

NIT No: RECPDCL/LT/J&K/SOLAR/2017-18/2572

Date: 16.10.2017

Notice Inviting Tender (Limited)

(Invited through e-Tendering mode only)
(Limited to Agencies as mentioned in Annexure-12)

for

Electrification of Un-electrified Villages in Jammu & Kashmir State by installing Solar Stand alone systems including 5-years Comprehensive Maintenance

Package	Name of Package	No. of Villages
3	Kupwara-I	5

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
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	16.10.2017
Last date of receiving queries with respect to bid documents	18.10.2017 at 11:00 Hours
Pre Bid Meeting	18.10.2017 at 11:30 Hours
Last date of submission of Bid	23.10.2017 at 15:00 Hours
Date of Opening of Financial Bid	23.10.2017 at 15:30 Hours

Note: 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-
(SALIL KUMAR)
Addl. C.E.O.

[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 Villages in Jammu & Kashmir State by installing Solar Stand alone systems.

Important Information

Sl. No.	Event	Date / Information
1	Date of Release of NIT / Tender	16.10.2017
2	Last date of receiving queries with respect to bid documents	18.10.2017 at 11:00 Hours
3	Pre Bid Meeting	18.10.2017 at 11:30 Hours
4	Last date of submission of Bid	23.10.2017 at 15:00 Hours
5	Date of Opening of Financial Bid	23.10.2017 at 15:30 Hours
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 has to be deposited in original in the form of Demand Draft (DD) in favour of REC Power Distribution Company Ltd payable at New Delhi/Noida (or) in the form of Bank Guarantee (bid bank guarantee) from a scheduled bank as per format of Annexure - 4 . EMD amount was shown at clause no 2.1 EMD table under Section 7, Commercial terms, Conditions, and Other Provisions.
8	Address for communication	REC Power Distribution Company Limited (RECPDCL), 4th Floor, Kribhco Bhavan, A-10, Sector-1, Noida 201301 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. Salil Kumar, Addl. CEO, REC Power Distribution Company Limited (RECPDCL), Phone: (0120) 4383783; Fax: 0120-4383768, Email: co.delhi@recpdcl.in

Section -2

PREFACE, INTENT, and PROJECT SITE DETAILS

REC Power Distribution Company Limited (RECPDCL) is an Empanelled Government Agency under Ministry of New & Renewable Energy (MNRE), Govt. of India. RECPDCL is an ISO 9001:2008 (Quality Management System), ISO 14001:2004 (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.

Jammu & Kashmir administration engaged RECPDCL as Project Management Agency for the implementation Electrification of Un-electrified Villages in Jammu & Kashmir State by installing Solar Stand alone systems. Technical specifications for Standalone Solar systems are mentioned at **Annexure-1**.

RECPDCL is inviting bids from Agencies, who are MNRE Channel Partners (Off-Grid) with rating 1A to 1C, and 2A to 2C & successful empanelled agencies who had submitted security deposit against RECPDCL's EOI no: RECPDCL/Tech/EOI/Empanelment/2015-16/3130 dated: 02.02.2016, & RECPDCL empanelled agencies for Power Distribution Business mentioned in "**Annexure - 12**".

Un-electrified villages in Package 3						
Sl No.	Region	Name of District	Block	Total No. of Villages	Total No. of Rural HHs	Tentative Package
2	Kashmir	Kupwara	<u>Kralpora</u>	<u>5</u>	<u>1041</u>	<u>Package-3 (Kupwara-I)</u>
Total				5	1041	

Note: Detailed list of details of households Region/District/Block/Village/Census code/Habitation wise is shown in Annexure - 13. This is a tentative list only. The quantities may vary.

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:

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

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

1. **Letter for Submission of Bid** along with GST Registration certificate, Income Tax (IT) Permanent Account Number (PAN) card copy has to be submitted on Company's letterhead duly signed as per format of **Annexure - 2**. 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 in the form of Demand Draft (DD) in favour of 'REC Power Distribution Company Ltd' payable at New Delhi / Noida (or) in the form of Bank Guarantee (bid bank guarantee) from a scheduled bank as per format **Annexure - 4**. EMD amount was shown at clause no 2.1 under Section 7, Commercial terms & Conditions. **Scanned copy of DD or BG to be uploaded and Original of DD or 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. Bidders have to submit **MNRE channel Partner certificate or RECPDCL Empanelment letter** as asked in this section and documents as asked at Annexure-13 (MNRE Channel Partners with rating 1A to 1C, and 2A to 2C).
5. **Technical Bid** has to be submitted **through online** as per format **Annexure - 5** by specifying Specification, Make, Model, unit, quantity of all bill of items that will be used in the project.
6. **Financial Bid** has to be submitted **through online mode package wise** as per formats specified at **Annexure-6**.
(Note: Bidder has to submit Financial bid package wise. Bidder who wants to participate at different packages, he has to submit different Package wise Financial bids. Accordingly evaluation will be done package wise).
6. **Acceptance form for participation in Reverse Auction Event** on Company's letterhead duly signed as per format **Annexure - 7**.
7. **Undertaking towards not being black-listed** on company's letterhead duly signed as per format of **Annexure-8**.
8. **Integrity Pact** has to be submitted duly signed and stamped as per format of **Annexure-9 (two copies on Rs. 100/- non-judicial stamp paper)**. Scanned copies of integrity pact has to be uploaded and ***original has to be submitted before last date & time of submission of bid.***
9. **Complete set of this tender document** with duly signed on each page to be submitted as token of acceptance of its contents.

