



NIT No: RECPDCL/SOLAR/ANP/2018-19/2017

Date: 09.08.2018

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

Package #	Tender Description
PACKAGE - 1	Design, Engineering, Manufacture, Testing, Supply, Insurance, Transportation, Delivery (FOR basis) of 5398 nos. of Solar Home Lighting Standalone Systems each of capacity 300Wp for electrification of Off-Grid villages in Arunachal Pradesh under SAUBHAGYA Scheme
PACKAGE - 2	Design, Engineering, Manufacture, Testing, Supply, Insurance, Transportation, Delivery (FOR basis) of items of 300Wp Solar Home Lighting Standalone Systems for electrification of Off-Grid villages in Arunachal Pradesh under Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

REC Power Distribution Company Limited (RECPDCL)

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

Under Ministry of Power, Govt. of India)

CIN no. of RECPDCL: U40101DL2007GOI165779

Corporate office

4th Floor, Kribhco Bhavan,
A-10, Sector-1, Noida 201301

Gautam Budh Nagar
Uttar Pradesh (UP)

Phone: (0120) 4383783

Fax: 0120-4383768

Website: www.recpdcl.in

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

Important Dates	
Date of release of NIT / Tender	09.08.2018
Pre Bid Meeting	16.08.2018 at 11:30 Hours
Last date of submission of Bid	24.08.2018 up to 17:00 Hours
Date of Opening of Technical Bid	24.08.2018 at 17:30 Hours
Date of Opening of Financial Bid	To be informed later

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

-Sd-
(Bhupender Gupta)
Addl. CEO

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

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Section-1

TENDER INFORMATION

Name of the Assignments:

Package-1

Design, Engineering, Manufacture, Testing, Supply, Insurance, Transportation, Delivery (FOR basis) of 5398 nos. of Solar Home Lighting Standalone Systems each of capacity 300Wp for electrification of Off-Grid villages in Arunachal Pradesh in Arunachal Pradesh under SAUBHAGYA Scheme

Package-2

Design, Engineering, Manufacture, Testing, Supply, Insurance, Transportation, Delivery (FOR basis) of items of 300Wp Solar Home Lighting Standalone Systems for electrification of Off-Grid villages in Arunachal Pradesh under Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

Important Information

Sl. No.	Event	Date / Information
1	Date of release of NIT / Tender	09.08.2018
2	Pre Bid Meeting	16.08.2018 at 11:30 Hours
3	Last date of submission of Bid	24.08.2018 up to 17:00 Hours
4	Date of Opening of Technical Bid	24.08.2018 at 17:30 Hours
5	Date of Opening of Financial Bid	To be informed later
6	Tender document	The Tender document can be downloaded and viewed from any of the website: www.recpdcl.in (or) www.recindia.nic.in (or) www.eprocure.gov.in (or) www.tenderwizard.com/REC at free of cost.
7	Earnest Money Deposit (EMD) - Package wise	All participating bidders has to submit EMD Package wise either in the form of: (i) Demand Draft (DD) in original from a scheduled bank - in favour of "REC Power Distribution Company Ltd" payable at New Delhi/Noida (or)

		(ii) Bank Guarantee (bid bank guarantee) in original from a scheduled bank as per format of Annexure - 4 (a) for Package 1 and Annexure - 4 (b) for Package 2 . EMD amount was shown at clause no 2.1 EMD table under Section 8 - Commercial terms, Conditions, and other provisions of this tender document.
8	Address for communication	REC Power Distribution Company Limited (RECPDCL), 4th Floor, Kribhco Bhavan, A-10, Sector-1, Noida 201301 Gautam Budh Nagar, Uttar Pradesh (UP) Phone: (0120) 4383783, Fax: 0120-4383768, Email: co@recpdcl.in
9	Validity of Bid	180 days from the date of opening of bid
10	Contact Person	Shri. Bhupender Gupta, Addl. CEO, REC Power Distribution Company Limited (RECPDCL), Phone: (0120) 4383783; Fax: 0120-4383768, Email: co@recpdcl.in

Section -2 **PREFACE&INTENT**

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

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

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

Government of India has launched Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY) for strengthening & augmentation of power distribution network, separation of agriculture & non-agriculture feeders and rural electrification works. This scheme is already under implementation by various states in the country. In addition to this, Government of India has recently launched SAUBHAGYA scheme to ensure last mile connectivity and electricity connections to all remaining un-electrified households in the country. This scheme aims for providing service connections to un-connected households in rural and urban areas through available grid or by incremental infrastructure.

Package 1:RECPDCL intends to procure, on behalf of Arunachal Pradesh Energy Development Agency (APEDA),Solar Home Lighting Standalone Systems each of capacity 300Wp for electrification of Off-Grid villages in Arunachal Pradesh under SAUBHAGYA Scheme.

Arunachal Pradesh Energy Development Agency (**hereinafter referred as “APEDA”**) shall be the Owner of the project under SAUBHAGYA however, REC Power Distribution Company Limited (**hereinafter referred as “RECPDCL”**) shall act as Employer for the Contract under this NIT.

RECPDCL shall be responsible for procurement of Solar Home Lighting Standalone Systems under Package-1 of this NIT & timely supply to the respective store(s) located in the operational area of the Owner on behalf of Owner.

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

Package 2: RECPDCL intends to procure, on behalf of Solar Energy Corporation of India (SECI),items of 300Wp Solar Home Lighting Standalone Systems for electrification of Off-Grid villages in Arunachal Pradesh under Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY).

RECPDCL shall be responsible for procurement of items of Solar Home Lighting Standalone Systems under Package-2 of this NIT. These shall be supplied to the respective store(s) maintained in Arunachal Pradesh by executing agency appointed by RECPDCL.

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

Technical specifications of Package 1 and Package 2 for Standalone Solar systems are mentioned at Annexure-1.

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:

- a. While accessing tenderwizard.com website, please type 'REC' in capital letters only to get access of tender portal.
- b. 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, 8799753410, 8800900127) and for tender related queries you may contact RECPDCL officials whose address is given in this tender document.

C. Submission of Bid Documents (Online):

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

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

1. Eligibility criteria supporting documents as asked in Section-5

2. **Letter for Submission of Bid** on Company's letterhead duly signed as per format of **Annexure-2** along with copies of **GST Registration certificate, Income Tax (IT) Permanent Account Number (PAN) card** has to be submitted. This is mandatory document for submission.
3. **Bidder's General Details** has to be submitted on Company's letterhead duly signed as per format of **Annexure - 3**.
4. **Earnest Money Deposit (EMD) - Package wise**: EMD has to be deposited package wise either in the form of **Demand Draft (DD)** in original from a scheduled bank in favour of "REC Power Distribution Company Ltd" payable at New Delhi / Noida (or) in the form of **Bank Guarantee (bid bank guarantee)** as per format **Annexure - 4 (a) for Package 1 and Annexure - 4 (b) for Package 2**. EMD amount was shown at clause no 2.1 under Section 8 - Commercial terms, Conditions and other provisions. **Scan copy of DD / BG to be uploaded and Original of DD / BG** to be submitted before last date & time of submission of bid. Exemption for payment of EMD amount will be given to Micro and Small Enterprises (MSEs) registered with National Small Industries Corporation Ltd (NSIC). However, relevant valid document / Certificate from NSIC or MSE need to be submitted without which bidders are not entitled for exemption.
5. **Liquid Assets (LA)**: A certificate from banker (as per format of **Annexure-5**) indicating various fund based/non fund based limits sanctioned to the bidder and the extent of utilization as on date. Such certificate should have been issued not earlier than three months prior to the date of bid opening. Wherever necessary, RECPDCL may make queries with the Bidders' bankers.
6. **Technical Bid Package wise** has to be submitted **through online** as per format **Annexure - 6** by mentioning Specification, Make, Model, unit, quantity of all bill of items that will be used in the project.
7. **Financial Bid Package wise** has to be submitted **strictly through online mode ONLY** as per format specified at **Annexure-7(a) for Package 1 and Annexure-7 (b) for Package 2**.
8. PERT Chart has to be submitted for Package 1 and Package 2 separately as per **Annexure-8**
9. **Acceptance form for participation in Reverse Auction Event** on Company's letterhead duly signed as per format **Annexure - 9**.
10. **Undertaking towards not being black-listed** on company's letterhead duly signed as per format of **Annexure-10**.
11. Duly notarized **Power of Attorney** as per **Annexure-11** (Scanned copy to be uploaded and original to be submitted before the last date & time of Submission of Tender)
12. Duly notarized **Agreement for Consortium/ Joint Venture Firm** as per **Annexure- 12** respectively (Scanned copy to be uploaded and original to be submitted before the last date & time of Submission of Tender)
13. **Integrity Pact (2 copies on Rs. 100/- non-judicial stamp paper)** have to be submitted duly signed and stamped as per format of **Annexure-13**. Scanned copies of Integrity Pacts have to be uploaded and ***originals have to be submitted before last date & time of submission of bid.***
14. **Complete set of this tender document** with duly signed on each page to be submitted as token of acceptance of its contents.

Note for bid hard copy submission (Package wise):

Bidder has to submit hard copies package wise in separate envelopes.

