agency (PIA) for electrification of un-electrified remote villages of Tripura State through Design, Supply, Transportation, Installation, Commissioning and 5-years Comprehensive Maintenance of 3601 nos. of Solar Home Lighting Standalone systems each of capacity 300Wp at various remote beneficiary households under Saubhagya Scheme. Technical specifications for Standalone Solar systems are mentioned at Annexure-1.

Tripura State Electricity Corporation Limited (hereinafter referred as “TSECL”) shall be the Owner of the project however, REC Power Distribution Company Limited (hereinafter referred as “RECPDCL”) shall act as Employer for the Contract under this NIT.

RECPDCL shall be responsible for Electrification of un-electrified remote villages of Tripura State through Design, Supply, Transportation, Installation, Commissioning and 5-years Comprehensive Maintenance of 3601 nos. of Solar Home Lighting Standalone systems each of capacity 300Wp at various remote beneficiary households under Saubhagya Scheme under this NIT.

Employer shall make payments promptly on the submission of requisite documents and fulfillment of stipulated conditions by the successful bidder(s) under the Contract. All invoices/ claims shall be raised by the successful bidder(s) in the name of Owner acting through RECPDCL.

SECTION - 3 **INSTRUCTIONS TO BIDDING AGENCIES**

SUBMISSION PROCESS OF BID DOUMENTS:

A. Downloading & viewing of Tender Document:

Bidders can download and view Tender document from RECPDCL web site www.recpdcl.in (or) e-tender website www.tenderwizard.com/REC (or) REC website www.recindia.nic.in (or) Central Public Procurement Portal www.eprocure.gov.in at free of cost.

B. Participation in e-Bid Submission:

Bidders shall submit their bid documents online through website www.tenderwizard.com/REC

(1) In order to participate in e-Bid submission, it is mandatory for agencies to have log-in User ID and Password. For this purpose, the agency has to register with REC PDCL through tender Wizard website as given below.

Steps for Online Registration:

- (i) Go to website <https://www.tenderwizard.com/REC>
- (ii) Click the link 'Register Me'
- (iii) Enter the details about the E-tendering as per format
- (iv) Click 'Create Profile'
- (v) System will provide / confirmation with Login ID and Password

Note:

- (1) While accessing tenderwizard.com website, please type 'REC' in capital letters only to get access of tender portal.
- (2) Activation of On-Line registration may take about maximum 24 hours. It is the responsibility of the bidder to register in advance.

(2) Please note that the agencies have to obtain digital signature token for applying the bid. Bidders may also obtain the same from Tender Wizard.

Steps for applying for Digital Signature from Tender Wizard:

Download the Application Form from the website <https://www.tenderwizard.com/REC>. Follow the instructions as provided therein. For any kind of support related to e-submission of bids at tender wizard portal you may contact at their helpdesk numbers (011-49424365, 8800496478, 8800591739) and for tender related queries you may contact RECPDCL officials whose address is given in this tender document.

C. Submission of Bid Documents (Online):

Submission of bids will be from www.tenderwizard.com/REC website through online e-tendering mode only.

Agencies should upload bid documents (scanned copies) as mentioned below. Submission of Online bid documents is mandatory.

1. **Letter for Submission of Bid** on Company's letterhead duly signed as per format of **Annexure - 2** along with copies of GST Registration certificate, Income Tax (IT) Permanent Account Number (PAN) card has to be submitted. This is mandatory document for submission.
2. **Bidder's General Details** has to be submitted on Company's letterhead duly signed as per format of **Annexure - 3**.
3. **Earnest Money Deposit (EMD)** EMD has to be deposited either in the form of Demand Draft (DD) in original from a scheduled bank in favour of "REC Power Distribution Company Ltd" payable at New Delhi / Noida (or) in the form of Bank Guarantee (bid bank guarantee) as per format **Annexure - 4**. EMD amount was shown at clause no 2.1 under Section 8 - Commercial terms, Conditions and other provisions. **Scan copy of DD / BG to be uploaded and Original of DD / BG** to be submitted before last date & time of submission of bid. Exemption for payment of EMD amount will be given to Micro and Small Enterprises (MSEs) registered with National Small Industries Corporation Ltd (NSIC). However, relevant valid document / Certificate from NSIC or MSE need to be submitted without which bidders are not entitled for exemption.
4. **Technical Bid** has to be submitted **through online** as per format **Annexure - 5** by mentioning Specification, Make, Model, unit, quantity of all bill of items that will be used in the project.
5. **Financial Bid** has to be submitted **strictly through online mode ONLY** as per format specified at **Annexure-6**.
6. PERT Chart for "Electrification of un-electrified remote villages of Tripura State through Design, Supply, Transportation, Installation, Commissioning and 5-years Comprehensive Maintenance of 3601 nos. of Solar Home Lighting Standalone systems each of capacity 300Wp at various remote beneficiary households under Saubhagya Scheme" has to be submitted as per **Annexure-7**
7. **Acceptance form for participation in Reverse Auction Event** on Company's letterhead duly signed as per format **Annexure - 8**.
8. **Undertaking towards not being black-listed** on company's letterhead duly signed as per format of **Annexure-9**.
9. Duly notarized **Power of Attorney** as per **Annexure-10** (Scanned copy to be uploaded and original to be submitted before the last date & time of Submission of Tender)
10. Duly notarized **Agreement for Consortium/ Joint Venture Firm** as per **Annexure- 11** respectively (Scanned copy to be uploaded and original to be submitted before the last date & time of Submission of Tender)
11. **Integrity Pact (2 copies on Rs. 100/- non-judicial stamp paper)** have to be submitted duly signed and stamped as per format of **Annexure-12**. Scanned copies of Integrity Pacts have to be uploaded and ***originals have to be submitted before last date & time of submission of bid.***
12. **Complete set of this tender document** with duly signed on each page to be submitted as token of acceptance of its contents.

Note for bid hard copy submission:

All the above documents **except Financial bid** should be submitted in hard copy in order, duly numbered, legible, signed by authorized signatory, stamped and kept in an envelope with subject mentioning "Electrification of un-electrified remote villages of Tripura State through Design, Supply, Transportation, Installation, Commissioning and 5-years Comprehensive Maintenance of 3601 nos. of

Solar Home Lighting Standalone systems each of capacity 300Wp at various remote beneficiary households under Saubhagya Scheme” on the top of envelope and addressing to

**Addl. Chief Executive Officer,
REC Power Distribution Company Ltd (RECPDCL),
4th Floor, Kribhco Bhavan,
A-10, Sector-1, Noida 201301
Gautam Budh Nagar
Uttar Pradesh (UP)**

Section – 4 **DETAILED SCOPE OF WORK**

Broad scope of work for the given task but not limited to the following:

Electrification of un-electrified remote villages of Tripura State through Design, Supply, Transportation, Installation, Commissioning and 5-years Comprehensive Maintenance of 3601 nos. of Solar Home Lighting Standalone systems each of capacity 300Wp at various remote beneficiary households under Saubhagya Scheme

Design, Engineering, manufacture, testing, supply including transportation up to F.O.R destination basis (beneficiary location) and storage and delivery of Solar based Home Lighting System: 300 Wp each for every un-electrified household (with PV panel/module, Maximum Power Point Tracking MPPT & charge controller, battery, Poles, Module mounting structure, battery box, cables, LED bulbs, BLDC Fan, DC Power plug, mobile phone charging provision, on line monitoring through mobile phone SMS, civil works, and accessories etc.), installation including 05 (five) years’ comprehensive Maintenance and including supply of spares as per the following specifications, terms and conditions to electrify un-electrified remote villages of Tripura State (the number of villages / districts / households may vary at the time of execution). Details of households to be covered under Saubhagya scheme is as shown at Annexure-15.

Survey as per actual site location and carry out detailed design configuration of the solar Home Lighting System, develop layout drawings for actual execution of the work. Detailed layout along with drawings etc. shall be submitted by the contractor.

A. Solar Home Lighting System

Solar based Home Lighting System of 300 Wp

As per Saubhagya Scheme, a Solar Home System (SHS) should consists of a PV module, control electronics, battery, inter-connecting cables etc.

The System consists of:

a) Solar PV Module (with Module Mounting Structure) : 300 Wp.

b) SPV Module Mounting Structure (MMS) on Pole: A corrosion resistant metallic frame structure to be provided along with PV modules which shall be suitable for fixing on the pole of 3 mtr. length, 40NB

Medium (B-Class) as per IS: 1239 (Part-1) - 2004. The frame structure should have provision so that the module can be oriented at the suitable tilt angle.

c) Battery: 12.8 Volts, 75 Ah (Approx 1000 Wh) Lithium Ferro Phosphate

d) Battery box: A vented wooden/ metallic box/plastic box with acid proof corrosion resistant paint for housing the storage battery indoors should be provided.

e) Solar Charge Controller 12V, 10 A with Maximum Power Point Tracking (MPPT) to appropriately charge and protect the battery against over charge.

f) Load (Supply & connecting):

- i) 5 Nos. of White Light Emitting Diode (W-LED) Luminaire (6.0 Watts each) with holders for 5-6 Hrs. / day with ON/OFF switches.
- ii) one BLDC (Brushless DC) Fan (20Watts) for 5-6 Hrs. / day.
- iii) one DC Plug point for load of max. 25 Watt
- iv) Provision for Mobile phone charging (USB port)
- v) On line monitoring shall also be conducted through Mobile phone SMS (feature to be built-in).

g) Cables and Wiring: ISI marked system wiring should be provided as per following:

- Panel to charge controller: Min. 2 core 4 sq. mm flexible multi strand copper conductor cable as per IS 694. Cable between panel to Solar DC charge controller shall be fixed properly with cable ties and shall be laid underground or enclosed in pipe as per CPWD specifications between installation support and household.
- Charge controller to battery: Min. 2 core 4 sq. mm flexible multi strand copper conductor cable as per IS 694.
- Battery to battery connections: Min. 2 core 4 sq. mm flexible multi-strand copper conductor cable as per IS 694.

All cables shall be terminated using copper lugs (ring type) duly crimped by a crimping machine. The cable shall be free of joints.

Wiring fixtures: Rigid non-metallic 12mm dia conduits for electrical installations as per IS-2509 (latest amendment) having ISI stamping to be used for all system and internal wiring works. The wires must be properly dressed and fixed on supporting structure at 1 feet intervals. Suitable tying materials like nylon cable ties or 16/18 SWG insulated GI wire shall be used to tie / dress the wire at interval of 1 ft. Depending on size of wall structure available at beneficiary house, decision shall be taken to provide length of cable ties. In case brick wall or solid structure of house is available for wiring, clips may be provided at 1 feet distance to hold the rigid nonmetallic 12mm dia conduit pipes. 25 w DC power plug, shall be installed on a switch board properly installed on wall structure. At all corners wiring should be dressed properly using round corners etc.

The detailed technical specification of cable ties shall be included as mentioned below: -

Non-releasable Nylon Cable Ties shall be used suitable for continuous use on -40 degree to +85 degree centigrade temperature. It should be MIL 23190 E Tensile Strength complied cable ties having flame resistance capacity in accordance with UL 94V2. Following sizes of cable ties shall be used depending upon requirement at site.