Note:

All the above documents should also be submitted in hard copy in order, duly numbered, legible, signed by authorized signatory, stamped and kept in an envelope with subject mentioning "Bid Documents for Electrification of Un-electrified Villages in Jammu & Kashmir State by installing Solar Stand alone systems" on the top of envelope and addressing to

**Addl. Chief Executive Officer,
REC Power Distribution Company Ltd.,
4th Floor, Kribhco Bhavan,
A-10, Sector-1, Noida 201301
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 Villages in Jammu & Kashmir State by installing Solar Stand alone systems.

Design, engineering, manufacture, testing, supply including transportation up to designated Store Location and storage and delivery of Solar Home Power Packs (with PV panel, MPPT & charge controller cum inverter module, battery and accessories), installation including 05 (five) years' comprehensive Maintenance and including supply of spares as per the following specifications, terms and conditions to electrify Package-3 (Kupwara-I) consisting of 5 villages out of total 54 of off-grid villages with Solar Power Packs, 300 Wp each for every un-electrified household in these villages (the number of villages and households/public places may vary at the time of execution). No of Households/solar packs were shown package wise at **Annexure-13**.

A. Solar Home Lighting System

A Solar Home System (SHS) provides a comfortable level of illumination in one or more rooms of a house. The SHS consists of a PV module, control electronics, battery, inter-connecting cables and an inverter.

The System consists of:

- a. SPV Modules: 300Wp
- b. SPV Module Mounting Structure 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, 3" dia. (40NB). The frame structure should have provision so that the module can be oriented at the suitable tilt angle.
- c. The battery should be 24V, 75Ah @ C/10, Tubular sealed maintenance free GEL type. Charging-Discharging Cycles in the Life Span as detailed below:
 - 80% DOD : 1500
 - 50% DOD : 3000
 - 20% DOD : 4000
- d. Battery Stand: A vented plastic/ wooden/ metallic box with acid proof corrosion resistant paint. A vented, acid proof and corrosion resistant metallic box or wooden box or plastic box made of Poly propylene - Copolymer (PP-CP) with a locking arrangement for should be provided for housing the battery.
- e. Solar Charge Controller:

24V, 10A with MPPT to appropriately charge and protect the battery against overcharge and deep discharge suitable for charging above battery bank. Also, two indicators, green-charging under progress and it should stop glowing when the battery is fully charged & Red-Load Cut Off.

The Charge Controller/ inverter shall be Pulse Width Modulation (PWM) type with Maximum Power Point Tracker (MPPT). It should be equipped with data logging facility such that the data can be downloaded to an external device using USB Port and Bluetooth. The data required to be captured are Daily Generation, Daily Utilization / Consumption and Daily Storage. The supplier to provide the battery and the charger cum controller module in a suitable shock proof metallic or wooden box.

The charge controller should have provision of single phase ac supply input point (phase, neutral and earth) input provision to charge batteries. The system should be ready to be interfaced and communicate with an AC-DC converter as and when the grid is available. The beneficiary may use this provision whenever grid supply reaches to the village as a standby charging facility to charge system batteries.

- f. Inverter: Solar Inverter with 24V, 300VA, Pure Sine wave (THD<5%), Output Single phase 230 V AC sine wave.
- g. Load: Following load is to be considered for designing of the system in each house, however these items are not part of supply:
 - 5 Nos. of White Light Emitting Diode (W-LED) Luminaire (6.0 Watts each)
 - 24V-20W BLDC pedestal fans (1 No. for each household) and provided with BLDC motor. Detailed specification of MNRE should be adhered upon.
 - 1No. Laptop or Mobile Charger at a time (AC)
 - DC USB port (24V, 1A) for operating radio / mobile charging.
 - Outlet Socket for operating BLDC fan (24V,20Watt).
- h. Cables and Wiring: ISI marked system wiring should be provided as per following:
 - Panel to Inverter/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.
 - Inverter/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 conduits pipes. 25 w power plug, USB port shall be installed on 40 mm dia round switch board properly installed on wall structure. At all corners wiring should be dressed properly using round corners etc.

In addition to the description of Wiring mentioned in Amendment -I, 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

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 will submit tentative delivery schedule of material along with Technical Bid in compliance to Clause No. B (1) in this section and the same requires to be approved by RECPDCL for qualifying in the Bid. The Bidder will insure materials from supply till Comprehensive maintenance.

Detailed list of details of households Region/District/Block/Village/Census code/Habitation wise is shown in Annexure - 13. This is a tentative list only. The quantities may vary while installation.

3. The Bidder has also to provide OEM's Warranty for SPV module for 25 years. PV modules used in Solar Home Lighting & Street 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.
4. The Warranty Card to be supplied with the system must contain the details of the system.
5. The bidder should ensure at least one Service Center/Store in Jammu & Kashmir which shall have minimum 2% stock of major items like SPV module, battery, inverter, charge controller and LED Lamp for Street Home Light ready to cater any requirements/replacements during Comprehensive maintenance period or during execution at site. This stock will always be maintained during entire Comprehensive maintenance period of 5 years after commissioning and shall be verified at any time at sole discretion of RECPDCL.
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 should be completed by 15th November, 2017 in all said 5 villages.**
- II. The Bidder will submit delivery schedule of materials, vendor details along with PERT chart in compliance with point 1 within 7 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 and storage thereafter.
- 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**. Any supplies which have not been specifically mentioned in this contract but which are necessary for the design, engineering, manufacture, supply, installation & performance or completeness of the project shall be provided by the bidder without any extra cost and within the time schedule for efficient and smooth operation and maintenance of the system.

