



RAJASTHAN RENEWABLE ENERGY CORPORATION LIMITED

TENDER DOCUMENT

FOR

THE WORK OF DESIGN, SUPPLY, INSTALLATION, COMMISSIONING

&

5 YEARS COMPREHENSIVE MAINTINANCE OF

“ WHITE LED (W-LED) BASED OFF-GRID

SOLAR HOME SYSTEMS”

FOR ELECTRIFICATION OF UE HHs in VILLAGES & DHANIES

UNDER

“SAUBHAGYA SCHEME”

DURING 2018-19

IN

RAJASTHAN.

NIT No: RREC/UE HHs Electrification/Off-grid SPV HLS/Saubhagya/18-19/02,
Dated: 01/8/2018.

Note : Tender document cost : Rs. 5000/-

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RAJASTHAN RENEWABLE ENERGY CORPORATION LIMITED

(Government of Rajasthan Undertaking)

E-166, Yudhisthir Marg, C-Scheme, Jaipur

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SECTION -A

GENERAL INSTRUCTIONS FOR TENDER SUBMISSION

**Tender No: RREC/UE HHs Electrification/Off-grid SPV HLS/Saubhagya/18-19/02,
Dated: 01/8/2018.**

This tender by RREC is for selection of vendors for the work of design, supply, installation, testing, commissioning and 5 Years comprehensive maintenance of stand alone off-grid SPV Home Lighting Systems in Rajasthan under “**Saubhagya Scheme**”.

NOTE:

- (i) This document is not transferable.
- (ii) Though adequate care has been taken while preparing the tender documents, the Bidder shall satisfy himself /herself that the document is complete in all respects. Intimation of any discrepancy shall be given to this office immediately. If no intimation is received from any Bidder within ten days from the date of issue of the bid documents, it shall be considered that the bid document is complete in all respects and has been received by the Bidder.
- (iii) The Rajasthan Renewable Energy Corporation Limited (RREC) may modify, amend or supplement this tender document in any form including Capacity Allocation.
- (iv) The selection of Bidders shall be carried out through e-procurement process only. Proposal/Bids are to be submitted online in electronic format on website <http://eproc.rajasthan.gov.in> as per tender document.
- (v) Please check RREC website and Public Procurement portal addressed “www.spp.rajasthan.gov.in” regularly for latest up-date after issue of this tender. All modifications/ amendments/clarifications/ information etc. shall be available on the website of RRECL www.energy.rajasthan.gov.in/rrecl, <http://eproc.rajasthan.gov.in> & www.spp.rajasthan.gov.in.
- (vi) RREC may at its discretion, extend the deadline for submission of the Proposals.

Brief schedule of Dates of Tender:

Programme & detail of work	Survey, Design, Supply, Installation, testing, Commissioning and 5 Years comprehensive maintenance of Off-grid SPV Home Lighting Systems in UE HHs in selected un-electrified villages/dhanies in different districts in Rajasthan under “ Saubhagya Scheme ” during year 2018-19.
Work Area:	Rajasthan.
NIT No:	NIT No: RREC/UE HHs Electrification/Off-grid SPV HLS/ Saubhagya/18-19/02, Dated: 01/08/2018.
Estimated Capacity of Project	1,60,000 Nos. Systems {Quantity may increase as per final list of UE Villages/Dhanies provided by the DISCOMs and available House Holds in listed UE villages & Dhanies}
Estimated Project Cost:	Rs. 640 Crores.
Earnest Money Deposit:	Rs. 82.00 Lakh
Date of downloading {The tender can be downloaded from website http://eproc.rajasthan.gov.in }	From 6/8/2018 at 02.00 p.m. to 5/9/2018, upto 5:00 p.m.
Date of Pre-bid meeting at Conference Hall of RREC :	13/8/2018 at 11.30 a.m.
Last Date of online submission of Tender	5/9/2018 upto 5:00 p.m.
Date of submission of Envelope-1 at RREC Head Office { in Hard Copy }	5/9/2018 upto 5:00 p.m.
Date of Opening of online Technical bid (Cover -1 & Cover-2)	7/9/2018 at 4:00 p.m.
Date of opening of Financial bid of eligible bidders (cover-3)	Shall be intimated after evaluation of Technical bid.
Date of Completion of work.	As per Section -7 of tender document.
Cost of Tender:	Rs. 5000/- in favour of MD, RREC payable at Jaipur.
e-proc Charges:	Rs.1000/- in favour of MD, RISL, payable at Jaipur.

NOTE: Proposals are to be submitted online in electronic format on website www.eproc.rajasthan.gov.in with scanned copies of all required documents. Documents regarding EMD, Tender Fee and RISL Charges to be submitted in physical form as detailed in point No.2 & 3 hereunder:

INSTRUCTIONS TO BIDDERS

1. The bidders are requested to submit their bids prior to last date of submission to avoid Non-submission of their bids up to prescribed date & time due to non-availability / hanging of website, at either ends, at last moment or any reason whatsoever. The last date of submission of bids will not be extended on such account.
2. The tender application Form (As per Annexure-6), tender cost, Earnest Money and e-tender processing fees of RISL, in Envelope-1 (in Physical FORM), is to be deposited in RREC office as per above time schedule. This is essential otherwise the Technical and financial bid in electronic form will not be opened of that bidder.

3. The bidder should have to deposit Fee Documents and other documents as required in

Envelope-1: i.e :

- (1) Tender application form (As per Annexure-6) ,
- (2) The DD/Banker's Cheque only of prescribed tender cost Rs. 5000/- in favour of **The Managing Director, RREC, payable at Jaipur,**
- (3) The DD/Banker's Cheque only of prescribed processing fee of Rs. 1000/- of RISL in favour of **The Managing Director, RajCOMP Info Services Ltd. (RISL), payable at Jaipur** and
- (4) EMD Rs. 82.00 laKhs by way of DD/Banker's Cheque/Bank Guranttee(valid for six months from last date of bid submission) in favour of **The Managing Director, RREC, payable at Jaipur;**
- (5) Certificate issued by competent authority for exemption of EMD deposition OR certificate of SSI unit of Rajasthan for relaxation in EMD amount as detailed here under :
All provisions regarding exemptions of EMD shall be as per provisions of RTPP Act and GF&AR of GoR will be applicable. Whereas it is described:

(i) Undertakings, corporations, autonomous bodies, registered societies, corporative societies which are controlled/ managed by Government, Government Undertakings and companies of Union Government and Government of Rajasthan.

(Under rule 57(2)(a)(i) of GF&AR–Part-II (FD Order No. F1(1)FD/GF&AR/93-II, Dated: 01/07/1996.)

Government undertakings PSUs are exempted for EMD deposition on producing certificate issued by competent authority.

(ii) As per RTPP Act 2013,Rule 42 (2) in case of open competitive bidding, two-stage bidding, rate contract, electronic reverse auction, bid security shall be 2% or as specified by the State Government of the estimated value of subject matter of procurement put to bid. **In case of SMALL SCALE INDUSTRIES OF RAJASTHAN it shall be 0.5%** of the quantity offered for supply and in case of sick industries, other than small scale industries, whose cases are pending with Board of Industrial and Financial Reconstruction, it shall be 1% of the value of Bid. Concessional bid security may be taken from registered bidders as specified by the State Government. Every bidder, if not exempted participating in the procurement process shall be required to furnish the bid security as specified in the tender document.