- (a) 120mm Long - 4.8mm Wide
- (b) 200mm Long - 4.8mm Wide
- (c) 430mm Long - 4.8mm Wide

(VENDORS HAVE TO SUPPLY & CONNECT ALL ABOVE SPECIFIED ITEMS ALONG WITH SOLAR EQUIPMENT/DEVICES. GIVING/PROVIDING POWER CONNECTIONS TO DC LED BULBS, FAN, PLUG POINT IS ALSO PART OF PROJECT SCOPE)

Work involves the following major activities:

1. Design, Engineering, manufacture, testing, supply including transportation, insurance, unloading of material, storage, installation, and comprehensive Guarantee of the system for 5 years after commissioning.
2. The Bidder has to provide OEM's Warranty for SPV module for 25 years. PV modules used in Solar Home Lighting System 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.
3. The Warranty Card to be supplied with the system must contain the details of the system.
4. The bidder should ensure sufficient number of stores for smooth execution of works in Tripura which shall have minimum 2% stock of major items like SPV module, Charge Controller, battery, LED bulbs, DC Fan, MMS structure, cables, civil works etc. ready to cater any requirements/replacements during 5- year Comprehensive maintenance period or during execution at site which shall be verified at any time at sole discretion of RECPDCL.
5. **Asset Identification:** All assets/components/equipments supplied in this tender have to be identified with SAUBHAGYA logo. (Details are in Annexure-1)
6. The Bidder will maintain Stock Register and record of transfer and usage of Spare Material and will submit monthly report of the same to RECPDCL. In case the stock level goes below 80% for more than 30 days for any item, RECPDCL will intimate the same in writing to the Bidder and it will attract penalty of amount equivalent to two times of deviation in stock level. In case the Bidder does not replenish the stock within three months from reporting of the deviation by RECPDCL, Performance Bank Guarantee submitted by the bidder may be forfeited.
7. List of spares required for comprehensive 5 years' maintenance will be required to be submitted after commissioning and the same requires to be approved by RECPDCL.
8. Bidder shall prepare mounting structure drawing along with electrical circuit diagram and submit the same for approving GTP before installation.
9. Bill of material shall be submitted along with Technical Bid.
10. All supplied items and spares should comply Technical Specifications as mentioned in Annexure-1.
11. The Bidder has to take all permits, approvals and licenses, insurance etc.
12. Bidder shall provide Technical Manual, User Manual and O&M (Operation & Maintenance) Manual of the system to RECPDCL/Executing Agencies appointed by RECPDCL.
13. Bidder shall provide training (General/ Technical/ Safety) to RECPDCL's nominated persons/agencies for daily operation, cleaning, monitoring and maintenance of system. Bidder shall

provide maintenance schedule of the system to RECPDCL/Executing Agencies appointed by RECPDCL, Beneficiaries.

14. Any other works though not specifically mentioned but are required to finish the project in all respects for its safe, reliable, efficient and trouble free operation shall also be included and the same shall be supplied and installed by the bidder without any extra cost.

B. Conditions of Contract:

1. Completion Period:

- I. **Complete design, engineering, manufacture, testing, supply including transportation, insurance, unloading of material, installation, commissioning should be completed by 30.11.2018 in all remote villages of Tripura State.**
- II. The Bidder will submit delivery schedule of materials, vendor details along with PERT chart in compliance with point 1 within 3 days after receipt of Work Order. This will be approved by RECPDCL before supply of the material.

However, RECPDCL reserves right to modify above schedule on case to case basis as per requirement of the project at its sole discretion.

2. Insurance:

- I. The bidder shall be responsible and take an Insurance Policy for transit for all the materials to cover all risks and liabilities for supply of materials, unloading, storage, installation, commissioning, 5-year maintenance.
- II. The bidder may also take insurance for Third Party Liability covering loss of human life, engineers & 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.

- 3. Type & Quality of Materials and Workmanship:** The design, engineering, manufacture, supply, testing, installation, and performance of the equipment shall be in accordance with latest appropriate IEC/Indian Standards as detailed in the **Annexure-1** (Technical specifications) of the bid document. Where appropriate Indian Standards and Codes are not available, other suitable standards and codes as approved by the MNRE shall be used. The specifications of the components should meet the technical specifications mentioned in **Annexure-1**

- 4. Comprehensive Maintenance:** The bidder shall be responsible for all required activities for Comprehensive Maintenance of the System for 5 years after commissioning. During this period, the bidder shall be responsible for supply of all spare parts as required from time to time for replacement of defective PV Module, Battery, Charge Controller, etc. The contractor/ bidder shall replace defective material within maintenance Period immediately on the same day of receipt of such material in its Store/Service Center. In case the same is not replaced within same day, RECPDCL or

Executing Agency appointed by RECPDCL shall have full liberty to restore the system in working condition. The expenditure so incurred shall be deducted from the Bidder's pending claims, security/performance guarantee deposit or in other lawful manner by RECPDCL.

- 5. Coordination & Report:** Bidder shall inform the name, address, contact number of the Nodal Officer(s), assigned by the agency to execute the project, who will report about their fortnightly/monthly progress & performance of the assignment. In case, absence of any information is adversely affecting the progress of work, the issue could be escalated to CEO, RECPDCL. Bidder shall submit the progress report fortnightly/monthly to RECPDCL in prescribed format as desired. RECPDCL will have the right to depute its representatives to ascertain the progress of contract at the premises of works of the bidder or at site.

In addition to this, bidder should also provide contact details and email id of Management & key Officials of the company.

6. Inspection & Testing:

- The RECPDCL or its representative shall have the right to inspect and/or to test the products to confirm their conformity to the Contract specifications at no extra cost to the RECPDCL. RECPDCL at its own discretion shall specify what inspections and tests the RECPDCL requires and where they are to be conducted. RECPDCL shall notify the bidder in writing in a timely manner of the schedule of such inspection.
- The inspections and tests may be conducted on the premises of the Bidder or its sub-supplier(s), at point of delivery and/or at the Goods final destination. If conducted on the premises of the Bidder or its sub-supplier(s), all reasonable facilities and assistance, including access to drawings and production data - shall be furnished to the inspectors at no cost to the RECPDCL.
- Pre dispatch inspection shall be carried out on sampling basis (10%) by authorized representative of RECPDCL at its sole discretion.
- Should any inspected or tested Goods fail to conform to the specifications, the RECPDCL may reject the goods and the Bidder shall either replace the rejected goods or make alterations necessary to meet specification requirements free of cost to the RECPDCL.
- The RECPDCL's right to inspect, test and, where necessary, reject the Goods after arrival at Project Site shall in no way be limited or waived by reason of the goods having previously been inspected, tested and passed by the RECPDCL or its representative prior to the goods shipment.
- Nothing in this shall in any way release the Bidder from any warranty/guarantee or other obligations under this Contract.

Note: Scope & nature of work is indicative only; however, RECPDCL reserves the right to add/delete items, relocate project area in scope/nature of work for smooth execution and completion of the project.

Section- 5

Eligibility Criteria for Participation

Bidder must meet the eligibility criteria independently as a Bidding Company or as a Bidding Consortium of two companies with one of the members acting as the Lead Member of the Bidding Consortium. Bidder will be declared as a technically qualified Bidder based on meeting the eligibility criteria and as demonstrated based on documentary evidence submitted by the Bidder in the Bid.

Sl.no	Eligibility Criteria	Supportive Document to be provided by bidder
1	Bidders can be a company incorporated under Companies Act, 1956 or 2013 including any amendment thereto (or) a Partnership firm (or) a Proprietorship Firm (or) Limited Liability Partnership LLP registered with competent authorities. In case, bidder is a Consortium / Joint Venture Firm, both the members of the Consortium/JV should be either registered company in India under Companies Act, 1956 or 2013 including any amendment thereto or Proprietorship Firms or LLP registered with competent authorities or a combination of both. (For JV/Consortium, all members should have document as asked)	Certificate of Incorporation issued under Indian Companies Act 1956 or 2013 from Registrar of Companies to be submitted and/or Proprietorship firm / Partnership firm (registered with Registrar of firms under Partnership Act, 1932) / LLP firm (registered with Ministry of Corporate Affairs under LLP act, 2008) registration certificate.
Financial Eligibility Criteria		
2	The bidder's average annual turnover must be at least ₹ 15 Crore (Rupees Fifteen Crore Only) during the last three financial years, 2017-18, 2016-17, 2015-16. The turnover refers to a company and not the composite turnover of its subsidiaries/sister concerns etc. (For JV/Consortium, members may jointly comply this criteria)	3 years audited balance sheets with Profit & Loss Account details of last 3 financial years (2017-18, 2016-17, 2015-16) should be submitted by the bidder.
3	Net Worth for each of the last three Financial years 2017-18, 2016-17, 2015-16. Note: Net worth means the sum total of the paid up capital and free reserves (excluding reserves created out of revaluation) reduced by aggregate value of accumulated losses (including debit balance in profit and loss account for current year) and intangible assets. (For JV/Consortium, all members should have positive net worth)	Should be positive. (Note: For JV/Consortium, both the members should have net worth positive).
Technical Eligibility Criteria		
4	Bidder should have successfully executed similar solar power projects (Solar Standalone/Grid Connected/ Off-grid/ Mini-grid) in last seven years of value as below:	Bidder should submit copy of Work order (mandatory) along with any other document

	For Single Bidder & Consortium/JV: One Work Order of 8.50 Crores OR Two Work Orders of 5.31 Crores OR Three Work Orders of 4.25 Crores (For JV/Consortium, members may jointly comply this criteria)	from the list below: 1. Proof of receipt of complete payment towards work order. 2. Proof of release of performance bank guarantee against the said work order. 3. Work completion certificate from the client.
General Eligibility Criteria		
5	The bidder should have valid GST registration certificate. (For JV/Consortium, all members should comply this criteria)	A copy of each certificate should be enclosed.
6	The bidder should have Income Tax registration number (PAN). (For JV/Consortium, all members should comply this criteria)	Bidder should submit valid documentary proof of details of income tax registration number (PAN).
7	The bidder should be having office / service center in Tripura.	Registration certificate of office/service centre to be attached.
8	The bidder should have been in operations in India for a period of at least 3 years as on last date of Bid submission.	Audited balance sheets of last three years to be submitted.
9	Bidder (Both members in case of Consortium/JV) should not be black-listed by any Central/State Govt. organization, PSU etc.	Bidder should submit an undertaking in this regard as per format of Annexure-9.

Section – 6

GENERAL CONDITIONS OF BID

1. The bidder shall ensure that deputed personnel are trained and experienced for jobs as defined in scope of work for ensuring the high quality and correctness of jobs and to be carried out in a highly professional, safe, and sound managerial manner.
2. **Additional Requirements / Conditions for Consortium or Joint Venture (JV) bidders (2.1 to 2.11):**
 - 2.1) For JV / Consortium, there shall be a lead bidder exclusively specified and has to propose their associate. Associate's role has to be clearly defined.
 - 2.2) A lead bidder shall submit only one bid for the tender. It or any member of JV shall not be a member either in individual capacity or as a member of another JV / consortium for the same tender.
 - 2.3) All bid documents have to be signed by JV/consortium parties jointly and shall submit as per eligibility and tender requirements.

2.4) Number of members in a JV/ Consortium Firm shall not be more than **TWO**. JV/Consortium with Foreign companies is not allowed.

2.5) Joint venture / Consortium agreement - as per format **Annexure-11** has to be executed between the JV/ Consortium members and shall be submitted by the JV/ Consortium Firm along with the bid documents.

Memorandum of Understanding (MOU) - The complete details of the members of the JV/ Consortium Firm, their share and responsibility in the JV Firm etc. particularly with reference to financial, technical and other obligations shall be furnished in the MOU as per their own customized format.

2.6) Authorized Member of Joint Venture/ Consortium Firm: 'Lead Bidder' shall be authorized on behalf of the Joint Venture/ Consortium Firm to deal with the tender, sign the agreement or enter into contract in respect of the said tender, to receive payment and such activities in respect of this tender/ contract. All notices/ correspondences with respect to the contract would be sent only to this 'Lead Bidder' of the Joint Venture/ Consortium Firm.