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, Inverter, Charge Controller, LED Lamp for Street Light 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 Performa 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 the Goods' 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
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. RECPDCL reserves the right to accept or reject any or all Bid requests without assigning any reason.
3. RECPDCL reserves the right to waive off any shortfalls; accept the whole, accept part of or reject any or all responses to this tender.
4. RECPDCL reserves the right to cancel the bids at any stage and call for fresh tender.
5. RECPDCL reserves the right to modify, expand, restrict, scrap, re-float the tender without assigning any reason for the same.
6. 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.
7. 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.
8. RECPDCL reserves the right to conduct reverse auction.
9. 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.
10. 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.
11. The supplied materials should be strictly as per specifications mentioned in this tender, otherwise the material would be liable for rejection.
12. Validity of Bid shall be 180 days from the last date of bid submission.
13. EMDs received late due to any reason including postal delay will not be considered.
14. Bidder's quoted rates should be firm and fixed. No price variation and escalation will be allowed.
15. Bids must be submitted in English language only.
16. Incomplete, telegraphic or conditional tenders are not accepted.
17. Canvassing in any manner is strictly prohibited. The same will lead to rejection of the submitted bid.
18. The last date of receipt of bids from agencies is 23.10.2017 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 Uttar Pradesh (UP). EMDs received after due date & time will not be accepted.
19. 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.
20. Bidder has to submit Financial bid package wise. Bidder who wants to participate at different packages, he has to submit different Package wise Financial bids through tender wizard. Accordingly evaluation will be done package wise.

21. The Financial bid shall be opened on 23.10.2017 at 15:30 Hrs. in RECPDCL office, Noida in the presence of such Bidders /their representatives, who desire to be present at the time of opening.
22. 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.
23. Any or all Bids may be rejected or accepted partially or fully without assigning any reason thereof by Chief Executive Officer, RECPDCL.
24. Bidders are requested to watch out RECPDCL website for change of events/additional information from time to time.
25. Bidders are not allowed to advertise/ publicize SPV systems installed through this tender without prior approval from RECPDCL.

Section- 6

BID EVALUATION METHODOLOGY & ALLOCATION OF QUANTITY

1. OPENING AND EVALUATION OF FINANCIAL BID & AALOCATION:

Opening of financial bids will be through online mode only. Evaluation of Financial Bids will be Package wise.

- a) The Financial bids will be opened sequence wise i.e. Package 1 first, then Package 2 and so on and consideration of bidders will be taken accordingly.
Bidders may participate in all packages, as per list shown in Annexure-13.
- b) Work shall be awarded to the respective lowest bidder of each package (each package shall be considered a different entity of work). But in no case, a single bidder shall be awarded more than two package. However, RECPDCL at its sole discretion reserves the right to award more or less than two package as per requirement of the project.
- c) If a bidder found successful for first two package, then the bid submitted by the bidder for remaining packages shall not be opened. The rest package(s), left shall be awarded in the same manner to the successful qualifying bidder from remaining bids.
- d) RECPDCL reserves the right to split /merge the packages at its sole discretion.
- e) 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.
- f) If the successful bidder(s), to whom Allocation Letter/Work Order 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 of such successful bidder and allocate such quantity to other performing bidders in orderly manner.
- g) RECPDCL reserves the right to award or not to award work to the L1 bidder based on the assessment by RECPDCL for implementation of the project as may be deemed fit by company.
- i) Financial Bids will be opened package wise on the date and time indicated in this document in the presence of bidders or their authorized representatives who desire to be present.
- j) 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.
- k) 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.

- l) REC PDCL 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.
- m) Financial Bids shall be evaluated package wise on the basis of total price inclusive of all taxes quoted as per **Annexure-6**.
- n) RECPDCL may or may not conduct reverse auction at its sole discretion.

Section - 7

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 Jammu & Kashmir 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 Jammu & Kashmir 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:

Package	EMD Amount (in Lakhs)	Total No. of Rural HHs	Total No. of Villages	Block	District	Region
Package-3	5.13	1041	5	Kralpora	Kupwara	Kashmir

The Bidder shall furnish Earnest Money Deposit as per above table in the form of Demand Draft/ Bank Guarantee (BG) from a scheduled bank (as per Annexure-4) drawn in favour of ' REC Power Distribution Company Ltd.' payable at New Delhi / Noida. If bidder applying for more than one, EMD has to be submitted separately package wise.

- 2.2** 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.
- 2.3** 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 shall be rejected.
- 2.4** Request for adjustment of Earnest Money Deposit against any previous dues with RECPDCL will not be considered.
- 2.5** EMD will be refunded to the unsuccessful bidders within 30 days after finalization of the tender without any interest.
- 2.6** 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.
- 2.7** 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.
- 2.8** EMD shall be forfeited without prejudice to the Bidder being liable for any further consequential loss or damage incurred to RECPDCL under following circumstances:
- 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.
 - Hundred percent (100%) of EMD amount, if the Successful Bidder fails to unconditionally accept the Allocation Letter/Work Order issued by RECPDCL within 7 days from the date of such Allocation Letter/Work Order.
 - Hundred percent (100%) of EMD amount, if the Successful Bidder fails to furnish PBG as specified in the tender document.

3. PERFORMANCE BANK GUARANTEE (PBG):

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.
- If the supplier does not fulfill its obligations as mentioned Section-4, Clause No. A (5) & A (6), PBG amount shall be forfeited.

4. **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.
5. **PERMIT:** The Bidder will arrange for all necessary Permits to supply material as per Tender specified locations.
6. **QUANTITY:** The quantity mentioned in the tender might either increase or decrease according to the requirement.
7. **TAX EXEMPTIONS:** Bidder shall claim any kind of tax exemption on its own.
8. **LIQUIDATED DAMAGES:** For the delay in supply of materials, the liquidity damage @ 1% of the contract value per week or part thereof subject to the maximum of 10% of the contract value shall be deducted from the bill of the contractor.
9. **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.