A Certificate of Registration under DIC's in Rajasthan should require to be submitted in proof of SSI unit of Rajasthan for getting benefit of exemption in EMD deposition.

The Tender cost, Earnest Money (Required documents for getting benefit of exemption as mentioned) and e-tender processing fees of RISL, in Envelope-1, is to be deposited at RREC Head Office up to 5.00 p.m on 05/9/2018. This is essential otherwise the bid in electronic form (Cover I, II &Cover III) will not be opened of that bidder.)

4. The Cover -1 will be opened on **07/9/2018 at 4.00 P.M.,** in the presence of bidders who wish to be present. Please note that in case scanned copies of tender application form, DD/Pay order (payable at Jaipur)/BG of requisite amount towards cost of tender, cost of processing fee of RISL, and requisite value towards Earnest Money is not found as per bid

document and as per Envelope-1, then the technical bids and financial bid in electronic form (Cover-2 & Cover-3) will not be opened of that Tenderer/bidder.

5. Cutting / overwriting if any in the figures of the tendered documents is required to be clarified / indicated in words, duly signed, failing which the tender may be rejected.
6. Deviation of any kind is "not" to be quoted in the bid. Such deviations shall not prevail.
7. The bidders should provide complete information at the time of submission of bid. If the bidders are asked to furnish some more clarification/confirmation/document, they shall be required to furnish the same within specified time, failing which the case shall be finalized /decided on the basis of available information/documents. The responsibility of ignorance of their bid on account of delay in furnishing of desired information/documents shall be of the bidder. However, if there are any shortcomings in the submission of the information which not materially affects the qualification criterion, then the Bid Evaluation Committee shall have the power to consider the facts on the merit of the case and decide the bid evaluation accordingly.
8. **All tender documents should essentially be signed digitally and submitted/uploaded on <http://eproc.rajasthan.gov.in> in time as per checklist.**
9. Bidders who wish to participate in this tender, will have to register on <http://eproc.rajasthan.gov.in> (bidders registered earlier on the eproc.rajasthan.gov.in, need not to get registered again). To participate in online tenders, Bidders will have to procure Digital Signature Certificate (Class II & Class III) as per requirement under Information Technology Act-2000 using which they can sign their electronic bids. Bidders can procure the same from any CCA approved certifying agency or they may contact e-Procurement Cell, Department of IT & C, Government of Rajasthan on the following address:-

Address: e-Procurement Cell, RISL, Yojana Bhawan, Tilak Marg, C-Scheme, Jaipur, e-mail: eproc@rajasthan.gov.in

10. Bidders are also advised to refer "Bidders Manual" available under "Downloads" section on <http://eproc.rajasthan.gov.in> for further details about the e-tendering process.
11. **All the required information shall be furnished strictly in the prescribed Formats only. Any information indicated other than the prescribed Formats shall not be entertained.** The bid shall be evaluated on the basis of information furnished in the prescribed Formats only.

12. CHECK LIST:

List of required Formats/documents to be submitted online duly signed digitally by Authorized Signatory:

- 1) **Cover-1:-** Up load the scanned copy of tender application form (As per Annexure-6), DD/Pay Order towards Cost of tender document, processing fee of RISL and EMD (DD/Pay Order/BG) [for Exemption in EMD, Copy of certificate issued by competent authority for exemption of EMD deposition OR certificate of SSI unit of Rajasthan for relaxation in EMD amount as required are to be scanned and submitted also (in .pdf)].
- 2) **Cover- 2: -** All Non-financial information in the Formats as per tender (in .pdf).
- 3) **Cover-3: -** Price bid as per Format attached. **(online only)**

NOTE:- The financial bid (Price bid) is to be submitted **as per format Annexure-4 (on-line only)**. This format is to be downloaded from <http://eproc.rajasthan.gov.in>, filled & uploaded back to <http://eproc.rajasthan.gov.in>. Bid may be rejected if look alike format (.xls) is created/ filled and uploaded on <http://eproc.rajasthan.gov.in>

13. Correspondence for enquiries and clarifications

All correspondence in respect of the tender and submission of the Tender shall be addressed to:

**The Managing Director,
Rajasthan Renewable Energy Corporation Ltd.,**
E-166, Yudhisthir Marg, C-Scheme,
Jaipur (Raj.), 302001, Tel: 0141-2225859 / 2229341/ 2229055
Fax: 0141-2226028 ,Email: rrec2016@gmail.com

Contact Persons:

<p>Mr. S.K. Baswal, Director (Technical),RREC E-166, Yudhisthir Marg, C-Scheme,Jaipur, Rajasthan. rrec2016@gmail.com Tel: 0141-2229341</p>	<p>Mr. Sunit Mathur, General Manager (RE&O),RREC E-166, Yudhisthir Marg, C-Scheme,Jaipur-302001, Rajasthan. sunitmathur2016@gmail.com</p>	<p>Mr. K.C. Soni, Project Manager (RE&O), RREC E-166, Yudhisthir Marg, C-Scheme, Jaipur - 302001, Rajasthan. Email:rrecsoni15@gmail.com,</p>
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Note : All correspondences regarding this tender should essentially be submitted to RREC on the Email ID : rrec.saubhagya@gmail.com.

SECTION – 1

INTRODUCTION & ABBREVIATIONS

1. Background

Under the guidelines issued by Rural Electrification Corporation, GoI for “Pradhan Mantri Sahaj Bijali Har Ghar Yojana (**Saubhagya**)” from “WHITE LED (W-LED) BASED OFF-GRID SOLAR HOME SYSTEMS”. RREC wishes to select competent, experienced and financially sound manufacturers / suppliers for the work of Survey of villages & Dharies and Design, manufacture, supply, installation, testing, commissioning including 5 years comprehensive maintenance of Off-grid Solar Photovoltaic Home Lighting Systems (SHLS) in the unelectrified HHs in villages/Dharies/Hamlets/Habitations of various districts of Rajasthan. Under the scheme, 200 Wp Photovoltaic capacity Model (as per technical specifications of REC scheme guidelines) will be supplied and installed for fulfilling the minimum electricity needs of individual households. The list of un-electrified villages and dharies will be made available to the bidders before award of districts for this work.

Above work is to be carried out on a ‘**Turn Key Basis**’ which includes survey, identification of beneficiaries in the un-electrified villages/Dharies/Hamlets, collection of their share of cost after adjusting admissible subsidy/financial assistance, supply of SPV systems with all accessories and equipments, installation, testing, commissioning and further 5 years comprehensive maintenance. **Expected quantity of SPV Home Lighting Systems to be supplied under this Tender will be around 160000 Nos. This quantity may further increase depending upon demand (if any due to further addition of villages/Dharies or change in numbers of beneficiaries) in un-electrified villages & Dharies and further list of such villages dharies made available by Discoms.**

2. Mode of Execution of Programme:

The basis of evaluation of the bids shall be the cost/rate quoted in the Price Schedule. To further clarify, installation and commissioning cost and taxes etc. shall be inclusive in the cost of supply of complete system including five years comprehensive maintenance for comparison and evaluation. Proposers are required to quote rate / cost on firm basis and no price variation on any account shall be considered.

The selected manufacturers / authorised suppliers shall identify beneficiaries in the un-electrified villages to supply, install, commission systems and **provide comprehensive maintenance services for 5 years free of charge.** They shall also be required to set up their

repair and maintenance centres for providing effective repair/maintenance services to the beneficiaries and meet conditions detailed in Section 2.