2.7) A power of attorney (Annexure-10), duly notarized, indicating that the person(s) signing the bid has / have the authority to sign the bid and thus that the bid is binding upon the Bidder during the full period of engagement with RECPDCL including any extension thereafter or validity of any work awarded to the said Joint Venture/ Consortium Firm.

2.8) Once the bids were submitted, the MOU shall not be modified / altered/ terminated during the period of engagement with RECPDCL including any extension later by RECPDCL or validity of any work order awarded to the said JV/ Consortium. In case, the tenderer fails to observe/comply with this stipulation, the Security Deposit / Performance Bank Guarantee (PBG) shall be liable to be forfeited.

2.9) Duration of the Joint Venture Agreement shall be valid during the entire engagement period/currency of the contract including the period of extension, if any.

2.10) EMD shall be submitted only in the name of 'Lead Bidder' at the time of bid submission and shall be deemed as EMD submitted by JV/ Consortium Firm.

2.11) Lead bidder and its associates are both responsible and liable for all acts / deeds etc jointly and severally for execution of the project/ Work/ Assignment etc. The Joint Venture/ Consortium members shall also be liable jointly and severally for the loss, damages caused to the RECPDCL during the course of execution of the contract or due to non-execution of the contract or part thereof. Failing in any of the above clauses at any time of engagement period, or extension if any will result into disqualification of bids/contract submitted by the bidder.

3. Companies who are single entity (not JV/Consortium) are also need to submit Power of attorney as per format Annexure-10, duly notarized, indicating that the person signing the bid has / have the authority to sign the bid and thus that the bid is binding upon the Bidder during the full period of engagement with RECPDCL including any extension thereafter.
4. RECPDCL reserves the right to accept or reject any or all Bid requests without assigning any reason.
5. RECPDCL reserves the right to waive off any shortfalls; accept the whole, accept part of or reject any or all responses to this tender.
6. RECPDCL reserves the right to cancel the bids at any stage and call for fresh tender.

7. RECPDCL reserves the right to modify, expand, restrict, scrap, re-float the tender without assigning any reason for the same.
8. The responder shall bear all costs associated with the preparation and submission of its bid and RECPDCL will in no case be responsible or liable for these costs, regardless of the conduct or the outcome of the tender process.
9. RECPDCL reserves the right to withdraw the work & get it completed at the risk & cost of the agency, if performance of the agency is unsatisfactory, to whom work has been awarded. Further, the said agency may be black-listed for a period of one year or more for participating in any of the bids invited by RECPDCL. Also, RECPDCL would be free to intimate such black-listing to various state/central utilities/ Ministry of Power/ State Governments/ Other agencies not to consider the said agency for any assignment including of the same on websites.
10. RECPDCL reserves the right to conduct reverse auction.
11. Bidder has to submit test certificates/reports as specified in technical specifications from IECQ / NABL accredited laboratory for relevant IEC / Equivalent BIS Standard or MNRE approved test centers as applicable.
12. In case of supply of any defect material or substandard material, the materials will be rejected & it will be the responsibility of the vendor for taking back & replacing the rejected materials at their own cost.
13. The supplied materials should be strictly as per specifications mentioned in this tender, otherwise the material would be liable for rejection.
14. Validity of Bid shall be 180 days from the last date of bid submission.
15. EMDs received late due to any reason including postal delay will not be considered.
16. Bidder's quoted rates should be firm and fixed. No price variation and escalation will be allowed.
17. Bids must be submitted in English language only.
18. Incomplete, telegraphic or conditional tenders are not accepted.
19. Canvassing in any manner is strictly prohibited. The same will lead to rejection of the submitted bid.
20. The last date of receipt of bids from agencies is 23.08.2018 at 15:00 Hrs. Original, Sealed EMD will only be accepted during office hours on working days through deposit in the tender box kept for the purpose at REC Power Distribution Corporation Ltd. (RECPDCL), 4th Floor, Kribhco Bhavan, A-10, Sector-1, Noida 201301, Gautam Budh Nagar, Uttar Pradesh (UP). EMDs received after due date & time will not be accepted.
21. If due to any reason, the due date is declared as a holiday, the tender will be opened on next working day at the same time.
22. Bidder has to submit Financial bid strictly through online mode ONLY through tender wizard.

23. Schedule of opening of Financial bids will be intimated later. Financial bids shall be opened in RECPDCL Noida office in the presence of such Bidders /their representatives, who desire to be present at the time of opening.
24. The Bid with validity of less than 180 days from the last date of bid submission shall not be considered. The validity can be further extended with mutual consent.
25. Any or all Bids may be rejected or accepted partially or fully without assigning any reason thereof by Chief Executive Officer, RECPDCL.
26. Bidders are requested to watch out RECPDCL website for change of events/additional information from time to time.
27. Bidders are not allowed to advertise/ publicize Solar PV systems installed through this tender without prior approval from RECPDCL.

Section- 7

BID EVALUATION METHODOLOGY & ALLOCATION OF QUANTITY

A. OPENING AND EVALUATION OF TECHNICAL BID:

Opening of technical bids will be through online mode only.

- a. Bidders have to submit documents as per Section-3, Clause-C (Submission of Bid Documents).
- b. Bids duly submitted, will be opened on the date and time indicated in this document in the presence of bidders or their authorized representatives who desire to present.
- c. If due date of receipt / opening of bids happens to be a closed holiday, the bids would be received and opened on the next working day.
- d. REC PDCL reserves the right to postpone and/or extend the date of receipt/opening of Bids or to withdraw the Tender notice, without assigning any reason thereof. In any such cases, the bidders shall not be entitled to any form of compensation from the Company.
- e. RECPDCL will scrutinize all the technical bid documents along with PERT chart submitted by the bidders and shortlist the bidders who qualify based on eligibility criteria, terms and conditions, technical specifications of this tender document.

B. OPENING AND EVALUATION OF FINANCIAL BID:

Opening of financial bids will be through online mode only.

- a. Financial Bids of technically qualified bidders will be opened on the date and time indicated in this document in the presence of bidders or their authorized representatives who desire to be present.

- b. Price Bids (Financial Bids) of Bidders whose EMDs received in original (DD or BG) within due date/time will only be opened. Rest of the Financial bids without submission of requisite EMDs in original (DD or BG) within due date/time will not be opened.
- c. If due date of receipt of Financial Bids/ opening of Financial Bids happens to be a closed holiday, the bids would be received and opened on the next working day.
- d. RECPDCL reserves the right to postpone and/or extend the date of receipt/opening of Financial Bids or to withdraw the Financial Bid notice, without assigning any reason thereof. In any such cases, the bidders shall not be entitled to any form of compensation from the Company.
- e. Financial Bids shall be evaluated on the basis of total price inclusive of all taxes and duties quoted as per Annexure-6.
- f. RECPDCL may or may not conduct reverse auction.

C. ALLOCATION OF QUANTITY:

- a. Based on total price quoted by the bidders, RECPDCL shall arrange the bids in the ascending order i.e. L1, L2, L3, ___ (L1 being the lowest quote).
- b. 50% of the tentative quantity will be allocated to the L1 successful bidder.
- c. For further allocation, (after allocating the quantity to the L1 bidder) based on total price quoted by the bidders, RECPDCL shall arrange the bids in the ascending order i.e. L2, L3, L4 ___ and so on (L2 being the second lowest quote and so on) and allocate 30% of the tentative quantity to L2 bidder and 20% of the tentative quantity to L3 bidder subject to matching the L1 rate.
- d. However, RECPDCL reserves right to select no. of successful bidders at its sole discretion as per requirement of the project.
- e. All the qualified bidders except the L1 bidder will be given 3 days from the date of identification of L1 Bidder to give their consent to execute the work at L1 rate, failing which it will be assumed that they are not interested to match L1 rate and their proposal will be rejected. RECPDCL as its sole discretion may increase the timeline as indicated above.
- f. If certain quantity remains unallocated, RECPDCL may re-distribute such quantity among the successful bidders (to whom quantity is already allocated) in orderly manner at its sole discretion.
- g. RECPDCL at its sole discretion may also allocate more than 50% of the tentative quantity to L1 successful bidder with due consent of such bidder.
- h. If the successful bidder(s), to whom Allocation Letter/Work Order (s) has been issued does not fulfil any of the conditions specified in bid document or demonstrating unsatisfactory progress/work, the RECPDCL reserves the right to annul/cancel the award of Allocation Letter/Work Order(s) of such successful bidder and allocate such quantity to other performing bidders in orderly manner.

Section – 8

COMMERCIAL TERMS, CONDITIONS & OTHER PROVISIONS

1. PRICE:

- 1.1** Price should be quoted as per format of **Annexure-6** which must be inclusive of all costs involved in the project i.e. complete design, engineering, manufacture, testing, supply including transportation, insurance, unloading, Installation, warranty of Solar Home Lighting, and comprehensive maintenance of the supplied system including spares for 5 years after commissioning including applicable GST tax rates.
- 1.2** If it is found that the tax quoted is higher than the applicable tax, in that case applicable taxes will only be paid by RECPDCL and if the tax quoted is lower than the applicable tax, in that case only the quoted taxes will be paid by the RECPDCL.
- 1.3** All taxes as per Income Tax & GST Tax rules of Government of India and Government of Tripura will be payable by the Bidder.
- 1.4** TDS /Labour cess will be deducted from the payment of the Bidder as per the prevalent laws and rules of Government of India and Government of Tripura as the case may be.
- 1.5** Price quoted by the bidder shall remain firm & fixed and shall be binding on the Successful Bidder till completion of Comprehensive Maintenance period irrespective of actual cost of execution of the project. No escalation will be granted on any reason whatsoever. The bidder shall not be entitled to claim any additional charges, even though it may be necessary to extend the completion period for any reasons whatsoever.
- 1.6** The offer must be kept valid for a period of 180 days from the last date of bid submission. No escalation clause would be accepted. The validity can be further extended with mutual consent.
- 1.7** Bids with non-conformity to above will be considered as non-responsive.
- 1.8** Contractor shall ensure timely submission of invoice(s) as per rules/regulations of GST with all required supporting document(s) within a period specified in Contracts/LOA to enable RECPDCL to avail input tax credit. Further, returns and details required to be filled under GST laws & rules should be timely filed by supplier with requisite details.
- 1.9** Supplier/Contractor would promptly pay GST, as per law, for the supplies made to RECPDCL and would upload returns within the prescribed time to enable RECPDCL, to avail the input tax credit.
- 1.10** All necessary adjustment vouchers such as Credit Notes / Debit Notes for any short/excess supplies or revision in prices or for any other reason under the Contract shall be submitted to RECPDCL, as per GST provisions.
- 1.11** In the event of default on his part in payment of tax and submission / uploading of monthly returns, RECPDCL is well within its powers to withhold payments, especially the tax portion, until Vendor/Supplier/Contractor corrects the default and / or complies with the requirements of GST and produces satisfactory evidence to that effect.

2. EARNEST MONEY DEPOSIT (EMD):

2.1 EMD Amount:

EMD Amount (in Rupees)	Total No. of Rural HHs	State
6, 66,060/-	3601	Tripura

The Bidder shall furnish Earnest Money Deposit as per above table in the form of Demand Draft (DD) drawn in favour of "REC Power Distribution Company Ltd." payable at New Delhi / Noida (or) Bank Guarantee (BG) from a scheduled bank (as per Annexure-4).

In case of inadequacy or non-submission of EMD amount, the tender shall be deemed to be disqualified and summarily rejected and Financial bid of such bidders will not be opened.