10. PAYMENT TERMS:

Sr. No	Milestone	Details of milestone	%
A	Advance Payment (On request of Supplier, interest bearing adjustable initial advance of 10% shall be released to Supplier. The annual interest rate shall be calculated based on SBI Base Rate as applicable from time to time.)	1st Installment: Upon receipt of unconditional acceptance of LOA, detailed proforma invoice of contractor, unconditional & irrevocable Bank Guarantee as per Annexure-VI with a validity up to date of final commissioning in favor of RECPDCL amounting to 110% of total advance amount and unconditional & irrevocable Performance Bank Guarantee (PBG) as per Annexure-VII for ten percent (10%) of the total Contract price towards Contract Performance with a validity till completion of 5 years 6 months' period from the date of receipt of material at Store plus 3 months' claim period.	5%
		2nd Installment: 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	Supply, receipt and acceptance of Materials at site on submission of required documents.	Supply, receipt and acceptance of Materials at site/Store(s) maintained by the Supplier in J&K 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 in original. Supplier can raise Invoices in total two tranches on 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.	50%

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 on 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 half yearly on successful completion of comprehensive maintenance during 5 years from the date of final commissioning (total 10 payments).	20%

11. 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.

12. 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.

13. DISPUTE:

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

13.2 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.

13.3 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.

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

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

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

14. WARRANTY:

The civil work components, mechanical structures, electrical works including power conditioners/Inverters/charge controllers/ distribution boards/digital meters/ 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.

15. 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.

16. 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:

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

Inverters:

1. General Cleaning.
2. Check LCD displays of inverters.
3. Check integrity of wiring.
4. Visual inspection of mechanical fixings of inverters
5. Inspection of cables

Cables:

1. Visual inspection of DC and AC cables

Annexure - 1

TECHNICAL SPECIFICATIONS

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

1. PV MODULE(S):

- 1.1. Indigenously manufactured PV modules should only be used.
- 1.2. The PV modules should be made up of crystalline silicon solar cells and must have a certificate of testing conforming to IEC61215 Edition II / BIS 14286, IEC61730-I and IEC 61730-II from an NABL or IECQ accredited Laboratory.
- 1.3. The module efficiency should not be less than 14%.
- 1.4. The terminal box on the module should have a provision for opening, for replacing the cable, if required.
- 1.5. The module should contain the following details laminated inside the module:
 - a. Name of the Manufacturer or Distinctive Logo.
 - b. Model Number
 - c. Serial Number
 - d. Year of manufacture
 - e. RF tag containing information a to d above
- 1.6. A distinctive serial number starting with NSM will be engraved on the frame of the module or screen printed on the teller sheet of the module.
- 1.7. Mounting frame on the pole with proper fixing such that it should not be get damaged due to severe harsh weather effect & nut bolts shall be such that it should take the winds loading and ice loading. The mounting fixture shall be provided with adequate safety factor as per harsh weather in Jammu Kashmir.

2. SOLAR CHARGE CONTROLLER/ INVERTER: 24V, 10A with MPPT to appropriately charge and protect the battery against overcharge and deep discharge suitable for charging above battery bank. Also, two indicators, green-charging under progress and it should stop glowing when the battery is fully charged & Red-Load Cut Off.

The Charge Controller/ inverter shall be Pulse Width Modulation (PWM) type with Maximum Power Point Tracker (MPPT). It should be equipped with data logging facility such that the data can be downloaded to an external device using USB Port and Bluetooth. The data required to be captured are Daily Generation, Daily Utilization / Consumption and Daily Storage. The supplier to provide the battery and the charger cum controller module in a suitable shock proof metallic or wooden box.

The charge controller should have provision of single phase ac supply input point (phase, neutral and earth) input provision to charge batteries. The system should be ready to be interfaced and communicate with an AC-DC converter as and when the grid is available. The beneficiary may use this provision whenever grid supply reaches to the village as a standby charging facility to charge system batteries.

3. SOLAR INVERTER: Solar Inverter with 24V, 300VA, Pure Sine wave (THD<5%), Output Single phase 230V AC sine wave.

4. BATTERY:

- 1.1. The battery should be 24V, 75Ah @ C/10, Tubular sealed maintenance free GEL type. Charging-Discharging Cycles in the Life Span as detailed below:

- 80% DOD : 1500
- 50% DOD : 3000
- 20% DOD : 4000

- 1.2. **Battery Stand:** A vented plastic/ wooden/ metallic box with acid proof corrosion resistant paint.
- 1.3. 75% of the rated capacity of the battery should be between fully charged & load cut-off conditions.
- 1.4. Battery should conform to the latest BIS/International Standards.

5. ELECTRONICS:

- 5.1. Maximum Power Point Tracker (MPPT) must be provided in the System.
- 5.2. Over all total Efficiency of the Electronics should be Minimum 85%.
- 5.3. Electronics should have temperature compensation for proper charging of the battery throughout the year.
- 5.4. Inverter should be with "THD" less than 5% and Efficiency more than 90%.
- 5.5. Necessary lengths of wires/cables, switches and fuses should be provided.
- 5.6. The system should have separate ports for connecting each load along with a charging port for mobile and laptop.
- 5.7. The idle current i.e. when there is no load (& inverter is switched OFF, in case of A.C. Systems) and no display, it should be less than 150 mA.
- 5.8. The PCB containing the electronics should be capable of solder free installation and replacement.
- 5.9. Necessary lengths of wires/cables, switches suitable for DC use and fuses should be provided.
- 5.10. The inverter output AC voltage should not change with the decreased battery voltage in the operating voltage range of the battery.
- 5.11. Inverter must have current limiting facility for the load exceeding 100 Watts.

6. ELECTRONIC PROTECTIONS:

- 6.1. Adequate protection is to be incorporated under "No Load" condition.
- 6.2. The system should have protection against battery over charge and deep discharge condition.
- 6.3. Load reconnect after low battery disconnect should be provided at 80% of the battery capacity status.
- 6.4. Adequate protection should be provided against battery reverse polarity.
- 6.5. Fuses should be provided to protect against short circuit conditions.
- 6.6. Protection for reverse flow of current through the PV module(s) should be provided.