All the above documents **except Financial bid** should be submitted in hard copy in order, duly numbered, legible, signed by authorized signatory, stamped and kept in an envelope with subject mentioning "PACKAGE 1: Design, Engineering, Manufacture, Testing, Supply, Insurance, Transportation, Delivery (FOR basis) of 5398 nos. of Solar Home Lighting Standalone Systems each of capacity 300Wp for electrification of Off-Grid villages in Arunachal Pradesh under SAUBHAGYA Scheme" on top of one envelope

"PACKAGE 2: Design, Engineering, Manufacture, Testing, Supply, Insurance, Transportation, delivery (FOR basis) of items of 300Wp Solar Home Lighting Standalone systems for electrification of Off-Grid villages in Arunachal Pradesh under Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)" on top of another envelope and addressing to

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

Section – 4 **DETAILED SCOPE OF WORK**

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

PACKAGE - 1

Implementation of electrification (Off Grid) in Arunachal Pradesh State under Saubhagya Scheme

Design, Engineering, manufacture, testing, supply including transportation, delivery (F.O.R basis) of 5398 nos. of Solar based Home Lighting Systems of 300 Wp each for every un-electrified household with PV panel/module, Maximum Power Point Tracking MPPT Charge controller, battery, Pole, Module mounting structure, battery box, cables, LED bulbs, BLDC Fan, DC Power plug, mobile phone charging provision, on line monitoring through mobile phone SMS, accessories, and miscellaneous items etc. as per the following specifications, terms and conditions for implementation of electrification (Off Grid) in Arunachal Pradesh State under Saubhagya Scheme. District / Village wise list of Solar Power packs to be procured - for electrification of Off-Grid villages in Arunachal Pradesh under Saubhagya Scheme is as shown at Annexure-15. Quantity of requirement may vary up to 20%. Detailed layout along with drawings etc. shall be submitted by the contractor.

A. Solar Home Lighting System

Solar based Home Lighting System of 300 Wp

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

The System consists of:

a) Solar PV Module (with Module Mounting Structure) : 300 Wp. Bidder shall procure 2 x 150 Wp modules.

b) SPV Module Mounting Structure (MMS) on Pole: A corrosion resistant metallic frame structure to be provided along with PV modules which shall be suitable for fixing on the pole of 3 mtr. length, 40NB Medium (B-Class) as per IS: 1239 (Part-1) - 2004. The frame structure should have provision so that the module can be oriented at the suitable tilt angle. Structure may be designed to accommodate Solar PV module(s).

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

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

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

f) Load:

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

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

- Panel to charge controller: Min. 2 core 4 sq. mm flexible multi strand copper conductor cable as per IS 694.
- 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.

Copper lugs (ring type) shall be supplied for making connection into battery terminals.

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

Non-releasable Nylon Cable Ties shall be 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. 200mm Long - 4.8mm Wide sized cable ties shall be supplied.

Requirement of Miscellaneous Items:

Sl. No.	Item	Requirement per Household
1	Cable 2C x 4 sq. mm	15 mtr.
2	Cable 2C x 1.5 sq. mm	25 mtr.

3	MC4 connector	1 pair
4	PVC Conduit pipe 20 mm dia. for household wiring (as per IS-9537 having ISI stamping)	25 mtr
5	PVC bend - L Type dia. 20mm	10 nos.
6	PVC bend - T Type dia. 20mm JB 3 or 4 way	5 nos.
7	Cable Tie 200 mm x 4.8mm	50 nos.
8	Bulb holder	5 nos.
9	Thimble for connection at input and output terminals of Charge Controller	As per design
10	Lugs 4 sq mm Cu ring type suitable for battery terminals	2 nos.

PACKAGE - 2

Electrification of Off-Grid villages in Arunachal Pradesh under Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

Design, Engineering, Manufacture, Testing, Supply, Insurance, Transportation, delivery (FOR basis) of items of Solar Home Lighting Standalone systems of 300 Wp capacity with PV panel, MPPT & charge controller cum inverter, battery, Pole, Module mounting structure, battery box, cables, LED bulbs, BLDC Fan, Centralized Monitoring System, accessories, and miscellaneous items in Arunachal Pradesh State as per the following specifications, terms and conditions **for electrification of Off-Grid villages in Arunachal Pradesh under Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)**. List of Solar components/equipment to be procured for electrification of Off Grid villages in Arunachal Pradesh under DDUGJY scheme is shown at Annexure-16.

I. 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, 40NB Medium (B-Class) as per IS: 1239 (Part-1) - 2004.The frame structure should have provision so that the module can be oriented at the suitable tilt angle.
- c. The battery should be 12V, 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 Box: 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 Polypropylene-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 of 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 230V AC sine wave.

DC Output terminals of Inverter should have pin type jack and socket arrangement at rear panel.

- 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 (6.0Watts each).
- 2Nos. AC socket for TV set (Max. 25Watt) or Laptop & Mobile Charger.
- Outlet Socket for operating BLDC fan (24V,20Watt).
- DC Output Socket for TV (Max. 25Watt).

- 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.
- 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
- Wiring for DC LED Bulbs : Min. 2 core 1.5 sq. mm flexible multi-strand copper conductor cable as per IS 694, 5 meter cable for each bulb having pin type jack at one end for connection into inverter.

Copper lugs (ring type) shall be supplied for making connection into battery terminals.

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

Non-releasable Nylon Cable Ties shall be 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. 200mm Long - 4.8mm Wide sized cable ties shall be supplied.

Requirement of Items of solar home lighting standalone systems (DDUGJY Scheme):

Sl. No.	Item	Unit	Quantity to be supplied
1	Solar PV Crystalline Module 300 Wp	Nos.	2035
2	Pole 3 meter, 40NB, class-B	Nos.	635
3	Module Mounting Structure (MMS)	Nos.	1212
4	Canopy (for fixing module mounting structure over pole)	Nos.	695
5	Battery 12V, 75 Ah (Tubular Gel type)	Nos.	7771
6	Battery Box	Nos.	1497
7	24V 10 A MPPT Charge Controller cum Inverter 240V, 50 Hz Sine wave (with 2 Nos. AC Plug points for mobile charging & TV/Laptop, 7 Nos. DC output sockets for pin type jack)	Nos.	914
8	BLDC Fan 24V, 20 Watts	Nos.	1715
9	DC LED Bulbs 6 Watt (with E 27 type base)	Nos.	19559
10	Bulb Holder (E 27 Type)	Nos.	18133
11	Switch for DC LED Bulb (Hanging piano type)	Nos.	18288
12	Cable 2C x 4 sq. mm	Meter	3715
13	Cable 2C x 1.5 sq. mm	Meter	75440
14	MC4 connector	Set	3633
15	PVC Conduit pipe 20 mm dia. for household wiring (as per IS-9537 having ISI stamping)	Meter	99577
16	PVC bend - L Type dia. 20mm	Nos.	35930
17	PVC bend - T Type dia. 20mm JB 3 or 4 way	Nos.	11185
18	Cable Tie 200 mm x 4.8mm	Nos.	151200
19	I-Type/ Pin type thimble for connection at input and output terminals of Charge Controller.	Nos.	14178
20	Lugs 4 sq mm Cu ring type (8mm dia)	Nos.	9170

Note: Bidder shall supply above materials suitable/compatible for existing design of the project.

Work involves the following major activities (for Package 1 & Package 2):

1. The Bidder has to provide OEM's Warranty for SPV module for 25 years. PV modules used in Solar Home Lighting System must be warranted for their output peak watt capacity, which should not be less than 90% at the end of Ten (10) years and 80% at the end of Twenty-five (25) years.

2. The Warranty Card to be supplied with the system must contain the details of the system.
3. Bidder shall prepare mounting structure drawing along with electrical circuit diagram and submit the same for approving GTP before supplying.
4. Bill of material shall be submitted along with Technical Bid.
5. All supplied items and spares should comply Technical Specifications as mentioned in Annexure-1.
6. The Bidder has to take all permits, approvals and licenses, insurance etc.
7. Bidder shall provide Technical Manual, User Manual and O&M (Operation & Maintenance) Manual of the system to RECPDCL and/or APEDA/Executing agency appointed by RECPDCL.
8. Bidder shall facilitate to APEDA/Executing agency appointed by RECPDCL for any compatibility issues in Solar Home lighting Standalone systems, if arises.
9. 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 (For Package 1 & Package 2):

- I. Total completion period for the Contract including but not limited to design, engineering, manufacture, testing and supply of materials as per Scope of Work including transportation & insurance up to designated stores in the state of Arunachal Pradesh is **60 days** from the date of issuance of Letter of Intent/Purchase Order (whichever is earlier) as per below mentioned schedule:

No. of days from issuance of Letter of Intent/Purchase Order (whichever is earlier)	Cumulative percentage of supply of materials
30 days	40% of each item mentioned in Financial Bid
45 days	Further 40% (i.e. cumulatively 80%) of each item mentioned in Financial Bid
60 days	Further 20% (i.e. cumulatively 100%) of each item mentioned in Financial Bid

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

- II. In order to match above timeline, each bidder shall submit detailed delivery schedule in the prescribed format (PERT Chart) as per Annexure-XIII through soft as well as in hard copy. However, delivery schedule shall also be discussed with successful bidder at the time of award of contract and for the purpose of contractual delivery/ timeline, the same shall be treated as final.

2. Insurance:

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 up to destination stores. Being a difficult terrain and assignment, a copy of insurance shall also be submitted to RECPDCL.

- 3. Type & Quality of Materials and Workmanship:** The design, engineering, manufacture, supply, testing, transportation, delivery 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 / Saubhagya / DDUGJY shall be used.

- 4. 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 weekly /fortnightly 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 weekly/fortnightly to RECPDCL in prescribed format as desired. RECPDCL will have the right to depute its representatives to ascertain the progress of contract at the premises of works of the bidder or at site.

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

5. 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% or as per applicable IS) by authorized representative of RECPDCL at its sole discretion.
- Should any inspected or tested Goods fail to conform to the specifications, the RECPDCL may reject the goods and the Bidder shall either replace the rejected goods or make alterations necessary to meet specification requirements free of cost to the RECPDCL.
- The RECPDCL's right to inspect, test and, where necessary, reject the Goods after arrival at Project Site shall in no way be limited or waived by reason of the goods having previously been inspected, tested and passed by the RECPDCL or its representative prior to the goods shipment.
- Nothing in this shall in any way release the Bidder from any warranty/guarantee or other obligations under this Contract.