- 2.2 The initial validity of EMD shall be for a period of 180 days from the last date of bid submission. The validity of EMD shall have to be suitably extended, if necessary, on request by RECPDCL, without which the tender/work order(s) shall be rejected.
- 2.3 Request for adjustment of Earnest Money Deposit against any previous dues with RECPDCL will not be considered.
- 2.4 EMD will be refunded to the unsuccessful bidders within 30 days after finalization of the tender without any interest.
- 2.5 EMD of successful bidder will be returned after acceptance of Allocation Letter issued by RECPDCL and submission of required PBG within 15 days from the date of such acceptance.
- 2.6 Exemption for payment of EMD amount will be given to Micro, Small & Medium Enterprises (MSMEs) registered with National Small Industries Corporation Ltd. (NSIC) or any other body specified by Ministry of MSME. However, relevant valid document / Certificate from NSIC or any other body specified by Ministry of MSME need to be submitted without which bidders are not entitled for any kind of exemption.
- 2.7 EMD shall be forfeited without prejudice to the bidder being liable for any further consequential loss or damage incurred to RECPDCL under following circumstances:
 - a. Hundred percent (100%) of EMD amount, if a Bidder withdraws/revokes or cancels or unilaterally varies his bid in any manner during the period of bid validity specified in the tender document.
 - b. Hundred percent (100%) of EMD amount, if the Successful Bidder fails to unconditionally accept the Allocation Letter/Work Order(s) issued by RECPDCL within 7 days from the date of such Allocation Letter/Work Order(s).
 - c. Hundred percent (100%) of EMD amount, if the Successful Bidder fails to furnish PBG as specified in the tender document.

3. ADVANCE BANK GUARANTEE (ABG):

Successful bidder has to furnish Advance Bank Guarantee of 110% of advance value for release of Mobilization advance with validity up to the target time for completion of installation plus 90 days claim period as per format **Annexure - 13**. The mobilization advance will be adjusted proportionately in subsequent payments. Validity of Advance bank guarantee shall have to be suitably extended if necessary on request by RECPDCL, without which the tender/Work Order(s) shall be rejected. The said deposit would be forfeited, if the supplies are not made as per the Terms & Conditions of the Work Order.

If Bidder does not opt Mobilization advance, he has to submit a letter in original stating the same on company's letterhead with authorized person's signature to RECPDCL.

4. PERFORMANCE BANK GUARANTEE (PBG):

Upon receipt of unconditional acceptance of LOA, detailed proforma invoice of contractor, bidder must deposit Performance Bank Guarantee (PBG) fees @ **10%** of the Work Order value to RECPDCL as per format **Annexure- 14** with validity 5 years 3 months plus three months claim period (**Note:** 5

years maintenance, 3 months installation & Commissioning). PBG will be refunded after the completion of the 5-year maintenance period of awarded Solar Plant, subject to satisfactory performance of the systems. If installation period exceeds more than 3 months, accordingly bidder has to extend PBG provided RECPDCL has given the extension for installation.

The PBG shall be forfeited as follows without prejudice to the bidder being liable for any further consequential loss or damage incurred to RECPDCL:

If the Successful Bidder is not able to supply of materials, installation, comprehensive maintenance to the satisfaction of RECPDCL within sanctioned period, PBG amount submitted shall be forfeited.

5. DELIVERY: The materials must be delivered timely to the site on F.O.R destination basis (beneficiary location) so as to complete the work within sanctioned period. RECPDCL will not issue Form-C during procurement of solar equipment/ Items/ Components etc.

6. PERMIT: The Bidder will arrange for all necessary Permits / clearances to supply material as per Tender specified locations.

7. QUANTITY:

The quantity of all Solar Home lighting Standalone systems given in the Financial Bid (Annexure-6) are provisional. The variation in quantity may take place for the individual item or all items under the contract up to any level. The Contractor shall be responsible for supply and execution of such revised quantities for completion of the project and they shall be paid for such revised quantity as per the rates quoted in the Financial Bid.

If rates and prices of any change are not available in the Contract, the parties thereto shall agree on specific rates for the valuation of the change and all matters therein related to the change. Based on the same, the Employer shall, if it intends to proceed with the Change, issue the Contractor with a Change Order.

8. TAX EXEMPTIONS: Bidder shall claim any kind of tax exemption on its own.

9. LIQUIDATED DAMAGES: For any delay in supply and installation of the system beyond the given scheduled date, the buyer shall without prejudice to its other remedies deduct from the order value as liquidated damage @ 1% of the delayed in commissioning the work per week of delay or part thereof up to maximum 10% of order value. Once the maximum is reached (i.e., 10 weeks of delay) the Work Order would be cancelled and the performance bank guarantee deposit would be forfeited.

10. SPLIT OF WORKS: In view of targeted capacity and limited time available for completion of the task, RECPDCL reserves the right to increase / decrease / split of the work to agencies at the sole discretion of the RECPDCL. Suitable amendment / communication shall be issued in the event of variations in quantities.

11. PAYMENT TERMS:

Sr. No	Milestone	Details of milestone	%
A	Advance Payment (On request of Supplier, interest bearing adjustable initial advance of 10% shall	(1) 1st Instalment: Upon receipt of unconditional acceptance of LOA, detailed proforma invoice of contractor, unconditional & irrevocable Advance Bank Guarantee as per Annexure-11 with a validity up to date of final commissioning in favor of	5%

	be released to Supplier. The annual interest rate shall be calculated based on SBI Base Rate as applicable from time to time.)	RECPDCL amounting to 110% of total advance amount and unconditional & irrevocable Performance Bank Guarantee (PBG) as per Annexure-12 for ten percent (10%) of the total Contract price towards Contract Performance with a validity till completion of 5 years 3 months period plus 3 months claim period.	
		(2) 2nd Instalment: On presentation of contractor's supply invoice and satisfactory utilization certificate supported with documentary evidences of first advance installment. The successful bidder must utilize first advance installment of 5% before requesting for second advance installment.	5%
B	Design, Supply, receipt and acceptance of Materials at site on submission of required documents.	Design, Supply, receipt and acceptance of Materials at ware house/Store(s) maintained by the bidder in Tripura on submission of documents (except Advance Bank Guarantee) indicated in milestone A (1), Contractor's detailed invoice & packing list identifying contents of each shipment, evidence of dispatch (GR/LR copy), Copies of Certificates to the effect of payments of State/Central taxes, duties, levies etc, Certified copy of Insurance policy/Insurance Certificate, Manufacturer's/Contractor's guarantee certificate of Quality, submission of the certificate by RECPDCL's authorized representative that the item(s) have been received and MDCC (Material Dispatch Clearance Certificate) issued by RECPDCL's authorized representative. Supplier can raise Invoices in total two tranches upon completion of 50% of the allocated quantity as per scope of work, other terms and conditions. If Supplier has opted for advance then, proportionate advance shall be adjusted while making payments of this installment. Also, up-to-date accrued interest shall also be recovered.	60%
C	Successful erection, testing and commissioning of materials at site.	After successful erection, testing and commissioning of materials at site. Supplier can raise Invoices in total two tranches upon completion of 50% of the allocated quantity as per scope of work, other terms and conditions.	30%
D	During successful completion of Comprehensive Maintenance.	2% of the total contract price shall be paid yearly on successful completion of comprehensive maintenance during 5 years from the date of final commissioning.	10%

12. FORCE MAJEURE: Force majeure shall mean any cause, existing or future, which is beyond the reasonable control of Bidder or RECPDCL including, but not limited to, acts of God, storm, fire, floods, explosion, epidemics, quarantine, earthquake, strike, riot, lock out, embargo, interference by civil or military authorities, acts, regulations or orders of any governmental authority in their sovereign capacity, acts of war (declared or undeclared) including any acts of terrorism, and all other such acts of similar or analogous nature (where all such acts to be collectively referred to as "Force Majeure"). RECPDCL and Bidder shall not be liable for the failure to perform any obligation in terms of this

Proposal if and to such extent such failure is caused by a Force Majeure, provided that none of such acts of Force Majeure will relieve the Customer from meeting its payment obligations.

13. SUCCESSIONS & ASSIGNS: In case RECPDCL or successful bidder may undergo any merger or amalgamation or a scheme of arrangement or similar re-organization & this contract is assigned to any entity (ies) partly or wholly, the contract shall be binding mutatis mutandis upon the successor entities & shall continue to remain valid with respect to obligation of the successor entities.

14. DISPUTE:

14.1 Disputes under the agreement shall be settled by mutual discussion.

14.2 However, in the event amicable resolution or settlement is not reached between the parties, the differences of disputes shall be referred to and settled by the Sole Arbitrator to be appointed by Chairman, RECPDCL.

14.3 The arbitration proceedings shall be in accordance with the prevailing Arbitration and Conciliation Act, 1996 and Laws of India as amended or enacted from time to time.

14.4 The venue of the arbitration shall be New Delhi, India.

14.5 The fee & other charges of Arbitrator shall be shared equally between the parties.

14.6 The Arbitrator will give the speaking & reasoned award. The party will not be entitled to any Pendent late interest during arbitration proceedings.

15. WARRANTY:

The civil work components, mechanical structures, electrical works including charge controllers/distribution boards/plug points/ all BOM material etc. and overall workmanship of the SPV power plants/ systems must be warranted against any manufacturing/design/ installation defects for a minimum period of 5 years.

PV modules used in solar power plants/ systems must be warranted for their output peak watt capacity, which should not be less than 90% at the end of 10 years and should not be less than 80% at the end of 25 years.

Any defect noticed during warranty period should be rectified/replaced by the supplier free of cost upon due intimation by the concerned Beneficiary/RECPDCL. Care should be necessarily taken to make the system operational within a week of reporting of defect. If the system is not made operational within fifteen days, RECPDCL may rectify the same and charge all expenses incurred on the said account to the vendor.

16. SIGNING OF CONTRACT AGREEMENT:

(a) Finally selected firm will submit the sealed copy of the purchase / work order signed on each page on behalf of the firm as token of acceptance to execute the work as per the terms and conditions laid down in this tender document and Work Order - within 3 days from release of Work Order.

(b) Selected firm will also execute/sign Contract Agreement with RECPDCL on India Non Judicial Stamp paper with validity from starting date of Work Order scope activities till end of CMC period (5 years) - within 10 days from release of Work Order.

17. COMPREHENSIVE MAINTENANCE:

Comprehensive Maintenance will be applicable from the date of commissioning of the system. The scope of comprehensive maintenance must cover supply of spare parts and all consumables, all warranty parts

including services during the contract in force. The payment of maintenance charges under the Comprehensive Maintenance shall depend upon the functionality of the system duly certified by the concerned office/ Authorized officials of RECPDCL. Upon receipt of such certificates, maintenance amount as applicable shall be paid.

Scope of CMC Activities:

Solar Modules:

1. Fortnightly Cleaning and wiping of solar panels using fresh water. Water to be provided by beneficiary.
2. Monthly visual inspection of modules and mounting clamps.
3. Check modules for any broken glass/ discolouration, misaligned modules

Module mounting structure (MMS):

1. Visual inspection of mounting structures, screws and fasteners.
2. Tightening of screws and fasteners as needed

Battery & Charge Controller:

1. General Cleaning.
2. Check LCD display of Charge Controller.
3. Check integrity of wiring.
4. Visual inspection of mechanical fixings of Charge Controller.
5. Inspection of cables

Cables:

1. Visual inspection of cables

Civil works:

1. Checking of foundation of MMS / Pole and remedies

Annexure - 1

TECHNICAL SPECIFICATIONS - Solar Home lighting Standalone Systems

A. Solar Home Lighting System: Supplied Solar Home Lighting System in this project shall meet technical specifications given below:

Technical Specifications should be as per Saubhagya Scheme / MNRE specifications

PV MODULE (S)

- I. Indigenously manufactured PV modules should be used.
- II. The PV modules should be made up of crystalline silicon solar cells and must have a certificate of testing conforming to IEC 61215 Edition II / BIS 14286 from an NABL or IECQ accredited Laboratory.
- III. The module efficiency should not be less than 14%.
- IV. The terminal box on the module should have a provision for opening, for replacing the cable, if required.
- V. There should be a Name Plate fixed inside the module which will give:
 - Name of the Manufacturer or Distinctive Logo.
 - Model Number.
 - Serial Number.
 - Year of manufacture.
- VI. A distinctive serial number starting with NSM will be engraved on the frame of the module or screen printed on the tedlar sheet of the module.