7. INDICATORS:

- 7.1. The system should have two indicators, green and red.
- 7.2. 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.
- 7.3. Red indicator should indicate the battery "Load Cut Off" condition.

8. MECHANICAL COMPONENTS:

- 8.1. A corrosion resistant metallic frame structure should be fixed on the pole to hold the SPV module.
- 8.2. The frame structure should have provision so that the module can be oriented at the suitable tilt angle.
- 8.3. A vented, acid proof and corrosion resistant metallic box or plastic box made of Polypropylene-Copolymer (PP-CP) with a locking arrangement for outdoor use should be provided for housing the battery.
- 8.4. All the houses shall be provided with 3mtr length pole (3" thickness 40 NB -Class B - MS

Galvanized/Aluminium Anodized - 2.5 Mtr. Height above Ground Level) mounted structures. Minimum depth of Pole below Ground Level should be 500mm. Foundation for Pedestal should be PCC with 1:2:4 ratio (M15 Concrete). The minimum height of foundation should be 450mm.

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

- Basic principles of Photovoltaic.
- A small write-up (with a block diagram) on Solar Street Lighting System-its components, PV module, battery, electronics and luminaire and expected performance.
- Type, Model number, Voltage & capacity of the battery, used in the system.
- The make and wattage of the LED used in the lighting system.
- About Charging and Significance of indicators.
- Clear instructions about erection of pole and mounting of PV module(s) and lamp housing assembly on the pole.
- Clear instructions on regular maintenance and troubleshooting of the Solar Street Lighting System.
- DO's and DON'T's.
- Name and address of the contact person for repair and maintenance, in case of non-functionality of the solar street lighting system.
- O&M Manual should contain the make, model number, country of origin and technical characteristics (including IES NALM-80 report) of W-LEDs used in the lighting system.

10. 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
- Grid to load directly < 8 %
- Grid to battery plus battery to load < 12 % excluding battery losses

Quality Certification, Standards and Testing for Solar Home Lighting & Street Lighting System

Quality certification and standards for Solar Home Lighting & Street 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	Testing Tubular Lead Acid/ Capacity Test Charge/ Discharge Efficiency Self- Discharge	IS 1651/ IS 13369
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
Uttar Pradesh (UP)

Sub.: Engagement of Service Agency

Dear Sir,

1. We wish to apply for Bid against RECPDCL's Tender no: RECPDCL/FB/RB/SOLAR/2016-17/.....
dated:for Package-3 " **Electrification of Un-electrified Villages in Jammu & Kashmir State
by installing Solar Stand alone systems including 5-years Comprehensive Maintenance**" 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 Villages in Jammu & Kashmir State by installing Solar Stand alone systems including 5-years Comprehensive Maintenance

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./ LLP
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 2016 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, 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
Villages in Jammu & Kashmir State by installing Solar Stand alone systems including 5-years
Comprehensive Maintenance** 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 Villages in Jammu & Kashmir State by installing Solar Stand alone systems including 5-years Comprehensive Maintenance

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	PV Module					
2	Module Mounting Structure					
3	Inverter with Charge Controller					
4	Battery with battery stand					
5	LED 6 Watt					
6	24V-20 Watt BLDC Fan					
7	Cables					
8	Pole 3 mtr 40NB					
9	Laptop or mobile charger					
10	DC USB Port, 24V, 1A.					
11	Outlet socket for operating BLDC Fan, 24V, 20 watt.					
12	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 remote villages in J&K 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

Inverters: SMA / ABB / Delta Electronics / Sukam or any higher quality

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

Battery: HBL / Exide

LED: Philips / Syska / Havells / Wipro

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 through Online)

Supply, Transportation & Installation of Solar Home Power Packs in Jammu & Kashmir Under Deendayal Upadhyaya Gram Jyoti Yojana (DDUGJY) Scheme.

Package-3 (Kupwara-I)

NAME OF THE COMPANY										
S.No	Description of Item	Quantity of Solar Power Packs in Nos.	Price in INR							
			Unit Price	Total Price	GST Percentage		GST Tax Amount			Total Price (Incl. GST)
					CGST & SGST/UGST	IGST	CGST & SGST/UGST	IGST	Total Tax Amount	
1	2	3	4	5=3*4	6	7	8=5*6	9=5*7	10=8+9	11=5+10
A	Supply									
1	Planning,Design,Engineering,Assembly Manufacturing/Fabrication,Testing & Supply of Solar Power Packs with incidental services as per Tender specification	1041		₹ 0.00			₹ 0.00	₹ 0.00	₹ 0.00	₹ 0.00
	Sub Total (A)			₹ 0.00			₹ 0.00	₹ 0.00	₹ 0.00	₹ 0.00
B	Installation									
B.1	Inland Transportation including Loading,Unloading,Insurance,Transfer to site & Other Costs Incidental for Deleivery	1041		₹ 0.00			₹ 0.00	₹ 0.00	₹ 0.00	₹ 0.00
B.3	Installation,Testing,Commissioning & Documentation of all items/Materials required to complete the Electrification works which interalia include installation of Solar PV Standalone system	1041		₹ 0.00			₹ 0.00	₹ 0.00	₹ 0.00	₹ 0.00
	Sub Total (B)			₹ -			₹ -	₹ -	₹ -	₹ -
	Grand Total (A+B)			₹ -			₹ -	₹ -	₹ -	₹ -

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, warranty of Solar Home Lighting, and comprehensive maintenance of the supplied system including spares for 5 years after commissioning 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	All taxes as per Income Tax & GST rules of Government of India and Government of Jammu & Kashmir will be payable by the Bidder.
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 Jammu & Kashmir as the case may be.
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.
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.
7	Bids with non-conformity to above will be considered as non-responsive.
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.
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.
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.
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.