Note:

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

- **Materials may be inspected jointly by representative(s) of REPDCL/REC/DISCOM/Power Department or by RECPDCL alone as the case may be, for which a notice of minimum 5 working days shall be given by the successful bidder.**

Section- 5

Eligibility Criteria for Participation

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

For package-1:

S. No.	Eligibility Criteria	Supportive Document to be provided by bidder
1	<p>This Invitation for Bids, issued by Employer is open to all firms including company (ies), Government Owned Enterprises registered and incorporated in India as per Company Act, 1956/2013 (with amendment from time to time) barring Government department as well as foreign bidders/MNCs not registered and incorporated in India and those bidders with whom business is banned by the Employer.</p> <p>In case, bidder is a Consortium / Joint Venture Firm, both the members of the Consortium/JV should meet above criteria.</p> <p>(For JV/Consortium, all members should have document as asked)</p>	<p>Certificate of Incorporation issued under Indian Companies Act 1956 or 2013 from Registrar of Companies to be submitted and/or Proprietorship firm / Partnership firm (registered with Registrar of firms under Partnership Act, 1932) / LLP firm (registered with Ministry of Corporate Affairs under LLP act, 2008) registration certificate.</p>
Financial Eligibility Criteria		
2	<p>The bidder's average annual turnover must be at least ₹15.95 Crore (Rupees Fifteen Crore Ninety Five Lakhs Only) for Package-1 and ₹ 8.01 Crore (Rupees Eight Crore One Lakh Only) for Package-2</p> <p>during the last three financial years, 2017-18, 2016-17, 2015-16. The turnover refers to a company and not the composite turnover of its subsidiaries/sister concerns etc.</p> <p>(For JV/Consortium, members may jointly comply this criteria)</p> <p>In case a bidder is quoting for more than one packages, annual turnover requirement shall be examined on the basis of sum of package wise requirement of all quoted packages.</p>	<p>3 years audited balance sheets with Profit & Loss Account details of last 3 financial years (2017-18, 2016-17, 2015-16) should be submitted by the bidder. In case, audited balance sheet of 2017-18 is not available, bidder shall submit provisional balance sheet duly certified by Chartered Accountant.</p>

3	<p>Net Worth should be positive for each of the last three Financial years 2017-18, 2016-17, 2015-16</p> <p>Note: Net worth means the sum total of the paid up capital and free reserves (excluding reserves created out of revaluation) reduced by aggregate value of accumulated losses (including debit balance in profit and loss account for current year) and intangible assets. (For JV/Consortium, all members should have positive networth)</p>	Audited annual accounts for last three financial years i.e. FY 2017-18, 2016-17 & 2015-16.
	<p>Bidder shall have liquid assets (LA) and/ or evidence of access to or availability of fund based credit facilities of not less than Rs. 2.28 Crores for Package-1 and Rs. 1.15 Crores for Package-2</p> <p>and the Banker should confirm that the Credit facility is earmarked for the Work specified under Bid on receipt of the Bid.</p> <p>(For JV/Consortium, each member shall individually comply this criteria)</p> <p><i>Liquid assets would include cash (and equivalents), bank deposits, securities that can be freely traded and receivables which has general certainty of getting received.</i></p> <p>In case a bidder is quoting for more than one packages, Liquid Assets requirement shall be examined on the basis of sum of package wise requirement of all quoted packages.</p>	A certificate from banker (as per format of Annexure-5) indicating various fund based/non fund based limits sanctioned to the bidder and the extent of utilization as on date. Such certificate should have been issued not earlier than three months prior to the date of bid opening. Wherever necessary, RECPDCL may make queries with the Bidders' bankers.
Technical Eligibility Criteria		
4	<p>Bidder should have successfully executed similar solar power projects (Solar Standalone/Grid Connected/ Off-grid/ Mini-grid) in last seven years of value as below:</p> <p>For Package-1:</p> <p>One Work Order of 9.11 Crores OR Two Work Orders of 5.69 Crores OR Three Work Orders of 4.56 Crores</p> <p>For Package-2:</p> <p>One Work Order of 4.58 Crores OR</p>	<p>Bidder should submit copy of Work order (mandatory) along with any other document from the list below:</p> <ol style="list-style-type: none"> 1. Proof of receipt of complete payment towards work order. 2. Proof of release of performance bank guarantee against the said work order. 3. Work completion certificate from the client.

	Two Work Orders of 2.86 Crores OR Three Work Orders of 2.29 Crores (For JV/Consortium, members may jointly comply this criteria) In case a bidder is quoting for both packages, Technical Eligibility requirement shall be examined on the basis of requirement of package-1.	
General Eligibility Criteria		
5	The bidder should have valid GST registration certificate. (For JV/Consortium, all members should comply this criteria)	A copy of each certificate should be enclosed.
6	The bidder should have Income Tax registration number (PAN). (For JV/Consortium, all members should comply this criteria)	Bidder should submit valid documentary proof of details of income tax registration number (PAN).
7	Bidder (Both members in case of Consortium/JV) should not be black-listed by any Central/State Govt. organization, PSU etc.	Bidder should submit an undertaking in this regard as per format of Annexure-9.

Section – 6

GENERAL CONDITIONS OF BID

- The bidder shall ensure that deputed personnel are trained and experienced for jobs as defined in scope of work for ensuring the high quality and correctness of jobs and to be carried out in a highly professional, safe, and sound managerial manner.

2. Additional Requirements / Conditions for Consortium or Joint Venture (JV) bidders (2.1 to 2.11):

- 2.1)** For JV / Consortium, there shall be a lead bidder exclusively specified and has to propose their associate. Associate's role has to be clearly defined.
- 2.2)** A lead bidder shall submit only one bid for the tender. It or any member of JV shall not be a member either in individual capacity or as a member of another JV / consortium for the same tender.
- 2.3)** All bid documents have to be signed by JV/consortium parties jointly and shall submit as per eligibility and tender requirements.
- 2.4)** Number of members in a JV/ Consortium Firm shall not be more than **TWO**. JV/Consortium with Foreign companies is not allowed.
- 2.5)** Joint venture / Consortium agreement - as per format **Annexure-11** has to be executed between the JV/ Consortium members and shall be submitted by the JV/ Consortium Firm along with the bid documents.

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

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

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

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

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

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

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

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

8. The responder shall bear all costs associated with the preparation and submission of its bid and RECPDCL will in no case be responsible or liable for these costs, regardless of the conduct or the outcome of the tender process.
9. RECPDCL reserves the right to withdraw the work & get it completed at the risk & cost of the agency, if performance of the agency is unsatisfactory, to whom work has been awarded. Further, the said agency may be black-listed for a period of one year or more for participating in any of the bids invited by RECPDCL. Also, RECPDCL would be free to intimate such black-listing to various state/central utilities/ Ministry of Power/ State Governments/ Other agencies not to consider the said agency for any assignment including of the same on websites.
10. RECPDCL reserves the right to conduct reverse auction.
11. Bidder has to submit test certificates/reports as specified in technical specifications from IECQ / NABL accredited laboratory for relevant IEC / Equivalent BIS Standard or MNRE approved test centers as applicable.
12. In case of supply of any defect material or substandard material, the materials will be rejected & it will be the responsibility of the vendor for taking back & replacing the rejected materials at their own cost.
13. The supplied materials should be strictly as per specifications mentioned in this tender, otherwise the material would be liable for rejection.
14. Validity of Bid shall be 180 days from the last date of bid submission.
15. EMDs received late due to any reason including postal delay will not be considered.
16. Bidder's quoted rates should be firm and fixed. No price variation and escalation will be allowed.
17. Bids must be submitted in English language only.
18. Incomplete, telegraphic or conditional tenders are not accepted.
19. Canvassing in any manner is strictly prohibited. The same will lead to rejection of the submitted bid.
20. The last date of receipt of bids from agencies is 24.08.2018 at 17:00 Hrs. Original, Sealed EMD will only be accepted during office hours on working days through deposit in the tender box kept for the purpose at REC Power Distribution Corporation Ltd. (RECPDCL), 4th Floor, Kribhco Bhavan, A-10, Sector-1, Noida 201301, Gautam Budh Nagar, Uttar Pradesh (UP). EMDs received after due date & time will not be accepted.
21. If due to any reason, the due date is declared as a holiday, the tender will be opened on next working day at the same time.
22. Bidder has to submit Financial bid **strictly through online mode ONLY** through tender wizard website.

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

Section- 7

BID EVALUATION METHODOLOGY & ALLOCATION OF QUANTITY

1. OPENING AND EVALUATION OF TECHNICAL BID:

Opening of technical bids will be through online mode only.

- a. Bidders have to submit documents as per Section-III, Clause-C (Submission of Bid Documents).
- b. Bids duly submitted, will be opened on the date and time indicated in this document in the presence of bidders or their authorized representatives who desire to present. The bidders' representatives present there, shall sign a register evidencing their attendance.
- c. If due date of receipt / opening of bids happens to be a closed holiday, the bids would be received and opened on the next working day.
- d. REC PDCL reserves the right to postpone and/or extend the date of receipt/opening of Bids or to withdraw the Tender notice, without assigning any reason thereof. In any such cases, the bidders shall not be entitled to any form of compensation from the Company.
- e. RECPDCL will scrutinize the technical bid documents submitted by the bidders and shortlist the bidders who qualify based on eligibility criteria, terms and conditions, technical specifications of this tender document. RECPDCL reserves right to seek clarifications from the Bidders towards any non-conformity/ shortfall in the bid submitted by them which shall be replied by the Bidder within the given timeline as per discretion of RECPDCL.
- f. RECPDCL reserves right to assess the capacity & capability of all or any bidder(s) during evaluation process before award of work.
- g. After completion of technical evaluation process, RECPDCL will determine whether each bid is complete, and is substantially responsive to the Bidding Documents. For the purposes of this determination, a substantially responsive bid is one that conforms to all the terms, conditions, and specifications of the Bidding Documents without material deviations, exceptions, objections, conditionality or reservations etc.
- h. If a bid is not substantially responsive, it will be rejected by the RECPDCL and may not subsequently

be made responsive by the Bidder by correction of the non-conformity later on. The RECPDCL's determination of bid responsiveness will be based only on the contents of the bid submitted.