BATTERY

- I. Lithium Ferro phosphate type battery only.
- II. Capacity approx. 1000 Watt Hour
- III. Maximum Depth of Discharge 90%
- IV. Battery should conform to the latest BIS/International standards.

LIGHT SOURCE

- I. The light sources shall be with 6.0 Watts of white LED and light Output should be Minimum 25 Lux when measured at the periphery of 2.5 meter diameter from a height of 2.5 meter
- II. At any point within area of 2.5mlr diameter periphery the light level should not be more than three times of the periphery value.
- III. The illumination should be uniform without Dark Bands or abrupt variations and soothing to the eyes. Higher output would be preferred.
- IV. The colour temperature of W-LEDs used in the system should be in the range of 5500°K-6500°K.
- V. LEDs should not emit ultra violet light
- VI. The light output from the W-LED light source should be constant throughout the duty cycle.
- VII. The lamps should be housed in an assembly suitable for indoor use.

ELECTRONICS

- I. The total electronic efficiency should be at least 85%.
- II. Electronics should have temperature compensation for proper charging of the battery throughout the year.
- III. The idle current should be less than 2 mA
- IV. The voltage drop from module terminals to the battery terminals should not exceed 0.6 volts including the drop across the diode and the cable when measured at maximum charging current.
- V. The PCB containing the electronics should be capable of solder free installation and replacement.
- VI. Necessary lengths of wires/cables, switches suitable for DC use and fuses should be provided.

ELECTRONIC PROTECTIONS

- I. Adequate protection is to be incorporated under 'No Load' condition.
- II. The system should have protection against battery overcharge, deep discharge condition.
- III. Load reconnect should be provided at 80% of the battery capacity status.
- IV. Adequate protection should be provided against battery reverse polarity.
- V. Fuses should be provided to protect against short circuit conditions.
- VI. Protection for reverse flow of current through the PV module(s) should be provided.
- VII. Miniature Circuit Breaker (MCB) protection to be provided at load side to avoid usage of higher loads.

MECHANICAL COMPONENTS

- I. Corrosion resistant frame structure should be provided 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. Light source should be either for wall mounted or ceiling mounted or can be hung from the ceiling in a stable manner, as per site requirements.
- IV. A vented plastic / wooden / metallic box with acid proof corrosion resistant paint for housing the storage battery indoors should be provided.

INDICATORS

- I. The system should have two indicators, green and red.
- II. 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.
- III. Red indicator should indicate the battery ' Load Cut Off' condition

QUALITY AND WARRANTY

- I. The Solar home system including 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. PV modules used in Solar Home lighting System 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. The manufacturers can also provide additional information about the system and conditions of warranty as necessary.

OPERATION and MAINTENANCE MANUAL

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

- I. Basic principles of Photovoltaics.
- II. A small write-up (with a block diagram) on Solar Home lighting System - its components, PV module, battery, electronics and luminaire and expected performance.
- III. Significance of indicators.
- IV. Type, Model number, voltage & capacity of the battery, used in the system.
- V. The make, model number, country of origin and technical characteristics (including IESNA LM-80 report) of W-LEDs used in the lighting system must be indicated in the manual.
- VI. Clear instructions about mounting of PV module(s).
- VII. Clear instructions on regular maintenance and trouble shooting of the Solar Home lighting System.
- VIII. DO's and DONT's.
- IX. Name and address of the contact person for repair and maintenance.

SYSTEM LOSSES: System Losses should be as per the following standard:

- Solar to load directly < 4%
- Solar to battery plus battery to load < 10% excluding battery losses

B. Assets Identification under Saubhagya Scheme:

1. Cable: All types and sizes of Power Cables shall be sequentially marked through embossing the official logo of Saubhagya scheme at each meter length in addition to length in meter, name of manufacturer, name of purchaser and other details as per of technical specifications of Saubhagya scheme.
2. LED Luminaire: All types of LED luminaire shall have engraving/embossing/painted/stamp SAUBHAGYA logo either on base cap or on glass.
3. Pole: All types of Poles shall have engraving/embossing of SAUBHAGYA official logo or painted with post office red colour enamel paint on yellow base.

Quality Certification, Standards and Testing for Solar Home Lighting System:

Quality certification and standards for Solar Home Lighting System are essential for the successful mass-scale implementation of this technology. It is also imperative to put in place an efficient and rigorous monitoring mechanism, adherence to these standards. Hence, all components of Solar Home Lighting System must conform to the relevant standards and certifications given below:

Item System	Applicable BIS/Equivalent IEC Standard or MNRE Specifications	
	Standard Description	Standard Number
Solar PV Systems	Crystalline Silicon Terrestrial PV Module	IEC 61215 / IS14286 Test Certificates / Reports from IECQ / NABL accredited laboratory for relevant IEC / Equivalent BIS Standard. If IEC certificates are not available for small certificate from IEC/NABL accredited laboratory as per relevant standard for any of the higher wattage regular module shall be furnished. Further, the manufacturer should certify that the supplied module is also manufactured using same material design and process similar to that of certified PV Module
Charge Controller/ MPPT Units & Protections		IEC 62093 Equivalent BIS Standard or as per MNRE Specifications
Storage Batteries	LiFePO4 Lithium battery	UL 1642 / BS EN 60086-4:1996, IEC 60086-4:1996 etc.
Cables	General Test and Measuring Method	IEC 60189
	PVC Insulated Cables for working voltage upto and including 1100 V	IS 694/IS 1554
	UV resistant for outdoor installation	IS/IEC 69947
Junction Boxes/ Enclosures for charge controllers/ LED	General Requirements Lamps Luminary Cycle Life Driver Performance	IEC 62208 IP21 LM-80-08 LM 79-08 LM 70 IEC 62384 Or as per MNRE Specification

Annexure – 2
Letter for Submission of Bid

(To be submitted on Company's letterhead duly signed)

To,

Addl. Chief Executive Officer
REC Power Distribution Company Ltd,
4th Floor, Kribhco Bhavan,
A-10, Sector-1, Noida 201301
Gautam Budh Nagar
Uttar Pradesh (UP)

Sub.: Engagement of Service Agency

Dear Sir,

1. We wish to apply for Bid against RECPDCL's Tender no: RECPDCL/SOLAR/TRIPURA/2018-19/.....
dated:for **“Electrification of un-electrified remote villages of Tripura State through Design, Supply, Transportation, Installation, Commissioning and 5-years Comprehensive Maintenance of 3601 nos. of Solar Home Lighting Standalone systems each of capacity 300Wp at various remote beneficiary households under Saubhagya Scheme”** as per the requirements of RECPDCL.

Further, I hereby certify that-

2. I have read the provisions of all clauses and confirm that notwithstanding anything stated elsewhere to the contrary, the stipulation of all clauses of Tender are acceptable to me and I have not taken any deviation to any clause.
3. I further confirm that any deviation to any clause of Tender found anywhere in my Bid, shall stand unconditionally withdrawn, without any cost implication whatsoever to the RECPDCL.
4. Our bid shall remain valid for period of 180 days from the last date of bid submission.
5. I have enclosed the following mandatory documents along with this letter:
 - (a) GST Registration Certificate copy
 - (b) Income tax (IT) Permanent Account number (PAN) card copy

Date:

Place:

Signature:

Full Name:

Designation:

Address:

Note:

In absence of above declaration/certification, the Bid is liable to be rejected and shall not be taken into account for evaluation.

Annexure – 3
Bidder's General Details

(To be submitted on Company's letterhead duly signed)

Electrification of un-electrified remote villages of Tripura State through Design, Supply, Transportation, Installation, Commissioning and 5-years Comprehensive Maintenance of 3601 nos. of Solar Home Lighting Standalone systems each of capacity 300Wp at various remote beneficiary households under Saubhagya Scheme

GENERAL DETAILS

1. Name of Company : _____

2. Name : _____

3. Regd. Address :

a) Address of Office : _____

b) Contact Person's

i. Name & Design.: _____

ii. Address : _____

iii. Tel No. Landline Mobile: _____

iv. Email ID : _____

4. Type of Firm (Please tick): Private Ltd. / Public Ltd./ any other

5. PAN No. : _____

6. GST Tax Reg. Certificate No.: _____

7. E.M.D. Details : Rs. _____

DD No. _____

Name & Address of Bank: _____

Signature.....

Full Name.....

Designation.....

Address.....

Annexure - 4
BID BANK GUARANTEE (EARNEST MONEY) FORMAT

This deed of Guarantee made this day of 2018 by
..... **(Name of the Bank)** having one its branch at
..... acting through its Manager (hereinafter called the "Bank") which
expression shall wherever the context so requires includes its successors and permitted assigns in favour
of REC Power Distribution Company Ltd., registered under the Companies Act, 1956, having its office at
4th Floor, Kribhco Bhavan, A-10, Sector-1, Noida 201301, Gautam Budh Nagar, Uttar Pradesh (UP)
(hereinafter called "RECPDCL") which expression shall include its successors and assigns.

WHEREAS RECPDCL has invited tender vide their Tender Notice No:
..... Dated to be opened on

AND WHEREAS M/s
..... **(Name of Tenderer)** having its office at
..... (hereinafter called the "Tenderer"), has/have
in response to aforesaid tender notice offered to supply/ do the job "**Electrification of un-electrified
remote villages of Tripura State through Design, Supply, Transportation, Installation, Commissioning
and 5-years Comprehensive Maintenance of 3601 nos. of Solar Home Lighting Standalone systems each
of capacity 300Wp at various remote beneficiary households under Saubhagya Scheme**" as contained
in the tender.

AND WHEREAS the Tender is required to furnish to RECPDCL a Bank Guarantee for a sum of ₹ / -
(Rupees..... only) as Earnest Money for participation in the Tender
aforesaid.

AND WHEREAS, we
..... **(Name of Bank)** have at the request of the tender agree to give RECPDCL this as
hereinafter contained.

NOW, THEREFORE, in consideration of the promises we, the undersigned, hereby covenant that, the
aforesaid Tender shall remain open for acceptance by RECPDCL during the period of validity as mentioned
in the Tender or any extension thereof as RECPDCL and the Tender may subsequently agree and if the
Tender for any reason back out, whether expressly or impliedly, from his said Tender during the period of
its validity or any extension thereof as aforesaid or fail to furnish Bank Guarantee for performance as per
terms of the aforesaid Tender, we hereby undertake to pay RECPDCL, New Delhi on demand without
demur to the extent of ₹ /-(Rupees only).

We further agree as follows:-

1. That RECPDCL may without affecting this guarantee extend the period of validity of the said Tender or
grant other indulgence to or negotiate further with the Tender in regard to the conditions contained in
the said tender or thereby modify these conditions or add thereto any further conditions as may be
mutually agreed to in between RECPDCL and the Tender AND the said Bank shall not be released from its

liability under these presents by an exercise by RECPDCL of its liberty with reference to the matters aforesaid or by reason of time being given to the Tender or any other forbearance, act or omission on the part of the RECPDCL or any indulgence by RECPDCL to the said Tender or any other matter or thing whatsoever.