Annexure - 7

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-8

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 empanelment, we shall be completely liable for actions taken by RECPDCL as per terms & conditions of the tender including disqualification from empanelment with RECPDCL and exclusion from future contracts/assignments.

(Signature of Authorized Signatory)

Name*:

Designation*:

Seal:

* Please provide the name and designation of each signatory.

Annexure – 9
INTEGRITY PACT

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 Villages in Jammu & Kashmir State by installing Solar Stand alone systems including 5-years Comprehensive Maintenance.

(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 : _____

(Name & Address) _____

Witness 2 : _____

(Name & Address) _____

Annexure - 10
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 - 11
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 from the date of final commissioning plus 3 months' claim period.

Annexure-12

Name of Agencies for Participation

Note: To participate in this tender, below mentioned bidders have to submit relevant document as asked in this tender document and also supporting documents asked against below mentioned Technical Evaluation.

MNRE Channel Partners (Off-Grid) with rating 1A to 1C, and 2A to 2C, successful empanelled agencies who had submitted security deposit against RECPDCL's EOI no: RECPDCL/Tech/EOI/Empanelment/2015-16/3130 dated: 02.02.2016 mentioned in "**Annexure - 12**" & RECPDCL empanelled agencies for Power Distribution Business

Sl. No.	Name of Agency	Participation Criteria (MNRE rating 1A / 1B / 1C / 2A / 2B / 2C) / RECPDCL Empanelled agency & Security deposited/ Distribution agencies
1	M/s Gautam Solar Pvt. Ltd, New Delhi	MNRE rating 1A
2	M/s Luminous Power Technologies Pvt. Ltd, New Delhi	
3	M/s Hero Solar Energy Pvt. Ltd., New Delhi	
4	M/s ReNew Solar Energy Pvt. Ltd., Gurgaon	
5	M/s Sukam Power Systems Ltd, Gurgaon	
6	M/s Tata Power Solar, Bangalore	
7	M/s Bosch Ltd, Bangalore	
8	M/s Tata Power company-SBD, Bangalore	
9	M/s EMMVEE Photovoltaic Power Pvt. Ltd, Bangalore	
10	M/s V-Gaurd Industries, Kochi	
11	M/s Shakti Pumps India Ltd, Pithampur	
12	M/s Godrej & Boyce manufacturing Co. Ltd, Mumbai	
13	M/s Thermax Ltd., Pune	
14	M/s Mahindra EPC services Pvt. Ltd, Mumbai	
15	M/s Kirloskar Brothers Ltd., Maharashtra	
16	M/s CRI Pumps Pvt. Ltd, Coimbatore	
17	M/s Larsen & Toubro Ltd, Chennai	
18	M/s Swelect Energy Systems Ltd, Chennai	
19	M/s Sun Edison Solar Power India Pvt. Ltd., Chennai	
20	M/s PPS Enviro Power Pvt. Ltd., Hyderabad	
21	M/s HBL Power Systems Ltd, Hyderabad	
22	M/s Ritika Systems Pvt. Ltd, Noida	
23	M/s Jakson Engineers Ltd., Noida	
24	M/s Philips India Ltd, Kolkata	
25	M/sChoride Power Systems & solutions Ltd, Kolkata	
26	M/s Agni Power & Electronics Pvt. Ltd, Kolkata	

27	M/s Vikram Solar Pvt. Ltd, Kolkata	MNRE rating 1B
28	M/s Uniline energy systems Pvt. Ltd, New Delhi	
29	M/s Topsun Energy Ltd, Gandhinagar	
30	M/s UM Green Lighting Pvt. Ltd, Gurgaon	
31	M/s Conergy Energy Systems India Pvt. Ltd, Bangalore	
32	M/s Microsun Solar Tech Pvt. Ltd, Bangalore	
33	M/s Jain Irrigation systems Ltd, Jalgaon	
34	M/s Andromeda Energy Technologies Pvt. Ltd., Hyderabad	
35	M/s Statcon Energias Pvt. Ltd., Noida	
36	M/s Environ Energy Corp.India Pvt. Ltd, Kolkata	
37	M/s Orb Energy Pvt. Ltd, Bangalore	MNRE rating 1C
38	M/s KELTRON, Trivandrum	
39	M/s KCP Solar industry, Salem	
40	M/s Vega Solar Energy Pvt. Ltd, Hyderabad	
41	M/s Photon Energy Ltd, Hyderabad	
42	M/s Pulse power Technologies Pvt. Ltd., Kolkata	
43	M/s Lanco Solar Pvt. Ltd, Gurgaon	
44	M/s MroTek Ltd., Bangalore	
45	M/s TRA International Knowledge Services, New Delhi	
46	M/s Mohan Energy Corporation Pvt. Ltd., New Delhi	MNRE rating 2A
47	M/s C&S Electric Ltd, New Delhi	
48	M/s Arise India Ltd., New Delhi	
49	M/s Harsha Bakus Solar Pvt. Ltd, Ahmedabad	
50	M/s Omni grid Micro power Company Pvt. Ltd, Gurgaon	
51	M/s Grensol Renewable Power Pvt. Ltd, Bangalore	
52	M/s Ujaas Energy Ltd., Indore	
53	M/s Waree Energies Ltd, Mumbai	
54	M/s Rolta power Pvt. Ltd, Mumbai	
55	M/s Ador Powertron Ltd., Pune	
56	M/s Span Pumps Pvt. Ltd, Pune	
57	M/s Genus Innovations Ltd, Jaipur	
58	M/s Rays Power Infra Pvt. Ltd., Jaipur	
59	M/s Gamesa Wind Turbines Pvt. Ltd, Chennai	
60	M/s Amarraja Batteries Ltd, Hyderabad	
61	M/s Statcon Power Controls . Ltd., Noida	
62	M/s Tritronics (India) Pvt. Ltd., Delhi	MNRE rating 2B
63	M/s Vipul Enterprises, New Delhi	
64	M/s Odema Renewables India Pvt. Ltd. , New Delhi	
65	M/s Easy Photovoltaics Pvt. Ltd, Delhi	
66	M/s Claro Energy Pvt. Ltd., New Delhi	
67	M/s Rays power Experts Pvt. Ltd., New Delhi	
68	M/s Kosol Hiramrut Energies Pvt. Ltd, Ahmedabad	
69	M/s AVI Appliances Pvt. Ltd., Ahmedabad	
70	M/s JJ PV Solar Pvt. Ltd, Rajkot	