The Programme shall be carried out as per guidelines at Section-2 along with those given hereunder:-

- (i) The manufacturer shall be allowed to install the systems conforming to the specifications detailed in the tender after submission of test certificates of HLS system (as per specifications detailed at Annexure-2) issued from MNRE approved test house after authorisation by RREC.
- (ii) For this work, RREC shall award specific targets / limits to each selected manufacturers and fix prices for sale of systems to the user (beneficiaries).
- (iii) The manufacturers may claim subsidy from RREC by submitting complete list of beneficiaries along with full addresses, date of sales, models and makes and serial numbers of systems & PV modules supplied along with the photographs of installed system duly verified by RREC's field Project Officer or authorised representative from RREC Head Office.

3. **Abbreviations / Terms:**

(i)	RREC :	Rajasthan Renewable Energy Corporation Limited
(ii)	Manufacturers:	Manufacturers of SPV Systems (meeting technical specification as per guidelines of REC).
(iii)	RFP:	Request for Proposal
(iv)	EMD:	Earnest Money Deposit
(v)	SD:	Security Deposit
(vi)	Systems:	SPV Domestic Light (Home Lighting System) / SPV Off-grid Systems/ SPV Off-grid HLS.
(vii)	Proposal:	Tender / Bid / Quotation
(viii)	Proposer:	Tender/Bidder/Applicant
(ix)	Cost of System:	Total of Price of System including all taxes.
(x)	Amount payable by RREC:	Subsidy amount only
(xi)	Subsidy:	Capital cost support to beneficiary from RREC (As per support provisions from REC and GoR).
(xii)	CMC:	Comprehensive Maintenance Contract {which includes maintenance of system with repair/replacement of parts, including Battery, free of cost}.

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SECTION – 2

SCOPE OF WORK

Scope of work covers survey, identification of beneficiaries as per RREC's conditions, design, supply, installation, testing, commissioning and 5 years comprehensive maintenance of Solar Photovoltaic Home Lighting System (HLS) for electrification of UE HHs in the un-electrified villages/Dhanies/Habitations situated in the State conforming to technical specifications enumerated in relevant Annexure of this Tender. Detailed scope of work is provided hereunder:-

2.1 Work of installation & ongoing maintenance of HLS shall involve:

- (a) Survey, Identification, motivation and engagement of prospective/interested beneficiaries in the un-electrified villages & Dhanies (As per list provided by RREC) along with uploading of complete details on RRECL website.
- (b) Collection of balance payment for supply and installation cost of systems from beneficiaries after deducting/allowing applicable subsidy. Bidders can opt their strategy to collect the beneficiary share. RREC will not take any responsibility for arranging the collection of payable share of beneficiary.
- (c) Entering into supply and maintenance contract agreements with beneficiaries.
- (d) Completion of work of supply, installation, commissioning and testing as per schedule given at the time of allotting targets.
- (e) Supplier will essentially upload the verified documents (from PM/PO, RREC after physical verification of installations) on RREC website as per directions before submission the claims for payment.
- (f) **Rectification of Faults:** All the empanelled vendors shall be bound to develop their "After sales service centres" in the vicinity of the area of the installed systems or at least at tehsil level /at central location to facilitate AMC services. The beneficiaries should be well informed about the AMC centre of vendor, RREC call centre/toll free numbers and the Empanelled Vendor will educate the Beneficiaries on the process for registering the complaints on RRECL Call Center/toll free nos. After registration of complaint, a CRN {Complaint registration number} will be generated and communicated to the Vendor as also Beneficiary on his/her mobile and e-mail (if any). System faults will have to be rectified within 7 days from the date of registration of complaint at call centre. Vendor will update the status of fault rectification on RREC website /call centre for online monitoring of the complaints registered and services being provided by

the vendor. The beneficiary can also track status of his / her complaint online at official website of RREC and web portal of vendor.

RREC reserves the right to allot any areas / districts / villages to qualified empanelled supplier.

2.2 **Eligible Beneficiary for off-grid SPV Home Lighting Systems:**

Households of Un-electrified Villages/dhanies (as per list of RREC) will be the eligible beneficiaries for consideration under this Saubhagya scheme. Eligibility of the villagers residing in these villages/dhanies will be established through a self-certificate furnished by the potential beneficiary accompanied by a requisite form of identification (Aadhar Card /Voter ID card /Drivers License) and further verification by Sarpanch/Ward Panch/Panchayat Secretary or School Teacher of the same Gram Panchayat area.

2.3 **Subsidy Pattern :**

Subsidy support for 200 Wp systems under this scheme will be **95% OR 100%** of price of system depending upon the approval of Govt. of Rajasthan. RREC will provide subsidy support on receiving funds from REC and GoR. The remaining amount, if any, after subsidy support will be payable by the beneficiaries to the suppliers.

2.4 **Project Estimates:**

RREC tentatively estimated the price of each 200 Wp SPV HLS as Rs. 40000/- and total project estimates as under :

Systems	Quantity	Tentative Estimated cost
200 Wp SPV HLS	160000 Nos. (Estimated)	Rs. 640 Crs.

Note:- The bidder should furnish their proposal for work of at least 10000 Nos. HLS Systems, as RREC intend to award the total work to ELEVEN supplier only.

SECTION – 3**EXPERIENCE AND COMPETENCE**

Followings are the requirements for responsiveness for experience and competence for the bidders:

- (i) The Bidder should be either a body incorporated in India under the Companies Act, 1956 or Companies Act, 2013 including any amendment thereto and engaged in the business of Solar Power.

A copy of certificate of incorporation should be furnished along with the bid in support of above.

OR

The Bidder should be either a body incorporated in India under the Limited Liability Partnership Act, 2008: a subset of Companies Act, 2003 and engaged in the business of Solar Power/Renewable Energy.

A copy of certificate of incorporation should be furnished along with the bid in support of above.

OR

The Bidder should be a firm registered under Partnership Act, 2008 in India and engaged in the business of Solar Power/Renewable Energy.

A copy of certificate of incorporation should be furnished along with the bid in support of above.

OR

The Bidder should be a firm registered as Sole Proprietor under Shop Act in India and engaged in the business of Solar Power/Renewable Energy.

A copy of certificate of incorporation should be furnished along with the bid in support of above.

- (ii) Following are the required experiences for considering responsiveness of the bidders:

- (a) Bidder shall have experience of execution of installation and maintenance of Solar Photovoltaic Home Lighting Systems (HLS) in rural areas amounting (of value) to total Rs. 20.00 Crore during last Five years [ie 2013-14 to 2017-18 & till date of submission of bid]. The work should be executed under SNA/ Govt. Organisation/SECI/PSUs only.

OR

Bidder shall have work execution experience of Off-grid SPV systems (HLS, SLS, SPV Pumps, Off-grid SPV Power Plants, Mini-grid) in rural areas amounting Rs. 50.00 Crores, out of which bidder should have **minimum experience** of supply, installation of Solar Photovoltaic Home Lighting Systems (HLS) in rural areas amounting (of value) to total Rs. 5.00 Crore during last Five years [ie 2013-14 to 2017-18 & till date of submission of bid]. The work should be executed under SNA/ Govt. Organisation/SECI/PSUs only.

- (b) The details of projects executed during period mentioned above should be listed in Annexure-3(A) and Annexure-3(B). Copy of work orders and a certificate issued by the SNA/ Govt. Organisation/SECI/PSUs towards the satisfactory installation and functioning of the power plants/systems to be furnished by the bidder.