2. The Bank hereby waive all rights at any time in consistent with the terms of this Guarantee and the obligations of the Bank in terms thereof shall not be otherwise affected or suspended by reason of any dispute or dispute having been raised by the Tender (whether or not pending before any arbitrator, tribunal or court) or any denial of liability by the Tender stopping or preventing or purporting to stop or prevent any payment by the Bank to RECPDCL in terms thereof.

3. We the said Bank, lastly undertake not to revoke this Guarantee during its currency except with the previous consent of RECPDCL in writhing and agree that any charges in the constitution, winding up, dissolution or insolvency of the Tender, the said Bank shall not be discharged from their liability.

NOTWITHSTADING anything contained above, the liability of the Bank in respect of this Guarantee is restricted to the said sum of ₹ / -(Rupees only).and this Guarantee shall remain in force till unless a claim under this guarantee is filed with the bank within 30 (thirty) days from this date or the extended date, as the case may be i.e. up to all rights under Guarantee shall lapse and the Bank be discharged from all liabilities hereunder.

In witness whereof the Bank has subscribed and set its name and seal here under.

Note: - Bid should be valid till last date for which the bid is valid plus 90 days.

Annexure - 5

Technical Bid

(To be submitted through Online)

Electrification of un-electrified remote villages of Tripura State through Design, Supply, Transportation, Installation, Commissioning and 5-years Comprehensive Maintenance of 3601 nos. of Solar Home Lighting Standalone systems each of capacity 300Wp at various remote beneficiary households under Saubhagya Scheme

We confirm the following are the technical specifications of Items that will be used for Installation & Commissioning.

Sl. No.	Item	Specification	Make	Model	Unit	Quantity
1	Solar PV Module 300 Wp					
2	Module Mounting Structure (MMS)					
3	Charge Controller 12V, 10A with MPPT					
4	Battery Lithium Ferro Phosphate 12.8 V, 75 Ah (approx 1000 Wh)					
5	W-LED Luminaire 6 Watt					
6	BLDC (Brushless DC) Fan 20 Watt					
7	Cables					
8	Pole 3 Mtr 40NB Medium (B-class) as per IS:1239 (Part-1)-2004					
9	DC Plug point for load of max 25W					
10	Mobile phone Charging (USB port)					
11	Other Items					

(AUTHORIZED SIGNATORY)

NAME:

SEAL:

Note:

(1) Above mentioned items are major components only. Any items not specifically mentioned above but are required to finish the work will be arranged by the Supplier.

(2) As electrification of various villages of Tripura state is a prestigious project, It is anticipated that bidders will put superior high quality Solar Equipments / components in this Solar Project.

Some of the preferred Make of Solar Equipment / Components are as specified below:

Solar PV Crystalline Modules: Vikram Solar / HHV Solar / Moser Baer / Tata Power Solar / Waaree or any higher quality

Charge Controller: Sukam / Luminous or any higher quality

Cables: Poly Cab / KEI / Centurion Cables or any higher quality

LiFePo4 Battery: any higher quality

LED: Philips / Syska / Havells / Wipro or any higher quality

If bidders found quoted any low quality (Inferior) Solar Equipments / components, RECPDCL reserve its right to ask the bidder to change the Equipment / Components of above mentioned quality/Make. RECPDCL reserves to take final decision at its sole discretion.

Annexure - 6

Financial Bid

(To be submitted strictly through Online mode ONLY)

Electrification of un-electrified remote villages of Tripura State through Design, Supply, Transportation, Installation, Commissioning and 5-years Comprehensive Maintenance of 3601 nos. of Solar Home Lighting Standalone systems each of capacity 300Wp at various remote beneficiary households under Saubhagya Scheme									
NAME OF THE COMPANY									
Sl. No	Description of Item / Material	Quantity of Solar Home lighting systems in Nos.	Unit Price (in Rs.)	Total Price (in Rs.)	GST Percentage	GST Tax Amount (in Rs.)	Total Amount including GST (in Rs.)	Freight & Insurance (including taxes) (in Rs.)	Total Amount (including GST, Freight & Insurance) (in Rs.)
1	2	3	4	5=3*4	6	7=5*6	8=5+7	9	10=8+9
A Supply									
1	Planning, Design, Engineering, Assembly, Manufacturing/Fabrication, Testing & Supply of Solar Power Packs with incidental services as per Tender specification	3601		₹ 0.00		₹ 0.00	₹ 0.00		₹ 0.00
Sub Total (A)				₹ 0.00		₹ 0.00	₹ 0.00	₹ 0.00	₹ 0.00
B Installation, Commissioning & 5-year Maintenance									
B.1	Inland Transportation including Loading, Unloading, Insurance, Transfer to site & Other Costs Incidental for Delivery	3601		₹ 0.00		₹ 0.00	₹ 0.00		₹ 0.00
B.2	Installation, Testing, Commissioning, 5-year maintenance & Documentation of all items/Materials required to complete the Electrification works which interalia include installation of Solar PV Standalone system	3601		₹ 0.00		₹ 0.00	₹ 0.00		₹ 0.00
Sub Total (B)				₹ -		₹ -	₹ -	₹ -	₹ -
Grand Total (A+B)				₹ -		₹ -	₹ -	₹ -	₹ -

Total (in Figures) ₹ -

Note:

1. Price should be quoted which must be inclusive of all costs involved in the project i.e. complete design, engineering, manufacture, testing, supply including transportation, insurance, unloading, Installation, commissioning, warranty, and 5-year comprehensive maintenance of the supplied Solar Home Lighting system including spares including applicable GST tax rates.
2. If it is found that the tax quoted is higher than the applicable tax, in that case applicable taxes will only be paid by RECPDCL and if the tax quoted is lower than the applicable tax, in that case only the quoted taxes will be paid by the RECPDCL. However, bidder will submit bill as per GST compliant provision.
3. It shall be assumed that taxes other than GST, if any, are already included in the ex-works price of materials.
4. All taxes as per Income Tax & GST rules of Government of India and Government of Tripura will be payable by the Bidder.
5. TDS/Labour cess will be deducted from the payment of the Bidder as per the prevalent laws and rules of Government of India and Government of Tripura as the case may be.
6. Price quoted by the bidder shall remain firm & fixed and shall be binding on the Successful Bidder till completion of Comprehensive Maintenance period irrespective of actual cost of execution of the project. No escalation will be granted on any reason whatsoever. The bidder shall not be entitled to claim any additional charges, even though it may be necessary to extend the completion period for any reasons whatsoever.

7. The offer must be kept valid for a period of 180 days from the last date of bid submission. No escalation clause would be accepted. The validity can be further extended with mutual consent.
8. Bids with non-conformity to above will be considered as non-responsive.
9. Contractor shall ensure timely submission of invoice(s) as per rules/regulations of GST with all required supporting document(s) within a period specified in Contracts/LOA to enable RECPDCL to avail input tax credit. Further, returns and details required to be filled under GST laws & rules should be timely filed by supplier with requisite details.
10. Supplier/Contractor would promptly pay GST, as per law, for the supplies made to RECPDCL and would upload returns within the prescribed time to enable RECPDCL, to avail the input tax credit.
11. All necessary adjustment vouchers such as Credit Notes / Debit Notes for any short/excess supplies or revision in prices or for any other reason under the Contract shall be submitted to RECPDCL, as per GST provisions.
12. In the event of default on his part in payment of tax and submission / uploading of monthly returns, RECPDCL is well within its powers to withhold payments, especially the tax portion, until Vendor/Supplier/Contractor corrects the default and / or complies with the requirements of GST and produces satisfactory evidence to that effect.

Annexure - 7

PERT Chart for Electrification of un-electrified remote villages of Tripura State through Design, Supply, Transportation, Installation, Commissioning and 5-years Comprehensive Maintenance of 3601 nos. of Solar Home Lighting Standalone systems each of capacity 300Wp at various remote beneficiary households under Saubhagya Scheme

Sl. No.	Activity	TIME IN DAYS	START DATE	END DATE	CUMULATIVE TIME SCHEDULE (from Zero date of project)
1	Site survey, identification of HHs				
2	Submission of GTP, drawings				
3	GTP, drawings approval				
4	Material ordering				
a	Solar PV Module 300 Wp				
b	Module Mounting Structure (MMS)				
c	Charge Controller 12V, 10A with MPPT				
d	Battery Lithium Ferro Phosphate 12.8 V, 75 Ah (approx 1000 Wh)				
e	W-LED Luminaire 6 Watt				
f	BLDC (Brushless DC) Fan 20 Watt				
g	Cables				
h	Pole 3 Mtr 40NB Medium (B-class) as per IS:1239 (Part-1)-2004				
i	DC Plug point for load of max 25W				
j	Mobile phone Charging (USB port)				
k	Other Items				
5	PDI				
a	Solar PV Module 300 Wp				
b	Module Mounting Structure (MMS)				
c	Charge Controller 12V, 10A with MPPT				
d	Battery Lithium Ferro Phosphate 12.8 V, 75 Ah (approx 1000 Wh)				
e	W-LED Luminaire 6 Watt				
f	BLDC (Brushless DC) Fan 20 Watt				
g	Cables				
h	Pole 3 Mtr 40NB Medium (B-class) as per IS:1239 (Part-1)-2004				
i	DC Plug point for load of max 25W				
j	Mobile phone Charging (USB port)				
k	Other Items				
4	Material despatch				

a	Solar PV Module 300 Wp				
b	Module Mounting Structure (MMS)				
c	Charge Controller 12V, 10A with MPPT				
d	Battery Lithium Ferro Phosphate 12.8 V, 75 Ah (approx 1000 Wh)				
e	W-LED Luminaire 6 Watt				
f	BLDC (Brushless DC) Fan 20 Watt				
g	Cables				
h	Pole 3 Mtr 40NB Medium (B-class) as per IS:1239 (Part-1)-2004				
i	DC Plug point for load of max 25W				
j	Mobile phone Charging (USB port)				
k	Other Items				
7	Material receipt at stores				
a	Solar PV Module 300 Wp				
b	Module Mounting Structure (MMS)				
c	Charge Controller 12V, 10A with MPPT				
d	Battery Lithium Ferro Phosphate 12.8 V, 75 Ah (approx 1000 Wh)				
e	W-LED Luminaire 6 Watt				
f	BLDC (Brushless DC) Fan 20 Watt				
g	Cables				
h	Pole 3 Mtr 40NB Medium (B-class) as per IS:1239 (Part-1)-2004				
i	DC Plug point for load of max 25W				
j	Mobile phone Charging (USB port)				
k	Other Items				
8	Installation				
a	Civil works				
b	Solar Standalone systems				
9	Commissioning & Handover of system				

Annexure - 8

ACCEPTANCE FORM FOR PARTICIPATION IN REVERSE AUCTION EVENT

(To be submitted on Company's letter head)

In a bid to make our entire procurement process more fair and transparent, RECPDCL intends to use the reverse auctions as an integral part of the entire tendering process. All the bidders who are found as technically qualified based on the tender requirements shall be eligible to participate in the reverse auction event.