2. OPENING AND EVALUATION OF FINANCIAL BID:

Opening of financial bids will be through online mode only.

- a. Financial Bids of technically qualified bidders will be opened on the date and time indicated in this document in the presence of bidders or their authorized representatives who desire to be present.
- b. Price Bids (Financial Bids) of Bidders whose EMDs received in original (DD or BG) within due date/time will only be opened. Rest of the Financial bids without submission of requisite EMDs in original (DD or BG) within due date/time will not be opened.
- c. If due date of receipt of Financial Bids/ opening of Financial Bids happens to be a closed holiday, the bids would be received and opened on the next working day.
- d. 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.
- e. In case, a Bidder is not eligible for a package based on technical evaluation, though it has already submitted the financial bid for that package, such financial bid shall be considered rejected.
- f. Financial Bids shall be evaluated on the basis of total price inclusive of Freight & Insurance and all taxes & duties quoted as per Annexure-XIV package wise.
- g. RECPDCL may or may not conduct reverse auction.

3. ALLOCATION OF QUANTITY:

- a. Based on total price quoted by the bidders, RECPDCL shall arrange the bids in the ascending order i.e. L1, L2, L3, ___Ln (L1 being the lowest quote).
- b. Approx. 50% of the tentative quantity will be allocated to the L1 successful bidder.
- c. For further allocation, (after allocating the quantity to the L1 bidder) based on total price quoted by the bidders, RECPDCL shall arrange the bids in the ascending order i.e. L2, L3, L4 ___ and so on (L2 being the second lowest quote and so on) and allocate approx. 30% of the tentative quantity to L2 bidder & approx. 20% of the tentative quantity to L3 bidder subject to matching the L1 rate. In case, L2 bidder and/or L3 bidder do not match the L1 price in such case RECPDCL reserves right to call next lowest bidder(s) for allocation of remaining 30% / 20% quantities at L1 price.
- d. However, RECPDCL reserves right to select no. of successful bidders at its sole discretion as per requirement of the project.
- e. In case, certain quantity remains unallocated, it will mandatory to L1 bidder to supply such unallocated quantities at the rate quoted in financial bid.
- f. Quantities for each delivery location shall be proportionately distributed among all successful bidders as per allocation percentage.
- g. If the successful bidder(s), to whom Letter of Intent/Purchase 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 work to such successful bidder and allocate such quantity to other performing bidders in orderly/proportionate manner.

Section – 8

COMMERCIAL TERMS, CONDITIONS & OTHER PROVISIONS

1. PRICE:

- 1.1** Price should be quoted (Package wise) 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

insurance, transportation, delivery, warranty of Solar Home Lighting 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 Arunachal Pradesh 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 Arunachal Pradesh 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 Contract 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 Rupees)	Total No. of Rural HHs	State
PACKAGE 1	6,77,860	5398	Arunachal Pradesh
PACKAGE 2	5,64,520	--	

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

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

2.2 The initial validity of EMD shall be for a period of 180 days from the last date of bid submission. The validity of EMD shall have to be suitably extended, if necessary, on request by RECPDCL, without which the tender/work order(s) shall be rejected.

2.3 Request for adjustment of Earnest Money Deposit against any previous dues with RECPDCL will not be considered.

2.4 EMD will be refunded to the unsuccessful bidders within 30 days after finalization of the tender without any interest.

2.5 EMD of successful bidder will be returned after acceptance of Allocation Letter issued by RECPDCL and submission of required PBG within 15 days from the date of such acceptance.

2.6 Exemption for payment of EMD amount will be given to Micro, Small & Medium Enterprises (MSMEs) registered with National Small Industries Corporation Ltd. (NSIC) or any other body specified by Ministry of MSME. However, relevant valid document / Certificate from NSIC or any other body specified by Ministry of MSME need to be submitted without which bidders are not entitled for any kind of exemption.

2.7 EMD shall be forfeited without prejudice to the bidder being liable for any further consequential loss or damage incurred to RECPDCL under following circumstances:

- a. Hundred percent (100%) of EMD amount, if a Bidder withdraws/revokes or cancels or unilaterally varies his bid in any manner during the period of bid validity specified in the tender document.
- b. Hundred percent (100%) of EMD amount, if the Successful Bidder fails to unconditionally accept the Allocation Letter/Work Order(s) issued by RECPDCL within 7 days from the date of such Allocation Letter/Work Order(s).
- c. Hundred percent (100%) of EMD amount, if the Successful Bidder fails to furnish PBG as specified in the tender document.

3. ADVANCE BANK GUARANTEE (ABG):

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

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

4. PERFORMANCE BANK GUARANTEE (PBG):

Upon receipt of unconditional acceptance of LOA, detailed proforma invoice of contractor, bidder must deposit Performance Bank Guarantee (PBG) fees @ **10%** of the Work Order value to RECPDCL as per format **Annexure- 14 (a) or Annexure- 14 (b) - as per applicable** with validity 5 years 2 months plus three months claim period (Note: 5 years warranty period, 2 months supply period). PBG will be refunded after the completion of the 5-year warranty period, 3 months claim period post successful

completion of awarded contract. If supply period exceeds more than 2 months, accordingly bidder has to extend PBG provided RECPDCL has given the extension for procurement.

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 to the satisfaction of RECPDCL within sanctioned period, PBG amount submitted shall be forfeited.

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

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

7. QUANTITY:

The quantity of all Solar Home lighting Standalone systems / items given in the Financial Bids (Annexure-7(a) & Annexure-7(b)) are provisional.

PACKAGE 1: Quantity of Solar Home lighting Standalone systems requirement may vary up to + / - 20%.

PACKAGE 2: RECPDCL reserves the right to vary the quantities of items as mentioned in the financial bid up to +/- 20% of the contract price at same rate, term & conditions. However, quantities of individual items can vary up to any extent.

The Contractor shall be responsible for supply of such revised quantities for completion of the project and they shall be paid for such revised quantity as per the rates quoted in the Financial Bid.

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

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

9. LIQUIDATED DAMAGES: For the delay in supply of materials, the Liquidated Damages (LD) @ 1% of the contract value per week or part thereof subject to the maximum of 10% of the contract value shall be deducted from bill of the successful bidder(s). Once the maximum is reached (i.e., 10 weeks of delay) the Work Order would be cancelled and the performance bank guarantee deposit would be forfeited.

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

11. PAYMENT TERMS:

Milestone No.	Milestone	Requisites	% payment
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1	<p>Advance Payment</p> <p>(On request of supplier, interest bearing adjustable initial advance of 10% shall be released to successful bidder. The annual interest rate shall be calculated based on SBI Base Rate as applicable from time to time.)</p>	<p>Requisites:</p> <ol style="list-style-type: none"> 1. Submission of unconditional acceptance of LOA 2. Unconditional & irrevocable Advance Bank Guarantee as per Annexure-VII with a validity up to sanctioned delivery period plus 3 months' claim period in favour of RECPDCL amounting to 110% of total advance amount 3. Unconditional & irrevocable Performance Bank Guarantee (PBG) as per Annexure-VIII for ten percent (10%) of the total Contract price towards Contract Performance with a validity till completion of 5 years 2 months period plus 3 months claim period. 	<p>10% of the total value of the supply portion (i.e. exclusive of Freight & Insurance and GST) within 5 working days from receipt of eligible invoice along with necessary documents.</p>
2	<p>Dispatch of material from manufacturer's premises after receiving dispatch clearance from RECPDCL</p>	<p>Requisites:</p> <ol style="list-style-type: none"> 1. Submission of documents except for Advance Bank Guarantee as indicated in milestone-1. 2. Tax invoice 3. Material Dispatch Clearance Certificate 4. Evidence of dispatch (GR/LR copy) 5. Packing list identifying contents of each shipment 6. Copy of insurance 7. Warranty Certificate <p>If supplier has opted for advance, the same shall be adjusted proportionately while making payments of this installment. Also, up-to-date accrued interest shall also be recovered.</p>	<p>30% of value of materials dispatched including cost of supply plus GST but excluding freight & Insurance within 5 working days from receipt of eligible invoice along with necessary documents.</p>
3	<p>Receipt and acceptance of Materials at designated store</p>	<p>Requisites:</p> <ol style="list-style-type: none"> 1. Tax invoice 2. Material Receipt Note (MRN)/ Material handing over certificate duly signed by authorized representative of supplier, RECPDCL and APEDA/Executing Agency appointed by RECPDCL. 	<p>60% of value of materials supplied including cost of supply plus GST and 100% freight & Insurance charges and GST within 5 working days from receipt of eligible invoice along with necessary documents.</p>
4	<p>After completion of ONE month from the date of delivery of Materials at designated store</p>	<p>Requisites:</p> <ol style="list-style-type: none"> 1. Tax invoice 2. No adverse remark from APEDA/Executing Agency appointed by RECPDCL for the supplied materials 	<p>10% of value of materials supplied including cost of supply plus GST within 5 working days from receipt of eligible invoice along with necessary documents.</p>
			100%

Note: Successful bidder shall raise fortnightly invoice for the completed milestone to RECPDCL.

12. FORCE MAJEURE: Force majeure shall mean any cause, existing or future, which is beyond the reasonable control of Bidder or RECPDCL including, but not limited to, acts of God, storm, fire, floods, explosion, epidemics, quarantine, earthquake, strike, riot, lock out, embargo, interference by civil or military authorities, acts, regulations or orders of any governmental authority in their sovereign capacity, acts of war (declared or undeclared) including any acts of terrorism, and all other such acts of similar or analogous nature (where all such acts to be collectively referred to as "Force Majeure"). RECPDCL and Bidder shall not be liable for the failure to perform any obligation in terms of this Proposal if and to such extent such failure is caused by a Force Majeure, provided that none of such acts of Force Majeure will relieve the Customer from meeting its payment obligations.