It may be noted that a proposal /bid from any such firm which has not carried out works related to installation of systems as noted above shall not be considered a responsive offer. Schedule in which experience details should be furnished by the firms as per Annexure-3 (A) & 3(B) supported by required certificates from the concerned SNA/Govt. Department/MNRE/PSUs & copies of work orders and work completion certificate.

Note : For submission of experience, bidder should furnish copies of work orders issued to them and satisfactory work completion certificate by the authority essentially. In absence of any one, it will not be considered for qualifying in technical bid.

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SECTION – 4**FINANCIAL CAPABILITY**

Tenderer shall have to attach firm's Balance Sheet / CA certificate for any last three years i.e F.Y: 2014-15, 2015-16, 2016-17 & 2017-18. There should **be minimum average turnover of 10.00 crore per year** in any three years from F.Y: 2014-15, 2015-16, 2016-17 & 2017-18. It is further clarified that the total turnover of any three Financial years 2014-15, 2015-16, 2016-17 and 2017-18 should be **30.00 Crores or more**.

Note: Provisional CA certified balance sheet for 2017-18 can be accepted.

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SECTION – 5**PRICE SCHEDULE**

Bidders shall quote their lowest rates / costs for the work of survey, design, supply, installation, commissioning, testing and five years free comprehensive maintenance including all taxes etc. in **Annexure-4**.

RREC will declare L1, L2, L3.....Ln based on price received/quoted for **200Wp model** of Off-grid SPV Home System from bidders summingup cost of supply, installation & commissioning along with Five years free maintenance and all applicable taxes for comparison and evaluation. Supplier has to execute a Comprehensive maintenance Contract for a period of five years with the beneficiary during which maintenance shall be provided free of cost including repair/replacement of the system for manufacturing defects.

Note : Bidders are directed that price offers should be furnished **online only** in cover-3 in the format of Annexure-4. **If price offers will be submitted in technical bid (i.e in cover-1 and cover-2), such bids will be rejected in technical bid evaluation stage and will not be considered for further process to conclude the bid.**

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SECTION – 6

PRE-REQUISITES AND PROPOSAL EVALUATION

1. Pre-requisites:

Following are the pre-requisites for the tenderer to be considered responsive to this tender:

(i)	<p>The Bidder should be either a body incorporated in India under the Companies Act, 1956 or Companies Act, 2013 including any amendment thereto and engaged in the business of Solar Power. A copy of certificate of incorporation should be furnished along with the bid in support of above. OR</p> <p>The Bidder should be either a body incorporated in India under the Limited Liability Partnership Act, 2008: a subset of Companies Act, 2003 and engaged in the business of Solar Power/Renewable Energy. A copy of certificate of incorporation should be furnished along with the bid in support of above. OR</p> <p>The Bidder should be a firm registered under Partnership Act, 2008 in India and engaged in the business of Solar Power/Renewable Energy. A copy of certificate of incorporation should be furnished along with the bid in support of above. OR</p> <p>The Bidder should be a firm registered as Sole Proprietor under Shop Act in India and engaged in the business of Solar Power/Renewable Energy. A copy of certificate of incorporation should be furnished along with the bid in support of above.</p>
(ii)	<p>Following are the required experiences for considering responsiveness of the bidders:</p> <p>(a) Bidder shall have experience of execution of installation and maintenance of Solar Photovoltaic Home Lighting Systems (HLS) in rural areas amounting (of value) to total Rs. 20.00 Crore during last Five years [ie 2013-14 to 2017-18 & till date of submission of bid]. The work should be executed under SNA/ Govt. Organisation/SECI/PSUs only. OR</p> <p>Bidder shall have work execution experience of Off-grid SPV systems (HLS, SLS, SPV Pumps, Off-grid SPV Power Plants, Mini-grid) in rural areas amounting Rs. 50.00 Crores, out of which bidder should have minimum experience of supply, installation of Solar Photovoltaic Home Lighting Systems (HLS) in rural areas amounting (of value) to total Rs. 5.00 Crore during last Five years [ie 2013-14 to 2017-18 & till date of submission of bid]. The work should be executed under SNA/ Govt. Organisation/SECI/PSUs only.</p> <p>(b) The details of projects executed during period mentioned above should be listed in Annexure-3(A) and Annexure-3(B). Copy of work orders and a certificate issued by the SNA/ Govt. Organisation/SECI/PSUs towards the satisfactory installation and functioning of the power plants/systems to be furnished by the bidder.</p> <p>It may be noted that a proposal /bid from any such firm which has not carried out works related to installation of systems as noted above shall not be considered a responsive offer. Schedule in which experience details should to be furnished by the firms as per Annexure-3 (A) & 3(B) supported by required satisfactory work completion certificates and copies of work orders from the concerned SNA/Govt. Department/MNRE/PSUs only.</p> <p>Note : For submission of experience, bidder should furnish copies of work orders issued to them and satisfactory work completion certificate by the authority essentially. In absence of any one, it will not be considered for qualifying in technical bid.</p>

(iii)	Tenderer shall have to attach firm's Balance Sheet / CA certificate for any last three years i.e F.Y: 2014-15, 2015-16, 2016-17 & 2017-18. There should be minimum average turnover of 10.00 crore per year in any three years from F.Y: 2014-15, 2015-16, 2016-17 & 2017-18. It is further clarified that the total turnover of any three Financial years 2014-15, 2015-16, 2016-17 and 2017-18 should be 30.00 Crores or more . Note: Provisional CA certified balance sheet for 2017-18 can be accepted.
(iv)	The Tenderer should have Test report in their name for the SPV HLS system (complete system: SPV Module, MPPT Charge controller, LiFePO ₄ Battery 12.8V, 80Ah, LED Batten 7W, Mobile charger & DC Fan) as per specifications as detailed at Annexure-2. OR In case complete system report as per tender specification is not available any other test certificate of LED lighting system or individual component test report i.e SPV Module (200Watt) and Battery (12.8V, 80Ah of LiFePO ₄) in their name issued from MNRE/BIS accredited lab/test centre should be available with bidder. Note : LiFePO ₄ battery cells should be conforming the BIS standards. Certificate of manufacturer issued from MNRE/BIS accredited test house should be submitted.
(v)	Tenderers should have their GST registered certificate.

Note: (i) The tenderer must fill up above information clearly in enclosed sheet and attach all required documents in support as at a glance in Techno - Commercial bid.

(ii) If supporting documents are not attached for each eligible criteria above, the bid shall be rejected without further reference.

2. **Bid opening online:**

- (a) First of all Envelope in hard copy (in physical form) furnished by bidder shall be opened and examined for the submission of Tender Cost, RISL charges and EMD and if found as per requirements, the **Cover-1** (on-line) containing scanned copies of documents submitted for Tender Cost, RISL e-proc charges and EMD shall be opened and checked for the eligibility for opening cover-2 (i.e.- Technical bid).
- (b) Documents as furnished in envelope-1 should be available as per requirement in cover-1 completely also. If found accordingly as per requirement, then cover-2 (Technical bid : online) shall be opened of those bidders.

3. **Evaluation of proposals :**

The evaluation of techno- commercial bid will be done & price bids (i.e. Cover-3) of only those bidders will be opened who are found technically eligible and qualified. The basis of technical evaluation shall be the documents submitted as techno-commercial bids [Required under section-3, section-4 & section-6(1)].