The following terms and conditions are accepted by the bidder on participation in the bid event:

1. RECPDCL shall provide the user id and password to the authorized representative of the bidder. *(Authorization Letter in lieu of the same shall be submitted along with the signed and stamped Acceptance Form).*
2. RECPDCL decision to award the work would be final and binding on the supplier.
3. The bidder agrees to non-disclosure of trade information regarding the purchase, identity of RECPDCL, bid process, bid technology, bid documentation and bid details to any other party.
4. The bidder is advised to fully make aware themselves of auto bid process and ensure their participation in the event of reverse auction and failing to which RECPDCL will not be liable in any way.
5. In case of bidding through Internet medium, bidders are further advised to ensure availability of the infrastructure as required at their end to participate in the auction event. Inability to bid due to telephone line glitch, internet response issues, software or hardware hangs, power failure or any other reason shall not be the responsibility of RECPDCL.
6. In case of intranet medium, RECPDCL shall provide the infrastructure to bidders. Further, RECPDCL has sole discretion to extend or restart the auction event in case of any glitches in infrastructure observed which has restricted the bidders to submit the bids to ensure fair & transparent competitive bidding. In case an auction event is restarted, the best bid as already available in the system shall become the basis for determining start price of the new auction.
7. In case the bidder fails to participate in the auction event due any reason whatsoever, it shall be presumed that the bidder has no further discounts to offer and the initial bid as submitted by the bidder as a part of the tender shall be considered as the bidder's final no regret offer. Any offline price bids received from a bidder in lieu of non-participation in the auction event shall be out rightly rejected by RECPDCL.
8. The bidder shall be prepared with competitive price quotes on the day of the bidding event.
9. The prices as quoted by the bidder during the auction event shall be inclusive of all the applicable taxes, duties and levies and shall be FOR at site.
10. The prices submitted by a bidder during the auction event shall be binding on the bidder.
11. No requests for time extension of the auction event shall be considered by RECPDCL.
12. The original price bids of the bidders shall be reduced on pro-rata basis against each line item based on the final all inclusive prices offered during conclusion of the auction event for arriving at Contract amount.

(Signature & Seal of the Bidder)

Annexure-9

UNDERTAKING TOWARDS NOT BEING BLACK-LISTED

(For Individual Company - to be submitted on Company's letterhead duly signed)

I, _____ Authorized Signatory of M/s _____ hereby give undertaking that we, as a company are not black-listed by any Central/ State Government/ Semi-Government Organization/ Public Sector Undertaking/ Private Institution in India.

Further, if information furnished above stands false at any stage of tender, we shall be completely liable for actions taken by RECPDCL as per terms & conditions of the tender including disqualification from tender/contract with RECPDCL and exclusion from future contracts/assignments.

(Signature of Authorized Signatory)

Name*:

Designation*:

Seal:

* Please provide the name and designation of each signatory.

UNDERTAKING TOWARDS NOT BEING BLACK-LISTED

(For Consortium/Joint Venture Firm)

We, a Consortium/ Joint Venture Firm of M/s _____ and M/s _____ hereby give undertaking that neither this Consortium/ Joint Venture Firm nor each of the member companies of this Consortium/ Joint Venture Firm are black-listed by any Central/ State Government/ Semi-Government Organization/ Public Sector Undertaking/ Private Institution in India.

Further, if information furnished above stands false at any stage of tender, we shall be completely liable for actions taken by RECPDCL as per terms & conditions of the tender including disqualification from tender/contract with RECPDCL and exclusion from future contracts/assignments.

(Authorized Signatory of Lead Member)

(Authorized Signatory of Consortium/JV Partner)

Name*:

Name*:

Designation*:

Designation*:

Seal & Sign:

Seal & Sign:

* Please provide the name and designation of each signatory.

Annexure-10

POWER OF ATTORNEY

(Letter of Authorization)

(Single entity & JV/Consortium bidders have to submit duly notarized. In case of Consortium/Joint Venture Firm, to be submitted by the 'Lead Member')

Know all men by these presents, we M/s _____ (Lead Member) with Head Office at _____, do hereby constitute, appoint and authorize _____ (Name) son/daughter/wife of(Name), resident of _____ presently employed with us and holding the position of _____ as our attorney, to do in our name and on behalf, all such acts, deeds and things necessary in connection with or incidental to REC Power Distribution Company Limited's (RECPDCL) Tender No. RECPDCL/SOLAR/TRIPURA/2018-19/..... dated: for **Electrification of un-electrified remote villages of Tripura State through Design, Supply, Transportation, Installation, Commissioning and 5-years Comprehensive Maintenance of 3601 nos. of Solar Home Lighting Standalone systems each of capacity 300Wp at various remote beneficiary households under Saubhgya Scheme.**

, including signing and submission of all documents and providing information/ responses to RECPDCL, New Delhi representing us in all matters before, and generally dealing with RECPDCL in all matters in connection with our Bid.

We hereby agree to ratify all acts, deeds and things lawfully done by our said attorney pursuant to this Power of Attorney and that all acts, deeds and things done by our aforesaid attorney shall an shall always be deemed to have been done by us.

(Authorized Signatory of participating agency/Lead Member)

Name:

Designation:

Seal & Sign:

I Accept

(Signature of Attorney)

Name:

Designation:

Seal & Sign:

NOTE:

Annexure-11

AGREEMENT FOR CONSORTIUM/JOINT VENTURE FIRM

(For Consortium/Joint Venture Firm)

(On non-judicial stamp paper of appropriate value to be purchased in the name of executants companies or as required by the jurisdiction in which executed)

This consortium/Joint Venture agreement entered into this ____ day of _____
2018__ at _____

Between _____ (hereinafter referred as “ _____”) and having office at _____, India
Party of the First Part

And _____ (hereinafter referred as” _____”) and having office at
_____, India Party of the Second Part

Whereas RECPDCL has invited tender vide no: RECPDCL/SOLAR/TRIPURA/2018-19/..... dated
..... for selection of agencies for **Electrification of un-electrified remote villages of Tripura State through Design, Supply, Transportation, Installation, Commissioning and 5-years Comprehensive Maintenance of 3601 nos. of Solar Home Lighting Standalone systems each of capacity 300Wp at various remote beneficiary households under Saubhagya Scheme.**

And whereas a combination of entities who, have executed a binding agreement in the prescribed format, to enter into a Consortium/Joint Venture, and meeting the requirements stipulated in the tender document may submit a bid signed by the Lead Member, which shall legally bind all the Members of the Consortium/Joint Venture who will be jointly and severally liable for the performance and all obligations there under to the RECPDCL for execution of the project/ Work/ Assignment etc. The Consortium/Joint Venture members shall also be liable jointly and severally for the loss, damages caused to the RECPDCL during the course of execution of any awarded contract or due to non-execution of the contract or part thereof.

And whereas the Parties have had discussions for formation of a Consortium/Joint Venture for the said tender and have reached an understanding on the following points with respect to the Parties’ rights and obligations towards each other and their working relationship.

It is hereby as mutual understanding of the parties agreed and declared as follows:

1. M/s. shall act as Lead Member for and on behalf of Consortium/Joint Venture Members. The said Consortium/Joint Venture Members further declare and confirm that we shall jointly and severally be liable and shall be fully responsible to the RECPDCL for execution of the project/ Work/ Assignment etc. The Consortium/Joint Venture members shall also be liable jointly and severally for the loss, damages caused to the RECPDCL during the course of execution of any awarded contract or due to non-execution of the contract or part thereof.

2. The Lead Member is hereby authorized to:

- (i) Sign and submit the bid on behalf of Consortium/Joint Venture members pursuant to the bid initiated
- (ii) In the event, the Consortium/Joint Venture Firm being empanelled with RECPDCL, to enter into any awarded Contract with RECPDCL, including negotiation of the terms thereof.
- (iii) To receive all payments on behalf of the Consortium/Joint Venture Firm from RECPDCL.

3. In case of any breach of the stipulations of the tender/bid Document by the Lead Member, Consortium/Joint Venture Partner along with the Lead Member do hereby agree to be fully liable and responsible to carry out all the obligations and responsibilities under the tender and any awarded Contract later on.

4. It is further agreed by the Members that the sharing of responsibilities and obligations shall not in any way be a limitation of joint and several responsibilities and liabilities of the Members to RECPDCL.

5. It is clearly understood that the lead member shall ensure performance under the agreements and if Consortium/Joint Venture Members fail to perform its /their respective obligations under the agreement(s), the same shall be deemed to be a default by all the Consortium/ Joint Venture Members.

6. This Consortium/Joint Venture agreement shall be construed and interpreted in accordance with the laws of India and the courts in Delhi shall have the exclusive jurisdiction in all matters arising there under.

In witness whereof, the Members to the Consortium/Joint Venture agreement have through their authorized representatives executed these presents and affixed seal of their companies, on the day, month and year first mentioned above.

(Party of the first part)

(Party of the second part)

Name*:

Name*:

Designation*:

Designation*:

Seal & Sign:

Seal & Sign:

Witness:

1.

2.

* Please provide the name and designation of each signatory.

Annexure – 12
INTEGRITY PACT

(to be submitted 2 copies on Rs 100/- non judicial stamp paper)

INTEGRITY PACT

Between

REC Power Distribution Company Limited
having its Registered Office at Core-4 Scope complex

hereinafter referred to as

"RECPDCL",

and

[Insert the name of the Bidder]

having its Registered Office at _____
(Insert full Address)

Hereinafter referred to as

"The Bidder"

Preamble

RECPDCL intends to engage, under laid-down organisational procedures, agencies for **Electrification of un-electrified remote villages of Tripura State through Design, Supply, Transportation, Installation, Commissioning and 5-years Comprehensive Maintenance of 3601 nos. of Solar Home Lighting Standalone systems each of capacity 300Wp at various remote beneficiary households under Saubhagya Scheme.**

(Signature) _____
(For & On behalf of RECPDCL)

(Signature) _____
(For & On behalf of Bidder)

Supply of Standalone Off-Grid Solar Home Lighting relevant laws and regulations, and the principles of economical use of resources, and of fairness and transparency in its relations with its Bidders.

In order to achieve these goals, RECPDCL and the above named Bidder enter into this agreement called '**Integrity Pact**' which will form a part of the bid.

It is hereby agreed by and between the parties as under:

Section I - Commitments of RECPDCL

(1) RECPDCL commits itself to take all measures necessary to prevent corruption and to observe the following principles :

a) No employee of RECPDCL, personally or through family members, will in connection with the tender, or the execution of the contract, demand, take a promise for or accept, for him/herself or third person, any material or other benefit which he/she is not legally entitled to.

b) RECPDCL will, during the tender process treat all Bidder(s) with equity and fairness. RECPDCL will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.

(c) RECPDCL will exclude from evaluation of Bids its such employee(s) who has any personnel interest in the Companies/Agencies participating in the Bidding/Tendering process

(2) If Chairman RECPDCL obtains information on the conduct of any Employee of RECPDCL which is a criminal offence under the relevant Anti-Corruption Laws of India, or if there be a substantive suspicion in this regard, he will inform its Chief Vigilance Officer and in addition can initiate disciplinary actions under its Rules.

Section II - Commitments of the Bidder

(1) The Bidder commits himself to take all measures necessary to prevent corruption. He Commits himself to observe the following principles

(Signature) _____
(For & On behalf of RECPDCL)

(Signature) _____
(For & On behalf of Bidder)

during his participation in the tender process and during the contract execution:

a) The Bidder will not, directly or through any other person or firm, offer, promise or give to RECPDCL, or to any of RECPDCL's employees involved in the tender process or the execution of the contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange an advantage during the tender process or the execution of the contract.

b) The Bidder will not enter into any illegal agreement or understanding, whether formal or informal with other Bidders. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or actions to restrict competitiveness or to introduce cartelization in the bidding process.