71	M/s Rotomag Motors & Controls Pvt. Ltd, Udyognagar	MNRE rating 2B
72	M/s Ncube India Services Pvt. Ltd, Gurgaon	
73	M/s Enzen Global Solutions Pvt. Ltd, Bangalore	
74	M/s Avni Energy solutions Pvt. Ltd., Bangalore	
75	M/s Kotak Urja Pvt. Ltd., Bangalore	
76	M/s Promptec Renewable Energy Solutions Pvt. Ltd, Bangalore	
77	M/s Power one Microsystems Pvt. Ltd., Bangalore	
78	M/s Deepa solar Lighting Systems Pvt. Ltd, Bangalore	
79	M/s Team Sustain, Kochi	
80	M/s Ammini Solar Pvt. Ltd, Tiruvanthapuram	
81	M/s Vivaan Solar Pvt. Ltd, Gwalior	
82	M/s Chemtrols Solar Pvt. Ltd, Mumbai	
83	M/s Refrex Energy Ltd, Mumbai	
84	M/s International Marketing Corporation, Mumbai	
85	M/s Relyon Solar Pvt. Ltd, Pune	
86	M/s Consul Neowatt Power solutions Pvt. Ltd., Chennai	
87	M/s Aletrona energy Pvt. Ltd, Chennai	
88	M/s Access Solar Ltd, Hyderabad	
89	M/s Meera & Ceiko Pumps Pvt. Ltd, Hyderabad	
90	M/s Surana Solar Ltd., Hyderabad	
91	M/s Solon India Pvt. Ltd., Hyderabad	
92	M/s Thrive Solar Energy Pvt. Ltd., Hyderabad	
93	M/s Nano Bright Solar Technologies Pvt. Ltd, Hyderabad	
94	M/s Premier Solar Systems Pvt. Ltd., Hyderabad	
95	M/s Novus Green energy Systems Pvt. Ltd., Hyderabad	
96	M/s Kirti Solar Ltd, Kolkata	
97	M/s SR Corporate Consultants Pvt.Ltd, Raipur	MNRE rating 2C
98	M/s Regent Energy solutions, New Delhi	
99	M/s Moser Baer Solar Ltd., New Delhi	
100	M/s Kalisons Televent Pvt. Ltd, New Delhi	
101	M/s Agarwal Renewable Energy Pvt. Ltd, Margao	
102	M/s Solex energy Pvt. Ltd, Udyognagar	
103	M/s Gensol Consultants Pvt. Ltd., Ahmedabad	
104	M/s Vimal Electronics, Gandhinagar	
105	M/s Bright Solar Pvt. Ltd., Ahmedabad	
106	M/s Shashwat Cleantech Pvt. Ltd, Ahmedabad	
107	M/s Exicom Telesystems Ltd, Gurgaon	
108	M/s Cambridge Energy Resources, Gurgaon	
109	M/s SG Enterprises, Ranchi	
110	M/s Anu Solar Power Pvt. Ltd., Bangalore	
111	M/s Central Infra Energy Corporation Of India Ltd, Bangalore	
112	M/s Rashmi Industries, Bangalore	
113	M/s Renxsol Eco Tech Pvt. Ltd, Bangalore	
114	M/s Thkaral Services India Ltd, Bangalore	

115	M/s PAE Renewables Pvt. Ltd, Bangalore	MNRE rating 2C
116	M/s Prolight Systems, Bangalore	
117	M/s Auro Power Pvt. Ltd., Bangalore	
118	M/s KC Kpoar Energy Solutions Pvt. Ltd, Angamaly	
119	M/s Megabyte technologies, Trivandrum	
120	M/s Hykon India Pvt. Ltd, Thrissur	
121	M/s GK Energy Marketers Pvt. Ltd, Pune	
122	M/s Arnima Ventures LLP, Pune	
123	M/s Autonic Energy Systems Pvt. Ltd, Mumbai	
124	M/s Aditya Green Energy Pvt. Ltd, Latur	
125	M/s Pearl Enterprises, Pune	
126	M/s Qubic Suntrack Systems Pvt. Ltd. , Pune	
127	M/s Arka Green Power Pvt. Ltd, Navi Mumbai	
128	Sree Nandhee's Technologies Pvt. Ltd, Chennai	
129	M/s Voltech Engineers Pvt. Ltd., Chennai	
130	M/s Argo Solar Pvt. Ltd, Hyderabad	
131	M/s Progressive Technologies, Hyderabad	
132	M/s Premier Solar Powertech Pvt. Ltd, Hyderabad	
133	M/s Sunwatt Soletech Pvt. Ltd., Hyderabad	
134	M/s e-mug Energy Pvt. Ltd., Hyderabad	
135	M/s Sri Savitr Solar Pvt. Ltd, Hyderabad	
136	M/s Aditi Solar Pvt. Ltd., Hyderabad	
137	M/s Amara Raja Electronics Ltd, Hyderabad	
138	M/s Elcompincs Technolgies (India) Pvt. Ltd, Noida	
139	M/s Sunsource Energy Pvt. Ltd, Noida	
140	M/s Tapan Solar Energy Pvt. Ltd, Ghaziabad	
141	M/s Sova Power Ltd, Kolkata	
142	M/s Sunshine Power Products Pvt. Ltd, Kolkata	
143	M/s Getanjali Solar Enterprises, Kolkata	
144	Alien Energy Pvt. Ltd., Sahibabad	RECPDCL Solar Empanelled agency & BG security submitted
145	Punam Energy Pvt. Ltd., Kolkata	
146	First Green Consulting Pvt. Ltd.	
147	Suncraft Energy Pvt. Ltd., Kolkata	
148	Soura Natural Energy Solutions India Pvt. Ltd., Kerala	
149	VolksEnergiePvt. Ltd., New Delhi	
150	Elcomponics Technologies India Pvt. Ltd., Noida	