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

14. DISPUTE:

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

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

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

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

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

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

15. WARRANTY:

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

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

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

16. SIGNING OF CONTRACT AGREEMENT:

(a) Finally selected firm will submit the sealed copy of the purchase / work order signed on each page on behalf of the firm as token of acceptance to execute the work as per the terms and conditions laid down in this tender document and Work Order - within 2 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 within 10 days from release of Work Order.

Annexure - 1

TECHNICAL SPECIFICATIONS - Solar Home Lighting Standalone Systems

PACKAGE-1

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

Technical Specifications should be as per Saubhagya Scheme / MNRE specifications

PV MODULE (S)

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

BATTERY

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

LIGHT SOURCE

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

ELECTRONICS

- I. The total electronic efficiency should be at least 85%.

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

ELECTRONIC PROTECTIONS

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

MECHANICAL COMPONENTS

- I. Corrosion resistant frame structure should be provided to hold the SPV module.
- II. The frame structure should have provision to adjust its angle of inclination to the horizontal, so that it can be installed at the specified tilt angle.
- III. Light source should be either for wall mounted or ceiling mounted or can be hung from the ceiling in a stable manner, as per site requirements.
- IV. A vented plastic/ wooden/ metallic box with acid proof corrosion resistant paint for housing the storage battery indoors should be provided.

INDICATORS

- I. The system should have two indicators, green and red.
- II. The green indicator should indicate the charging under progress and should glow only when the charging is taking place. It should stop glowing when the battery is fully charged.
- III. Red indicator should indicate the battery ' Load Cut Off' condition

QUALITY AND WARRANTY

- I. The Solar home system including Battery will be warranted for a period of five years from the date of supply.
- II. The PV module(s) will be warranted for a minimum period of 25 years from the date of supply. PV modules used in Solar Home lighting System must be warranted for their output peak watt capacity, which should not be less than 90% at the end of Ten (10) years and 80% at the end of Twenty five (25) years.
- III. The Warranty Card to be supplied with the system must contain the details of the system. The manufacturers can also provide additional information about the system and conditions of warranty as necessary.

OPERATION and MAINTENANCE MANUAL

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

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

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

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

B. Assets Identification under Saubhagya Scheme:

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

PACKAGE-2

1. 300Wp SPV Module:

- A. Indigenously manufactured PV modules should only be used.
- B. The PV modules should be made up of crystalline silicon solar cells and must have a certificate of testing conforming to IEC 61215 Edition II / BIS 14286, IEC 61730-I and IEC 61730-II from an NABL or IECQ accredited Laboratory.
- C. The module efficiency should not be less than 14%.
- D. The terminal box on the module should have a provision for opening, for replacing the cable, if required.
- E. The module should contain the following details laminated inside the module:
 - Name of the Manufacturer or Distinctive Logo.
 - Model Number
 - Serial Number
 - Year of manufacture
 - RF tag containing information a to d above
- F. A distinctive serial number starting with DDUGJY will be engraved on the frame of the module or screen printed on the teller sheet of the module.
- G. Mounting frame on the pole with proper fixing such that it should not be get damaged due to sever 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 Arunachal Pradesh.

- 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 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.

Solar Inverter with 24V, 300VA, Pure Sine wave (THD<5%), Output Single phase 230VAC sine wave, 2 Nos. output sockets of 1- Phase 230V AC Sine wave, one for Mobile charging/Radio operation and other one for TV/Laptop.

3. Battery:

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

- 4. Mounting Pole for SPV Module:** 40 NB - Class B - MS Galvanized/Aluminum Anodized – 2.5 Mtr. Height above Ground Level). Minimum depth of Pole below Ground Level should be 500 mm. Foundation for pole should be PCC with 1:2:4 ratio (M16 Concrete). The minimum height of foundation should be 450mm.

5. Load:

- A. 5 Nos. 24V, 6W DC W-LED Bulbs having Color Temp. 5500°K-6500°K
- B. 1 No. 24V, 20W BLDC Fan along with DC socket for the same
- C. 2 No. 230VAC sockets for TV/ Laptop & Mobile Charging
- D. 1 No. DC Socket for TV (25W Max)

6. Cable & Accessories:

- A. Cable 2C, 4 sq. mm max. 25 mtr per household as per IS 694
- B. Cable 2C, 1.5 sq. mm max. 15 mtr per household as per IS 694
- C. All required Thimbles, ferrule, lugs, PVC Conduit pipe, Cable Ties etc.
- D. Any other item as per requirement of work.

7. Electronics:

- A. Maximum Power Point Tracker (MPPT) must be provided in the System.
- B. Overall total Efficiency of the Electronics should be Minimum 85%.
- C. Electronics should have temperature compensation for proper charging of the battery throughout the year.
- D. Inverter should be with "THD" less than 5% and Efficiency more than 90%.
- E. Necessary lengths of wires / cables, switches and fuses should be provided.
- F. The system should have separate ports for connecting each load along with a charging port for mobile and laptop.
- G. 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.
- H. The PCB containing the electronics should be capable of solder free installation and replacement.
- I. Necessary lengths of wires/cables, switches suitable for DC use and fuses should be provided.
- J. The inverter output AC voltage should not change with the decreased battery voltage in the operating voltage range of the battery.
- K. Inverter must have current limiting facility for the load exceeding 100Watts.

8. Electronic Protections:

- A. Adequate protection is to be incorporated under "No Load" condition.
- B. The system should have protection against battery overcharge and deep discharge condition.
- C. Load reconnect after low battery disconnect should be provided at 80% of the battery capacity status.
- D. Adequate protection should be provided against battery reverse polarity.
- E. Fuses should be provided to protect against short circuit conditions.
- F. Protection for reverse flow of current through the PV module(s) should be provided.

9. Indicators:

- A. The system should have two indicators, green and red.
- B. 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.
- C. Red indicator should indicate the battery "Load Cut Off" condition.

10. Mechanical Components:

- A. A corrosion resistant metallic frame structure should be fixed on the pole to hold the SPV module.
- B. The frame structure should have provision so that the module can be oriented at the suitable tilt angle.
- C. 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.

11. System Losses: System losses should be as per 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. Online Monitoring System for Solar Home Power Pack:

The controller shall have an internal data logging mechanism that reads and stores data/measurements pertaining to system operations. This stored data can be read via Bluetooth

using a compatible Android device installed with the data reader app software. The data collected by the device then to be sent via internet to a data monitoring server.

In order to remotely access and monitor data from installations, the following are needed:

- i. Android device: A compatible Android device with Bluetooth support/ USB connectivity and Internet connectivity is used to wirelessly read the data from the controller and send this data via the Internet to the data server
- ii. Android Data Reader app: The Data Reader Android app shall be installed on the Android device. It is this software that enables reading of data from the controller, viewing data readings on the device and sending this data to the data server.
- iii. PC/Laptop: A laptop/PC with a working Internet connection is used to access the Data Monitoring Portal (URL) in order to view the data pertaining to various remote installations. This URL displays the data in the form of charts and graphs so it is easy for the user to interpret and analyse the same.

It shall log the data parameters/measurements pertaining to system operations like daily energy consumption, power availability/consumption and state of charge of battery and voltage/current for solar, grid, battery and load. The controller can also wirelessly interface via Bluetooth with any compatible device.

In order to read/access the data logged by the controller, a compatible Android device is used. On this device (smartphone or tablet), the Data Reader Android app is installed. Using this app, one can read the data readings from the controller via the Bluetooth interface or USB port. Once the data has been read by the app, one can view the readings on the device. These data readings show usage parameters and also indicate if the installation is running as expected.

Using the Data Reader app, one can also send the data read from the controller to data server via the internet. Once the data is available on this server, it can be viewed remotely on the Data Monitoring Portal / Mobile App.

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

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

Item System	Applicable BIS/Equivalent IEC Standard or MNRE Specifications	
	Standard Description	Standard Number
Solar PV Systems	Crystalline Silicon Terrestrial PV Module	IEC 61215 / IS14286 Test Certificates / Reports from IECQ / NABL accredited laboratory for relevant IEC / Equivalent BIS Standard. If IEC certificates are not available for small certificate from IEC/NABL accredited laboratory as per relevant standard for any of the higher wattage regular module shall be furnished. Further, the manufacturer should certify that the supplied module is

		also manufactured using same material design and process similar to that of certified PV Module
Charge Controller/ MPPT Units & Protections		IEC 62093 Equivalent BIS Standard or as per MNRE Specifications
Storage Batteries	LiFePO4 Lithium battery for Package 1	UL 1642 / BS EN 60086-4:1996, IEC 60086-4:1996 etc.
	Tubular flooded lead acid/VRLA for Package-2	IS 8320
Cables	General Test and Measuring Method	IEC 60189
	PVC Insulated Cables for working voltage upto and including 1100 V	IS 694/IS 1554
	UV resistant for outdoor installation	IS/IEC 69947
Junction Boxes/ Enclosures for charge controllers/ LED	General Requirements Lamps Luminary Cycle Life Driver Performance	IEC 62208 IP21 LM-80-08 LM 79-08 LM 70 IEC 62384 Or as per MNRE Specification

Annexure – 2
Letter for Submission of Bid

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

To,

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

Sub.: Engagement of Service Agency

Dear Sir,

1. We wish to apply for Bid against RECPDCL's Tender no: RECPDCL/SOLAR/ANP/2018-19/
/..... dated:for

Package-1

“Design, Engineering, Manufacture, Testing, Supply, Insurance, Transportation, Delivery (FOR basis) of 5398 nos. of Solar Home Lighting Standalone Systems each of capacity 300Wp for electrification of Off-Grid villages in Arunachal Pradesh in Arunachal Pradesh under SAUBHAGYA Scheme” as per the requirements of RECPDCL.