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PRE- REQUISITES AND PROPOSAL EVALUATION INFORMATION SHEET

S.No.	Details required :	Brief details to be furnished by the firm :	Page No. of Self-attested document attached as proof.
1.	Complete bid document including all corrigendums (if any) dully filled as per requirement, signed and should be uploaded.		
2.	Status of the firm [As per Section 6.1 (i)].		
3.	Experience details of the firm [As per Section 6.1 (ii)].		
4.	Financial Capability of the Firm [As per Section 6.1 (iii)].		
5.	Test certificate of 200Wp off-grid SPV Home lighting system [As per Section 6.1 (iv)].		
6.	GST registered certificate of the firm [As per Section 6.1 (v)].		

Note: 1. If complete bid document with all corrigendums issued by RREC in reference to this tender as mentioned at point No. 1 in above table not uploaded online in cover-2 by the bidder, their technical bid (Cover-2) will be declared non responsive and rejected for further process of evaluation ignoring other documents furnished by the firm.

2. If any document submitted in support of above parameters is found to be false, the tender will be disqualified and EMD and Security Deposit shall be forfeited and tenderer shall be blacklisted.

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SECTION – 7**COMPLETION PERIOD**

RREC will award districtwise work to **total Eleven qualified bidders**. The work is to be completed by **31st March, 2019**. RREC may extend this period at its discretion.

The firms shall submit their bills for SPV HLS installation completed to respective Project officers on monthly basis along with required documents/papers and obtain receipt of the same from PO office. RREC HQ will be informed about this along with receipt of PO office & list of beneficiaries within next 10 days (i.e. 10th day of every month).

The last bill must be submitted to PO not later than 30 days after expiry of the scheduled time period & RREC HQ will be informed within the following 30 days along with receipt of PO office & list of beneficiaries.

Delay in submission of bills to RREC's PO office after 30 days from scheduled date for completion of work&/or to RREC HQ with the receipt of RREC's PO office & list of beneficiaries as per schedule will attract penalty deduction from the subsidy claim and the amount of penalty shall be calculated on payable subsidy against such submissions as under:

- (i) Delay upto one month – 0.20%,
- (ii) Delay of more than one month & up to 3 months- 0.30% per month (i.e 0.80% penalty upto total three months delay),
- (iii) Delay of more than three months & upto six months – 0.40% per month (i.e 2.00% penalty upto total six months delay).
- (iv) After six months no claim will be considered for payment of subsidy.

{Note: This penalty will be additional to as mentioned at clause 9.14}.

The extension of time period for implementation of the programme is solely on the discretion of the tendering authority.

Note: The Empanelled Vendor must obtain a receipt duly numbered, dated and signed by PO office/RREC Head office for each and every bill correspondence failing which no relaxation request of the supplier shall be entertained regarding delay.

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SECTION – 8**INSTRUCTIONS TO TENDERERS**

- 8.1 Tenderers are required to furnish all information and documents as called for in this document should be in the English Language. Any printed literature furnished by the bidder may be in another language, provided that this literature is accompanied by an English translation, in such case, for the purpose of interpretation of the document, the English version will govern.
- 8.2 **The consortium/Joint venture proposals** shall be acceptable as per following conditions :
- (i) The lead member should have procured the tender document in its own name.
 - (ii) The lead member should submit consortium agreement along with the proposal.
 - (iii) All requirements as per Section-6 of the tender document can be furnished by both consortium members jointly.
 - (iv) The lead member should undertake the responsibility for all obligations and liabilities relating to the project in accordance with the terms of this tender.
 - (v) The work would be awarded to the lead member and RREC would acknowledge other consortium member in the work award letter and other communications.
 - (vi) All payments from RREC will be made only to the lead member.
 - (vii) Only one agreement with only one party will be accepted under consortium agreement.
- 8.3 The Proposal received after the closing date and time shall not be considered.
- 8.4 Relaxation in EMD deposition will be as per RTPP act as detailed at point No. 3 at Page No.5 in the tender document.
- 8.5 The documents shall be properly checked and signed before uploading for submission of proposals.
- 8.6 Intending bidders are required to carefully go through the instructions included in the document and furnish complete information, necessary documents and schedules.
- 8.7 All costs towards site visit and submission of documents etc. shall be borne by the applicants themselves.
- 8.8 Applicants are informed that RREC is neither under any obligation to select any applicant, nor to provide any reason for either qualifying or disqualifying any applicant. RREC is also not under any obligation to proceed with the programme or any part thereof.
- 8.9 At any time prior to opening of price proposals, RREC, either at their own initiative or in response to clarifications requested by a prospective tenderer, may modify tender by issuing an amendment. Such amendment(s) shall be up loaded on e-proc site.
- 8.10 The proposals as submitted shall invariably indicate that proposal is firm and that proposals shall remain valid and open for a period of not less than six months from the date of opening.

- 8.11 After opening of proposals and till final selection of successful suppliers/bidder(s), no correspondence of any type will be entertained, unless called for by RREC. Any type of uncalled for clarifications on prices and or rebates shall not be accepted.
- 8.12 In the event of abidder not responding to further negotiations as required for selection of suppliers, RREC reserves the right to forfeit the Earnest Money Deposit amount furnished by such bidders.
- 8.13 RREC will review the proposals to determine whether the proposals are substantially responsive to the requirements listed in this document. **Proposals considered non-responsive are liable for rejection for the following reasons:**
- (i) Proposal is not received by the due date & time and proposal is not accompanied with the required documents & schedules.
 - (ii) Proposal is not accompanied by Earnest Money Deposit/Tender Cost/RISL Charges.
 - (iii) Conditional proposal should be rejected.
 - (iv) Proposal is not valid for at least six (6) months.
 - (v) Desired certificates in the tender not attached by the bidder.
 - (vi) Prices not quoted in prescribed Proforma /schedule.
 - (vii) Proposal is not meeting any other pre-requisite as spelt out elsewhere in this document.
- 8.14 RREC shall take up detailed evaluation of the responsive proposals only.
- 8.15 RREC attaches great importance to maintenance of the systems as it is felt that without proper maintenance after installation of system, consumers may be deprived of the benefits of electricity. To achieve this objective, successful tenderer shall proceed to **first establish after-sales service network in the awarded area in the concerned district for installation of systems. This may consist of service centre at a convenient place to be reached by a beneficiary.** Such service centres shall have spares for the system and repair facility. The concerned PO, RREC shall verify this fact and only then the supplier shall be allowed to install the systems.
- 8.16 **Supplier shall provide a guarantee card and an operation and maintenance manual in Devnagri script to each beneficiary. Beneficiaries shall also be educated through brochures about dos & don'ts on the system.** The details of after sales service centers along with telephone numbers & contact persons of firm & details of RREC offices, address and telephone numbers must be provided to each beneficiary.
- 8.17 It may be carefully noted that maintenance of SPV Systems includes maintenance of all items including all accessories. **Complete SPV systems including batteries shall bear a warranty for a minimum period of 5 years and solar modules shall have warranty for minimum 10 years.** In case of defects in batteries during guarantee period, successful bidders shall be responsible for repairs / replacement of batteries and to ensure that batteries perform satisfactorily during the guaranteed period.
- 8.21 The tenderer must quote the prices strictly in the manner as indicated in the price schedule, failing which proposal is liable for rejection.

8.22 The tenderer should sign the proposal form on each page and also at the specified location. Each and every paper enclosed must be given a page no. like 1,2,3,.....etc.& a bid summary must be enclosed along with covering letter on the Letter Head of the firm in the following format : -

S.No.	Particulars/brief of information/ schedule/ Annexure	Page No:
1.		
2.		
3		
.....		
	Total Page	

Signature

8.23 Successful Tenderer will be required to enter into an agreement in the prescribed format (**Annexure-7**) with required Security deposit within given period in the Empanellement order. In the event of failure, the full earnest money deposited shall stand forfeited.