- c) The Bidder will not commit any criminal offence under the relevant Anti-corruption Laws of India; further, the Bidder will not use for illegitimate purposes or for purposes of restrictive competition or personal gain, or pass on to others, any information provided by RECPDCL as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
 - d) The Bidder of foreign origin shall disclose the name and address of the Agents/representatives in India, if any, involved directly or indirectly in the Bidding. Similarly, the Bidder of Indian Nationality shall furnish the name and address of the foreign principals, if any, involved directly or indirectly in the Bidding.
 - e) The Bidder will, when presenting his bid, disclose any and all payments he has made, or committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract and/or with the execution of the contract.
 - f) The Bidder will not misrepresent facts or furnish false/forged documents/ information in order to influence the bidding process or the execution of the contract to the detriment of RECPDCL.
- (2) The Bidder will not instigate third persons to commit offences outlined above or be an accessory to such offences.

(Signature) _____
 (For & On behalf of RECPDCL)

(Signature) _____
 (For & On behalf of Bidder)

Section III- Disqualification from tender process and exclusion from future Contracts

- (1) If the Bidder, before contract award, has committed a serious transgression through a violation of Section II or in any other form such as to put his reliability or credibility as Bidder into question, RECPDCL may disqualify the Bidder from the tender process or terminate the contract, if already signed, for such reason.
- (2) If the Bidder has committed a serious transgression through a violation of Section II such as to put his reliability or credibility into question, RECPDCL may after following due procedures also exclude the Bidder from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of the transgression. The severity will be determined by the circumstances of the case, in particular the number of transgressions, the position of the transgressors within the company hierarchy of the Bidder and the amount of the damage. The exclusion will be imposed for a minimum of 12 months and maximum of 3 years.
- (3) If the Bidder can prove that he has restored/recouped the damage caused by him and has installed a suitable corruption prevention system, RECPDCL may revoke the exclusion prematurely.

Section IV - Liability for violation of Integrity Pact

- (1) If RECPDCL has disqualified the Bidder from the tender process prior to the award under Section III, RECPDCL may forfeit the Bid Guarantee under the Bid.
- (2) If RECPDCL has terminated the contract under Section III, RECPDCL may forfeit the Contract Performance Guarantee of this contract besides resorting to other remedies under the contract.

Section V- Previous Transgression

- (1) The Bidder shall declare in his Bid that no previous transgressions occurred in the last 3 years with any other Public Sector Undertaking or Government Department that could justify his exclusion from the tender process.

(Signature) _____
(For & On behalf of RECPDCL)

(Signature) _____
(For & On behalf of Bidder)

- (2) If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

Section VI - Equal treatment to all Bidders

- (1) RECPDCL will enter into agreements with identical conditions as this one with all Bidders.
- (2) RECPDCL will disqualify from the tender process any bidder who does not sign this Pact or violate its provisions.

Section VII - Punitive Action against violating Bidders / Contractors

If RECPDCL obtains knowledge of conduct of a Bidder or a Contractor or his subcontractor or of an employee or a representative or an associate of a Bidder or Contractor or his Subcontractor which constitutes corruption, or if RECPDCL has substantive suspicion in this regard, RECPDCL will inform the Chief Vigilance Officer (CVO)/Competent authority.

Section VIII - Pact Duration

This Pact begins when both parties have legally signed it. It expires for the Contractor after the closure of the contract and for all other Bidder's six month after the contract has been awarded.

Section IX - Other Provisions

- (1) This agreement is subject to Indian Law. Place of performance and jurisdiction is the establishment of RECPDCL. The Arbitration clause provided in the main tender document / contract shall not be applicable for any issue / dispute arising under Integrity Pact.
- (2) Changes and supplements as well as termination notices need to be made in writing.
- (3) Views expressed or suggestions/submissions made by the parties and the recommendations of the competent authority/CVO in respect of the violation of this agreement, shall not be relied on or

introduced as evidence in the arbitral or judicial proceedings (arising out of the arbitral proceedings) by the parties in connection with the disputes/differences arising out of the subject contract.

- (4) Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.

(Signature) _____
(For & On behalf of RECPDCL)

(Signature) _____
(For & On behalf of Bidder)

(Office Seal)

(Office Seal)

Name: _____

Name: _____

Designation: _____

Designation: _____

Witness 1 : _____ Witness 1 : _____

(Name & Address) _____ (Name & Address) _____

Witness 2 : _____ Witness 2 : _____

(Name & Address) _____ (Name & Address) _____

Annexure - 13
ADVANCE BANK GUARANTEE (ABG) FORMAT

M/s REC Power Distribution Company Ltd.,
Core 4, Scope Complex, Lodhi Road,
New Delhi – 110003 (INDIA)

OUR LETTER OF GUARANTEE NO.:

In consideration of REC Power Distribution Company Ltd., having its office at
..... (hereinafter referred to as “RECPDCL” which
expression shall unless repugnant to the content or meaning thereof include all its successors,
administrators and executors) and having issued NIT/Work Order No.dated
..... with/on M/s
(hereinafter referred to as “The Agency” which expression unless repugnant to the content or
meaning thereof, shall include all the successors, administrators, and executors).

WHEREAS the Agency having unequivocally accepted to perform the services as per terms and conditions
given in the NIT/Work Order No. dated and RECPDCL having
agreed that the Agency shall furnish to RECPDCL an Advance Bank Guarantee for the advance taken, to
the extent of 10% (ten percent) (or the percentage as per the individual case) of the value of the
NIT/Work Order i.e. for

We, (“The Bank”) which shall include OUR successors,
administrators and executors herewith establish an irrevocable Letter of Guarantee No.
.....in your favour for account of.....(The Agency) in
cover of performance guarantee in accordance with the terms and conditions of the NIT/Work Order.

Hereby, we undertake to pay up to but not exceeding (say
..... only) upon receipt by us of your first written demand accompanied
by your declaration stating that the amount claimed is due by reason of the Agency having failed to
perform the NIT/Work Order and despite any contestation on the part of above named agency.

This letter of Guarantee will expire on including 90 day of claim period and any
claims made hereunder must be received by us on or before expiry date after which date this Letter of
Guarantee will become of no effect whatsoever whether returned to us or not.

Authorized Signatory
Chief Manager/ Manager
Seal of Bank

Note: BG should be valid till the date of final commissioning plus 3 months claim period.

Annexure - 14
PERFORMANCE BANK GUARANTEE (PBG) FORMAT

M/s REC Power Distribution Company Ltd.,
Core 4, Scope Complex, Lodhi Road,
New Delhi – 110003 (INDIA)

OUR LETTER OF GUARANTEE NO.:

In consideration of REC Power Distribution Company Ltd., having its office at
..... (hereinafter referred to as "RECPDCL" which
expression shall unless repugnant to the content or meaning thereof include all its successors,
administrators and executors) and having issued NIT/Work Order No.dated
..... with/on M/s
(hereinafter referred to as "The Agency" which expression unless repugnant to the content or
meaning thereof, shall include all the successors, administrators, and executors).

WHEREAS the Agency having unequivocally accepted to perform the services as per terms and conditions
given in the NIT/Work Order No. dated and RECPDCL having
agreed that the Agency shall furnish to RECPDCL a Performance Guarantee for the faithful performance
of the entire contract, to the extent of% (..... percent) (or the percentage as per the individual
case) of the value of the NIT/Work Order i.e. for
.....

We,("The Bank") which shall include OUR successors,
administrators and executors herewith establish an irrevocable Letter of Guarantee No.
.....in your favour for account of.....(The Agency) in
cover of performance guarantee in accordance with the terms and conditions of the NIT/Work Order.

Hereby, we undertake to pay up to but not exceeding (say
..... only) upon receipt by us of your first written demand accompanied
by your declaration stating that the amount claimed is due by reason of the Agency having failed to
perform the NIT/Work Order and despite any contestation on the part of above named agency.

This letter of Guarantee will expire on including 90 day of claim period and any
claims made hereunder must be received by us on or before expiry date after which date this Letter of
Guarantee will become of no effect whatsoever whether returned to us or not.

Authorized Signatory
Chief Manager/ Manager
Seal of Bank

Note: BG should be valid till completion of 5 years 3 months from the date of issue of LOI/LOA plus 3 months claim period.

Annexure-15

Details of Number of un-electrified households to be covered under SAUBHAGYA scheme - Tripura State (District/Village/Habitation wise)

Sl. No.	District Name	Village Name	Census Code	Habitation Name	No. of households to be electrified
1	Dhalai	Manu Chhailengta	272532	Nayan singh roaja para	52
				Madhu kr roaja para	55
				Purna kr. Roaja para	49
				Purnada r/p	90
2		Central Catchment R.F.	272536	Khaichangsing r/para	49
				Malay dhan ch. Para	47
				Rang thangach para	51
				Sailendra ch.para	62
				Tablajoy ch. Para	63
				Sachindra roaja para	53
				Tarana kr. Roaja para	86
				Budhijoy c/para	55
3		Jagabandhupara	272537	Christian Para	12
	Debanadi Para			27	
	Saikaral Para			18	
4	Bhagirath Para	272540	Dhanuram Para	20	
			Girachandra Para	21	
			Bhagirath Para-2 (New)	37	
5	Dalapatipara	272543	Madhuhari Para	68	
Nabadip Para			76		
6	Dhalajhari	272549	Dhansaiha Para	47	
7	Ratan Nagar	272558	Aswini Roaja Para	113	
			Majhimani Para	76	
			Sarada Roaja Para	106	
			Sura Mohan Para	117	
			Thangmani Para	81	
8	Boalkhali	272569	Brindaban Para	28	
9	Karmapara	272506	Paltanjoy Para	31	
			Safirai Para	17	
10	Baluchhara	272510	Champarai Para	70	
11	Tetaiya	272512	Brikhada-2 (Sambhuram Para)	67	
			Brikhada-5 (Beja Kr. Para)	13	
12	Kulai R.F.	272504	Mali Kaijai Para	29	
13	Kulai R.F. (Extn.)	272505	Abhiram Para	57	
			Karamjoy Para	12	
			Purnajoy Para	49	
			Pusparam Para	74	

				Upendra Para	29
14		Purba Karamchhara	272473	Laxmanjoy Para	53
15		Longtarai R.F	272482	Lalmohan Para	47
				Moni Bhadra Para	86
16		Lalchhara	272486	Harimohan Para	112
				Hemanta Dewan Para	44
				Icha Cherra	21
				Pushe Ham Para	46
				Pushpa Ram Para	47
17		Manu Chhailengta R.F. (Part)	272487	Dhanyaram Para	58
Sub-Total					2566
18		Atharamura R.F.	271976	Bahuram Para, Shibcharan, Tripura Basti (Chowratan)	15
				Chandran Moni Para	12
				Rangia Para	26
				Shib Charan Para	30
19	Khowai	Nunachhara R.F	271980	Gada MOUNG Karai Para	23
				Kali Charan Para	47
				Ujan Daga Ram Para	15
				Datta Malsum Para	31
				Ham Pailia Para	25
				Nabajoy Reang Para	30
				Ganga Bahadur Para	16
				Karna Ram Para	46
Sub-Total					316
20		Sunitipur	272722	S.K Tlangshng	124
21	North Tripura	Central Catchment R.F	272728	Bijoy Kr. Para	58
				Dalamoni Para	39
				Nutan Para	94
				Sarpajoy Para	43
				Ujan Gachiram	44
				Bugurai Para (New)	66
				Bleha Para (New)	17
22		Simblong	272740	Bamboo Bari	119
				Sailut-II (New)	40
Sub-Total					644
23	Gomati	Palkuchhara	272182	Panlunga Para	27
24		Jambukchhara	272184	Harungkami Para	48
Sub-Total					75
Grand Total					3601

Note: This is a tentative list only. The quantities may vary as per survey / site requirements.