Package-2

“Design, Engineering, Manufacture, Testing, Supply, Insurance, Transportation, delivery (FOR basis) of items of 300Wp Solar Home Lighting Standalone systems for electrification of Off-Grid villages in Arunachal Pradesh under Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)” as per the requirements of RECPDCL.

(Tick the appropriate package)

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)

GENERAL DETAILS

1. Name of Company : _____
2. Name : _____
3. Regd. Address :
 - a) Address of Office : _____

 - b) Contact Person's
 - i. Name & Design.: _____
 - ii. Address : _____

 - iii. Tel No. Landline Mobile: _____
 - iv. Email ID : _____
4. Type of Firm (Please tick): Private Ltd. / Public Ltd./ any other
5. PAN No. : _____
6. GST Tax Reg. Certificate No.: _____
7. E.M.D. Details :
Rs. _____
DD No. _____
Name & Address of Bank: _____

Signature.....

Full Name.....

Designation.....

Address.....

Annexure – 4 (a)
BID BANK GUARANTEE (EARNEST MONEY) FORMAT

This deed of Guarantee made on this day of 2018 by
.....

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

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

AND WHEREAS M/s
.....

..... **(Name of Tenderer)** having its office at
..... (hereinafter called the "Tenderer"), has/have
in response to aforesaid tender notice offered to supply/ do the job "**Design, Engineering, Manufacture,
Testing, Supply, Insurance, Transportation, Delivery (FOR basis) of 5398 nos. of Solar Home Lighting
Standalone Systems each of capacity 300Wp for electrification of Off-Grid villages in Arunachal Pradesh
in Arunachal Pradesh under SAUBHAGYA Scheme**" as contained in the tender.

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

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

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

We further agree as follows:-

1. That RECPDCL may without affecting this guarantee extend the period of validity of the said Tender or
grant other indulgence to or negotiate further with the Tender in regard to the conditions contained in
the said tender or thereby modify these conditions or add thereto any further conditions as may be

mutually agreed to in between RECPDCL and the Tender AND the said Bank shall not be released from its liability under these presents by an exercise by RECPDCL of its liberty with reference to the matters aforesaid or by reason of time being given to the Tender or any other forbearance, act or omission on the part of the RECPDCL or any indulgence by RECPDCL to the said Tender or any other matter or thing whatsoever.

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

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

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

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

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

Annexure – 4 (b)
BID BANK GUARANTEE (EARNEST MONEY) FORMAT

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

WHEREAS RECPDCL has invited tender vide their Tender Notice No:
..... Dated to be opened on
AND WHEREAS M/s
..... **(Name of Tenderer)** having its office at
..... (hereinafter called the "Tenderer"), has/have
in response to aforesaid tender notice offered to supply/ do the job "**Design, Engineering, Manufacture,
Testing, Supply, Insurance, Transportation, delivery (FOR basis) of items of 300Wp Solar Home Lighting
Standalone systems for electrification of Off-Grid villages in Arunachal Pradesh under Deen Dayal
Upadhyaya Gram Jyoti Yojana (DDUGJY)**" 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

FORMAT FOR EVIDENCE OF ACCESS TO OR AVAILABILITY OF CREDIT/FACILITIES

BANK CERTIFICATE

This is to certify that M/s _____ (insert Name & Address of the Bidder) _____, who have submitted their bid to REC Power Distribution Company Limited, Noida against NIT No. _____, is our customer for the past _____ years.

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

S. No.	Type of Facility	Sanctioned Limit as on Date	Utilization as on Date

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

Signature _____

Name of Bank _____

Name of Authorised Signatory _____

Designation _____

Phone No. _____

Address _____

SEAL OF THE BANK

Annexure – 6

Technical Bid

(To be submitted through Online)

PACKAGE-1

“Design, Engineering, Manufacture, Testing, Supply, Insurance, Transportation, Delivery (FOR basis) of 5398 nos. of Solar Home Lighting Standalone Systems each of capacity 300Wp for electrification of Off-Grid villages in Arunachal Pradesh in Arunachal Pradesh under SAUBHAGYA Scheme”

We confirm the following are the technical specifications of Items that will be supplied:

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

(AUTHORIZED SIGNATORY)

NAME:

SEAL:

Note:

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

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

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

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

Charge Controller: Sukam / Luminous or any higher quality

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

LiFePo4 Battery: any higher quality

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

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

PACKAGE-2

“Design, Engineering, Manufacture, Testing, Supply, Insurance, Transportation, delivery (FOR basis) of items of 300Wp Solar Home Lighting Standalone systems for electrification of Off-Grid villages in Arunachal Pradesh under Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)”

We confirm the following are the technical specifications of Items that will be supplied:

Sl. No.	Item	Specification	Make	Model	Unit	Quantity
1	Solar PV Crystalline Module 300 Wp					
2	Pole 3 meter, 40NB, class-B with Module Mounting Structure					
3	Battery 12V, 75 Ah (Tubular Gel type) with box					
4	24V 10 A MPPT Charge Controller cum Inverter 240V, 50 Hz Sine wave					
5	BLDC Fan 24V, 20 Watts					
6	DC LED Bulbs 6 Watt (with E 27 type base)					
7	Cable					

(AUTHORIZED SIGNATORY)

NAME:

SEAL:

Note:

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

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

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

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

Charge Controller cum inverter: Sukam / Luminous or any higher quality

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

LiFePo4 Battery: any higher quality

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

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

Annexure – 7 (a)

Financial Bid

(To be submitted strictly through Online mode ONLY)

PACKAGE-1

Design, Engineering, Manufacture, Testing, Supply, Insurance, Transportation, Delivery (FOR basis) of 5398 nos. of Solar Home Lighting Standalone Systems each of capacity 300Wp for electrification of Off-Grid villages in Arunachal Pradesh in Arunachal Pradesh under SAUBHAGYA Scheme

NAME OF THE COMPANY									
Sl. No	Description of Item / Material	Quantity of Solar Home lighting systems in Nos.	Unit Price (in Rs.)	Total Price (in Rs.)	GST Percentage	GST Tax Amount (in Rs.)	Total Amount including GST (in Rs.)	Freight & Insurance (including taxes) (in Rs.)	Total Amount (including GST, Freight & Insurance) (in Rs.)
1	2	3	4	5=3*4	6	7=5*6	8=5+7	9	10=8+9
A	Supply								
1	Planning,Design,Engineering, Assembly,Manufacturing/Fabrication,Testing & Supply of Solar Power Packs with incidental services as per Tender specification	5398		₹ 0.00		₹ 0.00	₹ 0.00		₹ 0.00
	Sub Total (A)			₹ 0.00		₹ 0.00	₹ 0.00	₹ 0.00	₹ 0.00
B	Transportation & Delivery								
1	Inland Transportation including Loading,Unloading,Insurance,Transfer to site & Other Costs Incidental for Deleivery	5398		₹ 0.00		₹ 0.00	₹ 0.00		₹ 0.00
	Sub Total (B)			₹ -		₹ -	₹ -	₹ -	₹ -
	Grand Total (A+B)			₹ -		₹ -	₹ -	₹ -	₹ -

Total (in Figures) ₹ -

Note:

1. Price should be quoted which must be inclusive of all costs involved in the project i.e. Design, Engineering, Manufacture, Testing, Supply, Insurance, Transportation, delivery (FOR basis) of 5398 nos. of Solar Home Lighting Standalone systems each of capacity 300Wp for implementation of electrification (Off Grid) in Arunachal Pradesh under Saubhagya Scheme including applicable GST tax rates.
2. If it is found that the tax quoted is higher than the applicable tax, in that case applicable taxes will only be paid by RECPDCL and if the tax quoted is lower than the applicable tax, in that case only the quoted taxes will be paid by the RECPDCL. However, bidder will submit bill as per GST compliant provision.
3. It shall be assumed that taxes other than GST, if any, are already included in the ex-works price of materials.
4. All taxes as per Income Tax & GST rules of Government of India and Government of Arunachal Pradesh will be payable by the Bidder.
5. TDS/Labour cess will be deducted from the payment of the Bidder as per the prevalent laws and rules of Government of India and Government of Arunachal Pradesh as the case may be.
6. Price quoted by the bidder shall remain firm & fixed and shall be binding on the Successful Bidder till completion of Comprehensive Maintenance period irrespective of actual cost of execution of the project. No escalation will be granted on any reason whatsoever. The bidder shall not be entitled to claim any additional charges, even though it may be necessary to extend the completion period for any reasons whatsoever.
7. The offer must be kept valid for a period of 180 days from the last date of bid submission. No escalation clause would be accepted. The validity can be further extended with mutual consent.

8. Bids with non-conformity to above will be considered as non-responsive.
9. Contractor shall ensure timely submission of invoice(s) as per rules/regulations of GST with all required supporting document(s) within a period specified in Contracts/LOA to enable RECPDCL to avail input tax credit. Further, returns and details required to be filled under GST laws & rules should be timely filed by supplier with requisite details.
10. Supplier/Contractor would promptly pay GST, as per law, for the supplies made to RECPDCL and would upload returns within the prescribed time to enable RECPDCL, to avail the input tax credit.
11. All necessary adjustment vouchers such as Credit Notes / Debit Notes for any short/excess supplies or revision in prices or for any other reason under the Contract shall be submitted to RECPDCL, as per GST provisions.
12. In the event of default on his part in payment of tax and submission / uploading of monthly returns, RECPDCL is well within its powers to withhold payments, especially the tax portion, until Vendor/Supplier/Contractor corrects the default and / or complies with the requirements of GST and produces satisfactory evidence to that effect.