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SECTION – 9**TERMS & CONDITIONS****THE WORK OF SUPPLY & INSTALLATION COMMISSIONING & COMPREHENSIVE MAINTENANCE FOR FIVE YEARS OF OFF-GRID SPV HOME LIGHTING SYSTEMS UNDER SAUBHAGYA SCHEME**

9.1 Intending bidder shall have to deposit earnest money of amount **Rs. 82.00 Lakhs {Rs. Eighty Two Lakhs only }** in the form of Demand Draft / Bankers cheque / Bank Guarantee of scheduled bank (valid for six months from last date of submission of tender), without which tender will not be considered.

Government undertakings PSUs are exempted for EMD deposition on producing certificate issued by competent authority. SSI Firms registered as SSI Units of Rajasthan are exempted for EMD (under rule 52(2)(a)(i) of GF&AR Part-2 and RTPP rule 42(2) on producing relevant certificate from authority in Hard Copy in envelope-1 and also online in cover-I. Relaxation in EMD deposition will be as detailed at point No.3 at Page No.5 of this document.

9.2 (i) The Earnest Money will be refunded to the unsuccessful bidders after execution/signing of the contracts with successful bidders and security deposit is obtained, whereas in case of successful bidders it may be treated as part of Security Deposit.

(ii) Security Deposit : The successful bidder shall be required to furnish security deposit @ 5% against order value at the time of Award of Contract.

(a) Security Deposit shall be solicited from all successful bidders except the departments of the State Government and undertakings, corporations, autonomous bodies, registered societies, co-operative societies which are owned or controlled or managed by the State Government and undertakings of the Central Government. However, a declaration shall be taken from them.

(b) The amount of security deposit in case of Small Scale Industries of Rajasthan shall be one percent of the order value and in case of sick industries, other than Small Scale Industries, whose cases are pending before the Board of Industrial and Financial Reconstruction (BIFR), it shall be two percent of the amount of supply order.

The S.D. shall be returned after three months from the date of successful installation of the last system.

(iii) The earnest money of successful tenderer will be adjusted (if DD/Bankers cheque) towards 5% security deposit against order value and balance amount towards security shall be got deposited at the time of execution of agreement or commencement of supply whichever is earlier. The tenderer may deposit balance amount of security deposit in the form of DD(if willing to adjust EMD in SD). In case of submission of SD in form of Bank guarantee, a new fresh Bank guarantee of the full value of Security deposit (**valid for 18 months from date of agreement**) should be deposited along with agreement with in allowed time frame. Thereafter EMD deposited with bid shall be refunded.

9.3 The time specified for work in the contract shall be deemed to essence of the contract and the successful suppliers shall arrange to complete the work with in the period. The progress will be reviewed after one month & periodically further.

- (a) After getting work order within one month, if supplier(s) feels that they are not capable to work as per schedule with targets then on request for decrease of allotted target (mentioning reason proposed for surrender) maximum limited to 25%, RREC at its sole discretion may reallocate the target to other supplier. A penalty imposition of @Rs.100/- per system will be charged on the vendor who has surrendered the targets.
- (b) After one month period, no application/request for decrease the target will be accepted.
- (c) Thereafter, second review of progress will be taken after TWO months and further after FOUR months for evaluation of progress of the firms. If supplier/vendor fails to complete 50% of the final awarded work in four months, the SD of the firm will be forefitted with termination of agreement and his balance target quantity will be distributed among the other vendors.
- (d) In case the vendor has executed more than 50% of their allocated target within four months but fails to complete the target within scheduled period, then SD will be forfeited for the unexecuted capacity except the conditions i.e village and/or Dhani already electrified/Unpopulated/villagers refuse to take off-grid SPV HLS.

9.4 Acceptance of the proposal(s) will rest with the Managing Director, RREC, Jaipur who does not bind himself to accept the lowest offer and may reject any proposal without assigning any reasons thereof.

9.5 No foreign exchange will be provided by RREC.

9.6 The rates quoted for supply of SPV systems must be firm and fixed, FOR site(s) as per prescribed format.

9.7(A) The payment of subsidy amount for supply of SPV Home systems shall be released under the programme only after such subsidy received from funding agencies as per following terms:

- (i) 90% amount after receipt of claim from the supplier with following documents duly verified by RREC's concerned Project Officer/nominated RREC Officer from Head office.
 - a. Invoice issued by the supplier or his authorised dealer to the beneficiary
 - b. Installation certificate (As per Annexure-11) with name, fathers name & full address of beneficiaries.
 - c. Date of commissioning.
 - d. Model
 - e. Make
 - f. Serial Nos. of PV modules, Batteries and Balance of systems.
 - g. Address proof of beneficiary like Ration Card, Aadhar card, Voters Identification Card number etc.
 - h. Two Photographs of beneficiary with installed system(The Photograph must match with the photograph in the ID proof). As far as possible, photograph of installed system should be taken with person whose ID proof is being taken but in case at the time of taking Photograph the ID proof person is not available at his /her residence, spouse's photograph may be taken with installed system.
 - i. Copy of Agreement with beneficiary for maintenance (Annexure-9)
 - j. Copy of installation certificate duly signed (with seal) by Sarpanch/Gram Sevak cum Panchayat Secretary/Patwari/ School Principal of local Govt. School {Annexure- 10}.

[Two sets of documents (a) to (i) must be prepared & one copy be submitted to PO & second copy, duly verified from concerned PO, RREC, to RREC HQ Jaipur along with

bill of subsidy claim and these beneficiaries details should also be uploaded on RREC website with mentioned documents].

However, it should be noted that RREC at its discretion may undertake additional physical verification (of upto 5% of the number of systems installed) by a committee of head office representatives either in all regions or in selected regions randomly twice in contract tenure. In cases of any discrepancies identified during this physical verification, RREC may withhold release of balance payment till all rectifications have been completed to the satisfaction of RREC.

(ii) Balance 10% of the subsidy will be retained as Performance security and will be released to the vendor as under :

- (1) After completion of 3 years @3% of deducted 10% Performance security deposit on submission of certificate issued by RREC concerned PM/PO for satisfactory AMC services provided to the beneficiary on the basis of site inspection of at least 10% beneficiaries and reports/records of services provided at service centre.
- (2) After completion of 4 years @3% of deducted 10% Performance security deposit on submission of certificate issued by RREC concerned PM/PO for satisfactory AMC services provided to the beneficiary on the basis of site inspection of at least 10% beneficiaries and reports/records of services provided at service centre.
- (3) After completion of 5 years @4% of deducted 10% Performance security deposit on submission of certificate issued by RREC concerned PM/PO for satisfactory AMC services provided to the beneficiary on the basis of site inspection of at least 10% beneficiaries and reports/records of services provided at service centre.

OR

- (4) RREC may release complete remaining 10% of project cost kept against 5 years CMC on submission of Bank Guarantee (issued from Nationalised Bank only) of value 1.5 times of 10% hold amount valid for 66 months from date of completion of all installations and commissioning of systems.