151	JV of Two Plus Marketing Pvt. Ltd., Gurgaon and Sukam Power Systems Ltd.	
152	Fourth Partner Energy Pvt. Ltd.	RECPDCL Solar Empanelled agency & BG security submitted
153	Modern Solar Pvt. Ltd., Kolkata	
154	JV of LCG Industries Ltd., Faridabad and Sunshine Technocon Pvt. Ltd.	
155	Ados Renewable Pvt. Ltd., Dehradun	
156	Rays Power Infra Pvt. Ltd., Jaipur	
157	Premier Solar Systems Pvt. Ltd., Secunderabad	
158	Ujaas Energy Ltd., Indore	
159	Sunil Hi-tech Engineers Ltd., Nagpur	
160	Uneecops Technologies Ltd., New Delhi	
161	Novergy Energy Solutions Pvt. Ltd., Udaipur	
162	Power-One Micro Systems Pvt. Ltd., Bangalore	
163	UM Green Lighting Pvt. Ltd., Gurgaon	RECPDCL empanelled agencies for Power Distribution Business
164	Novus Green Energy Systems Pvt. Ltd., New Delhi	
165	M/s Tata Power Delhi Distribution Company limited, Delhi	
166	M/s Feedback Infra Private Limited., Gurgaon	
167	M/s IL & FS Energy Development Company Limited, Gurgaon	
168	M/s CESC Limited, Kolkata	
169	M/s Ernst & Young LLP, Gurgaon	
170	M/s India Power Corporation Limited, Kolkata	
171	M/s Shyam Indus Power Solutions Private Limited, New Delhi	

Note: Relevant document stating bidder is a MNRE Channel Partner (Off-Grid) with MNRE rating as 1A to 1C / 2A to 2C / RECPDCL Empanelled agency & BG security deposited / RECPDCL empanelled Distribution Agency has to be submitted.

Annexure-13

Detailed List of the Un-Electrified Villages to be taken up for Electrification in J&K state

List of the Un-electrified villages in J&K state									
Sl No.	Region	Name of District	Block	No. of Village	Village census code	Mode of Electrification	No. of Habitations	Total No. of RHHs	Package
1	Jammu	Kishtwar	Marwa	Chanjer	004747	Off-Grid	6	560	Package-1 (Kishtwar-I)
				Dharie	004741		1	60	
				Hanzal	004749		2	114	
				Nopachi	004742		7	465	
				Pathgam	004744		3	295	
				Qaderna	004746		6	295	
				Rinaie	004745		10	469	
				Tiller	004748		1	130	
			Yeerdu	004743	8		425		
			Warwan	Aftee	004734		2	165	Package-2 (Kishtwar-II)
				Barayan	004737		1	160	
				Busmina	004733		1	180	
				Choye Draman	004735		1	165	
				Gumri	004731		1	110	
				Inshan	004738		2	210	
				Margi	004732		1	220	
				Mulwarwan	004739		3	138	
				Mungli	004736		1	85	
				Rakenwas	004730		1	107	
			Sukhnai	004729	1		107		
			Hunli-Kronli	Nowgam	004740		1	90	
2	Kashmir	Kupwara	Kralpora	Bichwal	000004	Off-Grid	1	21	Package-3 (Kupwara-I)
				Bore	000001		1	130	
				Bugna	000003		1	110	
				Mindiyan	000005		9	645	
				Patrin	000006		4	135	
			Rajwara	Athrattoo	000172		1	16	Package-4 (Kupwara-II)
		Sogam	Chuntiwari	000010	9		359		
			Bandipore	Tulail	Pushwari		000015	4	180
		Abdullan			002726		2	90	
		Forest Block			002727		5	266	
		Gund Gul Sheikh			002721		1	60	
		Kilshi Pain			002709		7	187	
		Malangam			002723		1	50	
		Manz Gund			002715		2	50	
Saradab	002719	3			81				
3	Ladakh	Leh	Khalsi	Lingshet	000959	Off-Grid	4	113	Package-6 (Leh)
				Youl Chung	000961		5	54	
			Leh	Chilling Sumda	000864		4	94	
				Skiumarkha	000865		9	139	
			Nobra	Digger	000936		1	62	
				Hunder Dok	000927		2	34	
				Largiab	000924		3	124	
				Warisfistan	000916		2	21	
			Nyoma	Samad Rakchan	000898		1	23	
			Saspol	Tarhipti	000956		2	55	
4	Kargil	Kargil	Batambis	001014	Off-Grid	5	217	Package-7 (Kargil)	
			Lugnak	Chah		001085	10		115
		Icher		001086		4	31		
		Kargyak		001088		4	51		
		Testa		001087		7	108		
		Sankoo	Itchoo	001046		2	64		
			Umba	001036		1	28		
		Taisuru	Tangol	001060		1	13		
		Total				54			

Note: This is a tentative list only. The quantities may vary while installation.