Annexure – 7 (b)

Financial Bid

(To be submitted strictly through Online mode ONLY)

PACKAGE-2

Design, Engineering, Manufacture, Testing, Supply, Insurance, Transportation, delivery (FOR basis) of items of 300Wp Solar Home Lighting Standalone systems for electrification of Off-Grid villages in Arunachal Pradesh under Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

Name of the Company										
S. No.	Item Description	Unit	Quantity	Per Unit Rate (in Rs.)	Total Amount without GST (in Rs.)	GST Percent age	GST Amount (in Rs.)	Total Amount including GST (in Rs.)	Freight & Insurance (including taxes) (in Rs.)	Total Amount (including GST, Freight & Insurance) (in Rs.)
A	B	C	D	E	F = D x E	G	H = F x G	I = F + H	J	K = I + J
1	Solar PV Crystalline Module 300 Wp	Nos.	2035		0		0	0		0
2	Pole 3 meter, 40NB, class-B	Nos.	635		0		0	0		0
3	Module Mounting Structure (MMS)	Nos.	1212		0		0	0		0
4	Canopy (for fixing module mounting structure over pole)	Nos.	695		0		0	0		0
5	Battery 12V, 75 Ah (Tubular Gel type)	Nos.	7771		0		0	0		0
6	Battery Box	Nos.	1497		0		0	0		0
7	24V 10 A MPPT Charge Controller cum Inverter 240V, 50 Hz Sine wave (with 2 Nos. AC Plug points for mobile charging & TV/Laptop, 7 Nos. DC output sockets for pin type jack)	Nos.	914		0		0	0		0
8	BLDC Fan 24V, 20 Watts	Nos.	1715		0		0	0		0
9	DC LED Bulbs 6 Watt (with E 27 type base)	Nos.	19559		0		0	0		0
10	Bulb Holder (E 27 Type)	Nos.	18133		0		0	0		0
11	Switch for DC LED Bulb (Hanging piano type)	Nos.	18288		0		0	0		0
12	Cable 2C x 4 sq. mm	Meter	3715		0		0	0		0
13	Cable 2C x 1.5 sq. mm	Meter	75440		0		0	0		0
14	MC4 connector	Set	3633		0		0	0		0
15	PVC Conduit pipe 20 mm dia. for household wiring (as per IS-9537 having ISI stamping)	Meter	99577		0		0	0		0
16	PVC bend - L Type dia. 20mm	Nos.	35930		0		0	0		0
17	PVC bend - T Type dia. 20mm JB 3 or 4 way	Nos.	11185		0		0	0		0
18	Cable Tie 200 mm x 4.8mm	Nos.	151200		0		0	0		0
19	I-Type/ Pin type thimble for connection at input and output terminals of Charge Controller.	Nos.	14178		0		0	0		0
20	Lugs 4 sq mm Cu ring type (8mm dia)	Nos.	9170		0		0	0		0
Sub-Total (in Rs.)										₹ 0.00
Grand Total in figure(in Rs.)								₹ 0.00		

Note:

1. Price should be quoted which must be inclusive of all costs involved in the project i.e. Design, Engineering, Manufacture, Testing, Supply, Insurance, Transportation, delivery (FOR basis) of items of Solar Home Lighting Standalone systems for electrification of Off-Grid villages in Arunachal Pradesh under Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY) including applicable GST tax rates.

2. If it is found that the tax quoted is higher than the applicable tax, in that case applicable taxes will only be paid by RECPDCL and if the tax quoted is lower than the applicable tax, in that case only the quoted taxes will be paid by the RECPDCL. However, bidder will submit bill as per GST compliant provision.
3. It shall be assumed that taxes other than GST, if any, are already included in the ex-works price of materials.
4. All taxes as per Income Tax & GST rules of Government of India and Government of Arunachal Pradesh will be payable by the Bidder.
5. TDS/Labour cess will be deducted from the payment of the Bidder as per the prevalent laws and rules of Government of India and Government of Arunachal Pradesh as the case may be.
6. Price quoted by the bidder shall remain firm & fixed and shall be binding on the Successful Bidder till completion of Comprehensive Maintenance period irrespective of actual cost of execution of the project. No escalation will be granted on any reason whatsoever. The bidder shall not be entitled to claim any additional charges, even though it may be necessary to extend the completion period for any reasons whatsoever.
7. The offer must be kept valid for a period of 180 days from the last date of bid submission. No escalation clause would be accepted. The validity can be further extended with mutual consent.
8. Bids with non-conformity to above will be considered as non-responsive.
9. Contractor shall ensure timely submission of invoice(s) as per rules/regulations of GST with all required supporting document(s) within a period specified in Contracts/LOA to enable RECPDCL to avail input tax credit. Further, returns and details required to be filled under GST laws & rules should be timely filed by supplier with requisite details.
10. Supplier/Contractor would promptly pay GST, as per law, for the supplies made to RECPDCL and would upload returns within the prescribed time to enable RECPDCL, to avail the input tax credit.
11. All necessary adjustment vouchers such as Credit Notes / Debit Notes for any short/excess supplies or revision in prices or for any other reason under the Contract shall be submitted to RECPDCL, as per GST provisions.
12. In the event of default on his part in payment of tax and submission / uploading of monthly returns, RECPDCL is well within its powers to withhold payments, especially the tax portion, until Vendor/Supplier/Contractor corrects the default and / or complies with the requirements of GST and produces satisfactory evidence to that effect.

Annexure – 8 (a)

PACKAGE-1

PERT Chart for Design, Engineering, Manufacture, Testing, Supply, Insurance, Transportation, Delivery (FOR basis) of 5398 nos. of Solar Home Lighting Standalone Systems each of capacity 300Wp for electrification of Off-Grid villages in Arunachal Pradesh in Arunachal Pradesh under SAUBHAGYA Scheme

Sl. No.	Activity	TIME IN DAYS	START DATE	END DATE	CUMULATIVE TIME SCHEDULE (from Zero date of project)
1	Submission of GTP, drawings				
2	GTP, drawings approval				
3	Material ordering				
A	Solar PV Module 2X150 Wp				
B	Module Mounting Structure (MMS)				
C	Charge Controller 12V, 10A with MPPT				
D	Battery Lithium Ferro Phosphate 12.8 V, 75 Ah (approx 1000 Wh)				
E	W-LED Luminaire 6 Watt				
F	BLDC (Brushless DC) Fan 20 Watt				
G	Cables& Accessories				
H	Pole 3 Mtr 40NB Medium (B-class) as per IS:1239 (Part-1)-2004				
4	PDI				
A	Solar PV Module 2X150 Wp				
B	Module Mounting Structure (MMS)				
C	Charge Controller 12V, 10A with MPPT				
D	Battery Lithium Ferro Phosphate 12.8 V, 75 Ah (approx 1000 Wh)				
E	W-LED Luminaire 6 Watt				
F	BLDC (Brushless DC) Fan 20 Watt				
G	Cables& Accessories				
H	Pole 3 Mtr 40NB Medium (B-class) as per IS:1239 (Part-1)-2004				
5	Material despatch				
A	Solar PV Module 2X150 Wp				
B	Module Mounting Structure (MMS)				
C	Charge Controller 12V, 10A with MPPT				
D	Battery Lithium Ferro Phosphate 12.8 V, 75 Ah (approx 1000 Wh)				
E	W-LED Luminaire 6 Watt				

F	BLDC (Brushless DC) Fan 20 Watt				
G	Cables& Accessories				
H	Pole 3 Mtr 40NB Medium (B-class) as per IS:1239 (Part-1)-2004				
6	Material receipt at stores				
A	Solar PV Module 2X150 Wp				
B	Module Mounting Structure (MMS)				
C	Charge Controller 12V, 10A with MPPT				
D	Battery Lithium Ferro Phosphate 12.8 V, 75 Ah (approx 1000 Wh)				
E	W-LED Luminaire 6 Watt				
F	BLDC (Brushless DC) Fan 20 Watt				
G	Cables& Accessories				
H	Pole 3 Mtr 40NB Medium (B-class) as per IS:1239 (Part-1)-2004				

Annexure – 8 (b)

PACKAGE-2

PERT Chart for Design, Engineering, Manufacture, Testing, Supply, Insurance, Transportation, delivery (FOR basis) of items of 300Wp Solar Home Lighting Standalone systems for electrification of Off-Grid villages in Arunachal Pradesh under Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

Sl. No.	Activity	TIME IN DAYS	START DATE	END DATE	CUMULATIVE TIME SCHEDULE (from Zero date of project)
1	Submission of GTP, drawings				
2	GTP, drawings approval				
3	Material ordering				
A	Solar PV Crystalline Module 300 Wp				
B	Pole 3 meter, 40NB, class-B with Module Mounting Structure				
C	Battery 12V, 75 Ah (Tubular Gel type) with box				
D	24V 10 A MPPT Charge Controller cum Inverter 240V, 50 Hz Sine wave				
E	BLDC Fan 24V, 20 Watts				
F	DC LED Bulbs 6 Watt (with E 27 type base)				
G	Cable & accessories				
4	PDI				
A	Solar PV Crystalline Module 300 Wp				
B	Pole 3 meter, 40NB, class-B with Module Mounting Structure				
C	Battery 12V, 75 Ah (Tubular Gel type) with box				
D	24V 10 A MPPT Charge Controller cum Inverter 240V, 50 Hz Sine wave				
E	BLDC Fan 24V, 20 Watts				
F	DC LED Bulbs 6 Watt (with E 27 type base)				
G	Cable & accessories				
5	Material despatch				
A	Solar PV Crystalline Module 300 Wp				
B	Pole 3 meter, 40NB, class-B with Module Mounting Structure				
C	Battery 12V, 75 Ah (Tubular Gel type) with				

	box				
D	24V 10 A MPPT Charge Controller cum Inverter 240V, 50 Hz Sine wave				
E	BLDC Fan 24V, 20 Watts				
F	DC LED Bulbs 6 Watt (with E 27 type base)				
G	Cable & accessories				
6	Material receipt at stores				
A	Solar PV Crystalline Module 300 Wp				
B	Pole 3 meter, 40NB, class-B with Module Mounting Structure				
C	Battery 12V, 75 Ah (Tubular Gel type) with box				
D	24V 10 A MPPT Charge Controller cum Inverter 240V, 50 Hz Sine wave				
E	BLDC Fan 24V, 20 Watts				
F	DC LED Bulbs 6 Watt (with E 27 type base)				
G	Cable & accessories				

Annexure - 9

ACCEPTANCE FORM FOR PARTICIPATION IN REVERSE AUCTION EVENT

For both the Packages

(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-10

UNDERTAKING TOWARDS NOT BEING BLACK-LISTED

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

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

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

(Signature of Authorized Signatory)

Name*:

Designation*:

Seal:

* Please provide the name and designation of each signatory.