(B) The supplier shall provide comprehensive maintenance services as under :

- (i) The supplier shall develop service centre at tehsil head quarters essentially and every beneficiary should be well informed about the concerned service centre for lodging their complaint.
- (ii) Supplier shall ensure half yearly routine maintenance of system.
- (iii) The supplier shall timely attend to faults as and when arrive/reported, The faults should be attended within 3 days from lodging of complaint and rectify within 7 days period. If this is not attended as per this schedule, penalty shall be imposed as under :
 - (a) If the fault is not attended within 3 days from lodging of complaint and not rectified in maximum 7 days period three times/per site in a year, RREC will deduct Rs. 20/- per day /per site as penalty on excess days beyond 7 days from payable AMC amount to the firm.
 - (b) If the fault is not rectified in 30 days from lodging of complaint, RREC will deduct the entire cost of the system from amount withheld as CMC security.
 - (c) A register shall have to be maintained at every service centre which will be verified by concerned PM/PO, RREC or other officers of RREC during inspection and site visits.

The empanelled vendor shall ensure timely and satisfactory resolution of the faults. All faults should be attended by the supplier within 7 days of lodging of complaint by the beneficiary. Supplier will maintain a register of complaints & rectification of same. This will be verified by PM/PO & other RREC officers during visits.

(C) In case the supplier/tenderer fails to provide proper maintenance of the systems to the beneficiary and number of complaints/dissatisfaction of beneficiaries regarding system performance & about AMC services, MD, RREC at his discretion conclude by forfeiture of **all outstanding amount with RREC (Performance security) and action against the firm will also be taken for debarring & black listing.**

(D) Invoicing Pattern:

(i) The supplier will directly sell the system to beneficiary through an invoice of his own or his authorised dealer/consortium partner in the name of beneficiary. The invoice can be of the empanelled supplier lead member or consortium partner in case of consortium or their authorised dealer, as the case may be, and will clearly mention the full value of the system and tax components with deduction of subsidy amount. Supplier will submit subsidy claims enclosing one copy of sale invoice and installation certificates etc. as per Clause no. 9.7 of the tender document.

(ii) If the systems are sold by the authorised representative of the tenderer (Dealer or sub dealer), then to claim subsidy from RREC, following document or their copies should be submitted along with:

* A copy of invoice issued by the dealer/sub-dealer to the beneficiary counter signed by Supplier duly verified by the PO, RREC.

* A copy of invoice for the systems transferred /sold by the supplier to his dealer/ sub-dealer. The module number in both the invoices should match.

9.8 RREC reserves the right at its sole discretion: (i) not to authorise any tenderer for the supply and installation of HLS for which proposals have been invited; (ii) authorise for less than the quantity communicated in the RFP document. The bidders shall not be entitled to any compensation whatsoever in this regard.

9.9 Proposals will be valid for a period of 6 months from the date of their opening for the purpose of communicating acceptance by the department. The proposals with validity of less than 6 months will not be considered. The validity can be further extended with mutual consent.

9.10 In the event of breach of any of the conditions except specified in point No: 9.3 of the contract at any time on the part of the empanelled supplier, the contract may be terminated summarily by Managing Director, RREC, Jaipur without compensation to the supplier and SD will be forfeited and RREC will take action for debarring & blacklisting the firm.

9.11 The price quoted for the systems must be including installation charges and comprehensive maintenance for 5 years charges and shall remain fixed and firm during the period of contract.

9.12 (a) Complete literature and specifications of the material offered must accompany the tender.

(b) All type tests certificates as mentioned in the "Off-grid and decentralised solar applications" guidelines of MNRE issued vide No: 5/23/2009-P&C Dated: 8th July, 2010 and further issued Technical Specifications for white LED (W-LED) based solar photovoltaic Lighting systems (updated for off-grid Solar Applications Scheme 2016-17) and further amended time to time should be furnished.

(c) The tenderer should furnish certificate of test report issued by MNRE approved test house for complete system as per specifications of the system detailed in tender at Annexure-2.

9.13 The systems offered shall be guaranteed by the manufacturer for use and services for a period of five years from the date of commissioning. Any part found defective during its operation shall have to be replaced free of cost.

9.14 (i) The time specified for delivery and completion of work in the contract tender shall be deemed to be the essence of the contract and the successful supplier(s) shall arrange to complete work within the period on receipt of order from RREC. Failing which action will be taken against the firm as per provision of bid.

(ii) RREC will review the progress of the work of all empanelled vendors on a periodic basis. If vendor(s) does not comply to his proposed schedule, RREC at its sole discretion may reallocate the remaining work to any/all other interested firm, so as to achieve the targets.

9.15 (A) Should the successful manufacturer(s) fail to complete the work in the period specified in the authorisation letter / contract, the RREC may at its discretion to allow an extension in time of completion, subject to recovery of LD from the manufacturer an agreed liquidated damages and not by way of penalty a sum equal to the following percentage from the amount payable by RREC [i.e. the amount of LD shall be calculated on the total subsidy payment payable by RREC] for quantity of systems which the manufacturer has failed to supply for period of delay as stated below:-

- (a) Delay up to one fourth period of the prescribed delivery period -2.5%.
- (b) Delay exceeding one fourth but not exceeding half of the prescribed delivery period – 5%
- (c) Delay exceeding half but not exceeding three fourth of the prescribed delivery period – 7.5%
- (d) Delay exceeding three fourth but not exceeding the period equal to the prescribed delivery period – 10%.

For calculation of LD, following will be considered :

- 1. Fraction of a day in reckoning the period of delay in supply shall be treated one full day.
- 2. The maximum amount of agreed liquidated damages shall be 10%.
- 3. If the supplier requires an extension of time in completion of contractual supply on account of occurrence of any hindrance, he shall apply in writing to the purchasing authority for the same immediately on occurrence of the hindrance but not after the stipulated date of completion of supply.
- 4. Delivery period may be extended with or without liquidated damages if the delay in supply of goods is on account of hindrances beyond the control of the tenderer.

(B) MD, RREC may at its discretion to allow extension of time to complete the work after reviewing the causes of delay without LD as above.

9.16 (a) No price escalation on account of any statutory increase in or fresh imposition of customs duty, excise duty, sales tax or duty leviable in respect of the systems authorised to be installed, shall be applicable.

(b) The benefit on account of decrease in these shall be availed by the department if accrued during the stipulated / extended delivery period.

9.17 If : (i) Any bidder after qualifying for opening of financial bid withdraws without valid grounds, from the procurement process, RREC will forfeit the deposited amount as EMD of the bidder with RREC .

(ii) Any bidder after opening of financial bids and deciding L-1 withdraws without valid grounds, from the procurement process, RREC will forfeit the deposited amount as EMD of the bidder with RREC and take action for debarring and blacklisting of firm.

(iii) Any bidder after deciding and matching L-1 withdraws without valid grounds, from the procurement process, RREC will forfeit the deposited amount as EMD

of the bidder with RREC and take action for debarring and blacklisting of the firm.

- (iv) Any bidder after award of work fails to provide procurement contract, any other document or security deposit required in terms of the bidding documents, RREC will forfeit the deposited amount as EMD of the bidder with RREC and take action for debarring and blacklisting of the firm.

In addition to the recourse available in the bidding documents or the contract, be punished with fine which may extend to fifty lakh rupees or ten percent of assessed value of total procurement, whichever is less.