UNDERTAKING TOWARDS NOT BEING BLACK-LISTED

(For Consortium/Joint Venture Firm)

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

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

(Authorized Signatory of Lead Member)

(Authorized Signatory of Consortium/JV Partner)

Name*:

Name*:

Designation*:

Designation*:

Seal & Sign:

Seal & Sign:

* Please provide the name and designation of each signatory.

Annexure-11

POWER OF ATTORNEY

(Letter of Authorization)

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

Know all men by these presents, we M/s _____ (Lead Member) with Head Office at _____, do hereby constitute, appoint and authorize **(Name) son/daughter/wife of(Name)**, resident of _____ presently employed with us and holding the position of _____ as our attorney, to do in our name and on behalf, all such acts, deeds and things necessary in connection with or incidental to REC Power Distribution Company Limited's (RECPDCL) Tender No.RECPDCL/SOLAR/ANP/2018-19/..... dated:for

Package-1

"Design, Engineering, Manufacture, Testing, Supply, Insurance, Transportation, Delivery (FOR basis) of 5398 nos. of Solar Home Lighting Standalone Systems each of capacity 300Wp for electrification of Off-Grid villages in Arunachal Pradesh in Arunachal Pradesh under SAUBHAGYA Scheme" as per the requirements of RECPDCL.

Package-2

"Design, Engineering, Manufacture, Testing, Supply, Insurance, Transportation, delivery (FOR basis) of items of 300Wp Solar Home Lighting Standalone systems for electrification of Off-Grid villages in Arunachal Pradesh under Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)" as per the requirements of RECPDCL.

(Tick the appropriate package you wish to apply)

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

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

(Authorized Signatory of participating agency/Lead Member)

Name:

Designation:

Seal & Sign:

I Accept

(Signature of Attorney)

Name:

Designation:

Seal & Sign:

NOTE:

Annexure-12

AGREEMENT FOR CONSORTIUM/JOINT VENTURE FIRM

(For Consortium/Joint Venture Firm)

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

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

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

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

Whereas RECPDCL has invited tender vide no: RECPDCL/SOLAR/ANP/2018-19/..... dated
for selection of agencies for

Package-1

“Design, Engineering, Manufacture, Testing, Supply, Insurance, Transportation, Delivery (FOR basis) of 5398 nos. of Solar Home Lighting Standalone Systems each of capacity 300Wp for electrification of Off-Grid villages in Arunachal Pradesh in Arunachal Pradesh under SAUBHAGYA Scheme” as per the requirements of RECPDCL.

Package-2

“Design, Engineering, Manufacture, Testing, Supply, Insurance, Transportation, delivery (FOR basis) of items of 300Wp Solar Home Lighting Standalone systems for electrification of Off-Grid villages in Arunachal Pradesh under Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)” as per the requirements of RECPDCL.

(Tick the appropriate package you wish to apply)

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

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

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

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

2. The Lead Member is hereby authorized to:

(i) Sign and submit the bid on behalf of Consortium/Joint Venture members pursuant to the bid initiated

(ii) In the event, the Consortium/Joint Venture Firm being empanelled with RECPDCL, to enter into any awarded Contract with RECPDCL, including negotiation of the terms thereof.

(iii) To receive all payments on behalf of the Consortium/Joint Venture Firm from RECPDCL.

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

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

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

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

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

(Party of the first part)

(Party of the second part)

Name*:

Name*:

Designation*:

Designation*:

Seal & Sign:

Seal & Sign:

Witness:

1.

2.

* Please provide the name and designation of each signatory.

Annexure – 13
INTEGRITY PACT

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

INTEGRITY PACT

Between

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

hereinafter referred to as

"RECPDCL",

and

[Insert the name of the Bidder]

having its Registered Office at _____
(Insert full Address)

Hereinafter referred to as

"The Bidder"

Preamble

RECPDCL intends to engage, under laid-down organisational procedures, agencies for

Package-1

“Design, Engineering, Manufacture, Testing, Supply, Insurance, Transportation, Delivery (FOR basis) of 5398 nos. of Solar Home Lighting Standalone Systems each of capacity 300Wp for electrification of Off-Grid villages in Arunachal Pradesh in Arunachal Pradesh under SAUBHAGYA Scheme” as per the requirements of RECPDCL.

Package-2

“Design, Engineering, Manufacture, Testing, Supply, Insurance, Transportation, delivery (FOR basis) of items of 300Wp Solar Home Lighting Standalone systems for electrification of Off-Grid villages in Arunachal Pradesh under Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)” as per the requirements of RECPDCL.

(Tick the appropriate package you wish to apply)

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

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

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

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

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

Section I - Commitments of RECPDCL

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

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

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

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

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

Section II - Commitments of the Bidder

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

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

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

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

- a) The Bidder will not, directly or through any other person or firm, offer, promise or give to RECPDCL, or to any of RECPDCL's employees involved in the tender process or the execution of the contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange an advantage during the tender process or the execution of the contract.
 - b) The Bidder will not enter into any illegal agreement or understanding, whether formal or informal with other Bidders. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or actions to restrict competitiveness or to introduce cartelization in the bidding process.
 - c) The Bidder will not commit any criminal offence under the relevant Anti-corruption Laws of India; further, the Bidder will not use for illegitimate purposes or for purposes of restrictive competition or personal gain, or pass on to others, any information provided by RECPDCL as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
 - d) The Bidder of foreign origin shall disclose the name and address of the Agents/representatives in India, if any, involved directly or indirectly in the Bidding. Similarly, the Bidder of Indian Nationality shall furnish the name and address of the foreign principals, if any, involved directly or indirectly in the Bidding.
 - e) The Bidder will, when presenting his bid, disclose any and all payments he has made, or committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract and/or with the execution of the contract.
 - f) The Bidder will not misrepresent facts or furnish false/forged documents/ information in order to influence the bidding process or the execution of the contract to the detriment of RECPDCL.
- (2) The Bidder will not instigate third persons to commit offences outlined above or be an accessory to such offences.

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

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

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

- (1) If the Bidder, before contract award, has committed a serious transgression through a violation of Section II or in any other form such as to put his reliability or credibility as Bidder into question, RECPDCL may disqualify the Bidder from the tender process or terminate the contract, if already signed, for such reason.

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

Section IV - Liability for violation of Integrity Pact

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

Section V- Previous Transgression

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

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

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

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

Section VI - Equal treatment to all Bidders

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

Section VII - Punitive Action against violating Bidders / Contractors

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

Section VIII - Pact Duration

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

Section IX - Other Provisions

- (1) This agreement is subject to Indian Law. Place of performance and jurisdiction is the establishment of RECPDCL. The Arbitration clause provided in the main tender document / contract shall not be applicable for any issue / dispute arising under Integrity Pact.
- (2) Changes and supplements as well as termination notices need to be made in writing.
- (3) Views expressed or suggestions/submissions made by the parties and the recommendations of the competent authority/CVO in respect of the violation of this agreement, shall not be relied on or introduced as evidence in the arbitral or judicial proceedings (arising out of the arbitral proceedings) by the parties in connection with the disputes/differences arising out of the subject contract.
- (4) Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.

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

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

(Office Seal)

(Office Seal)

Name: _____

Name: _____

Designation: _____

Designation: _____

Witness 1 : _____ Witness 1 : _____

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

Witness 2 : _____ Witness 2 : _____

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

Annexure –14 (a)
ADVANCE BANK GUARANTEE (ABG) FORMAT
PACKAGE-1

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 completion of contract plus 3 months claim period.

Annexure –14 (b)
ADVANCE BANK GUARANTEE (ABG) FORMAT
PACKAGE-2

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 completion of contract plus 3 months claim period.

Annexure – 15 (a)
PERFORMANCE BANK GUARANTEE (PBG) FORMAT
PACKAGE-1

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 2 months from the date of issue of LOI/LOA plus 3 months claim period.

Annexure – 15 (b)
PERFORMANCE BANK GUARANTEE (PBG) FORMAT
PACKAGE-2

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

OUR LETTER OF GUARANTEE NO.:

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

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

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

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

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

Authorized Signatory
Chief Manager/ Manager
Seal of Bank

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

Annexure-16

For Package-1

District / Village wise list of Solar Power packs to be procured - for electrification of Off-Grid villages in Arunachal Pradesh under SAUBHAGAYA Scheme.

Sl. No.	District	No. of Villages	No. of Solar Power Pack to be procured	FOR (Place where material to be supplied)
1	Kurung Kumey	22	171	Koloriang
2	Kra Daadi	13	232	Palin
3	Upper Subansiri	4	24	Daporijo
4	East Siang	1	25	Aalo
5	West Siang	2	123	
6	Dibang valley	7	16	Roing
7	Lower Dibang Valley	30	498	
8	Anjaw	3	16	Tezu
9	Lohit	1	24	
10	East Kameng	151	4164	Seppa
11	West Kameng	4	29	Bomdila
12	Tawang	1	1	
13	Upper Subansiri	10	75	Ziro
	Grand Total	249	5398	

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

For Package- 2

Materials for Package-2 shall be delivered at store located in Itanagar/Naharlagun maintained by executing agency of RECPDCL.