- a. When a tenderer is unable to complete the work within the specified or extended period. It will be treated as breach of contract and it will cause of forfeit security deposit against awarded quantity under contract as per clause : 9.3 and RREC will take action for debarring and blacklisting of firm. Further be punished with the fine which may be extend to fifty lacs rupees and TEN PERCENT of assessed value of total procurement whichever is less in addition to the forfeiture of SD and MD, RREC shall be entitled to award the work to other tenderer/agency without notice to the tenderer but on his (i.e. tenderer's) account and risk, the goods or any part thereof which the tenderer has failed to complete or if not available, the best and nearest available substitute thereof, or to cancel the contract of such work. In such situation, tenderer shall be liable for any loss or damage which RREC may sustain by reasons of such failure on the part of the tenderer also. But the tenderer shall not be entitled to any gain on such work got done against defaults. The recovery of such loss or damages shall be made from any sum due to the tenderer under this or any other contract with the Corporation. If recovery is not possible from the bill and the tenderer fails to pay the loss or damages within one month, the recovery shall be made as per rules of GF&AR or any other law for the same.

9.18 While making the purchases as envisaged in 9.16, the RREC may exercise its own discretion and if possible resort to limited tender system issuing short term notices irrespective of the value of tender. In all cases where orders are cancelled due to non-supply of stores, it will be treated as breach of contract and RREC shall take action accordingly. It is clarified that the Corporation may resort to risk purchase without granting any extension.

9.19 The tenderers are required to study carefully the conditions of the tender document, the enclosed specifications and the relevant provision of the relevant BIS/ISS/MNRE specifications wherever necessary before submitting the proposal. Technical particulars of the material offered must comply with the enclosed specifications and the relevant provisions of the BIS/ISS/MNRE.

9.20 Any changes in the constitution of the firm/company shall be notified forth with by the supplier in writing to the Corporation and such change shall not relieve the tenderer from any liability under the contract.

9.21 The Tenderer shall sign these conditions on each page at the end in token of acceptance of all the terms and it would be attached /uploaded with the proposal along with the declaration. He should also sign with seal at the bottom of each of the pages of his tender.

9.22 The authorisation for installing SPV system can be repudiated at any time by the RREC if the systems are not supplied and installed to its satisfaction. The reasons for repudiation shall be recorded by RREC. In case of non-performance in any form and shape of the terms & conditions of the agreement, the MD, RREC, Jaipur has the sole discretion to cancel the authorisation pertaining to the supply and installation of systems.

9.23 If a tenderer imposes conditions, which are in addition to/or in contravention with the conditions mentioned herein, his tender is liable to be summarily rejected. In any case none of such conditions will be deemed to have been accepted unless specifically mentioned in the letter of authorisation issued by RREC.

9.24 Legal proceedings, if any, arising out of the tender contract shall have to be lodged in courts situated in Jaipur, Rajasthan only.

9.25 If any dispute arises out of the contract with regard to the interpretation / meaning and the breach of the terms of the contract, the matter shall be referred to by the parties to the Chairman, Board of Directors of RREC, Jaipur whose decision shall be final and binding.

9.26 The material shall be subjected to Pre-despatch inspection. The successful bidder will offer the material for inspection along with one sample of complete system test certificate issued from MNRE/NABL/IEC/BIS accredited test centre and routine test reports of material. Detailed instructions for inspection of material at works shall be made available to the vendor on receipt of vendor's communication with details of material offered. The supplier should submit their PDI request 10 days before their proposed scheduled inspection.

OR

Alternatively RREC, at its discretion, may collect upto 1% samples on random basis out of a lot supplied at site and get these tested at a MNRE recognised test house at supplier's cost, which includes transportation and inspection charges.

RREC can take up Pre-Dispatch Inspection of material on lot basis, if supplier proposes for the same. The following facilities shall be provided by the Vendor at his own cost to the inspecting officer :

- (a) Suitable accommodation and local conveyance between arrival point, place of stay, works and departure point.
- (b) Vendor shall arrange 'To and Fro' air tickets of economy class for journey of inspecting officer from nearest airport of work place of inspecting officer to their works or place where inspection is to be carried out and back at vendor's cost after coordinating with inspecting officer. Suitable Transport facility for inspecting officer from his work place to the nearest airport for 'To and Fro' journey will also be arranged by the vendor.
- (c) In case, place of inspection is not connected through air, vendor will arrange 'To and Fro' air tickets of economy class at their cost upto the nearest airport of place of inspection and onward journey from nearest airport to place of inspection and back by suitable means i.e taxi/train(2nd AC Class) at the cost of vendor.
- (d) In case place of inspection is within 500 kms distance from HQ of Inspecting Officer, vendor will make suitable travelling arrangement upto the destination of Inspection and back by taxi/train (2nd AC Class) at Vendor's Cost.
- (e) No deductions towards air fare / travel expenses will be made by the payment making authority, if inspection is waived by the competent authority.

- 9.27 MD, RREC, Jaipur will have full & final right to cancel, amend the awarded quantity without mentioning reason at any of bidder at any time during the contract period.
- 9.28 MD, RREC, Jaipur can take decision to stop or procure less quantity than the quantity specified in the bid due to change of circumstances, The bidder shall not entitled for any claim or compensation except otherwise promised in the bidding document.
- 9.29** If the rate contract holder quotes/reduces its price to tender similar goods, works or services at the price lower than the rate contract price to anyone in the state at any time during the currency of the rate contract, the rate contract price shall be automatically reduced with effect from the date of reducing or quoting lower price, for all delivery of the subject matter of procurement under that rate contract and the rate contract shall be amended accordingly going forward. Other firms holding parallel rate contracts shall also be given opportunity to reduce their price by notifying them the reduced price giving them fifteen days time to intimate their acceptance to the revised price. If any rate contract holding firm does not agree to the revised reduced price, all balance work as outstanding at that time shall be cancelled and further transaction with it shall not be conducted.

I/We have carefully read and understood the above terms & conditions of the tender document and agree to abide by them.

SIGNATURE OF AUTHORISED
SIGNATORY WITH SEAL

SECTION – 10**MODE OF AWARD OF TARGETS**

10.1 Financial offers of all the technically qualified bidders will be opened and the financial offers will be arranged in the ascending order of their quoted rates for **200 Wp SPV Home system in the price bid** i.e. L-1, L-2, L-3, L-4, L-5,Ln. All firms will be offered to give their consent to take up work on the lowest rates as received in the bid. If any firm does not agree to match the L-1 prices and for offered quantity then the firm shall be declared disqualified for award of any contract and the next firm will be given the offer (i.e. suppose if L-3 firm does not agree to either work at L-1 rates or for the offered quantity, it will be ignored and L-4 firm will be treated as L-3 and order will be placed to it as L-3 firm). **Concluding to above L1, L2, L3,Ln will be declared on the basis of offers furnished by vendors for 200 Wp SPV Home system in the price bid.**

10.2 RREC will award the total work of electrification of UE villages and Dhanies as under :
Methodology for award of work :

Work of unelectrified villages & Dhanies will be awarded to maximum Eight vendors stands finally L-1, L-2, L3, L4.....L8. Before, going for award of districts to vendors, list of all UE villages and Dhanies will be made available to all qualified suppliers. The award of districts will be processed as under :

L1 will select one District then

L2 will select one District then

L3 will select one District then

L4 will select one District then

L5 will select one District then

L6 will select one District then

L7 will select one District then

L8 will select one District then

L9 will select one District then

L10 will select one District then

L11 will select one District then **again**

L1 will select one District then

L2 will select one District then

L3 will select one District then

L4 will select one District then

L5 will select one District then

L6 will select one District then
L7 will select one District then
L8 will select one District then
L9 will select one District then
L10 will select one District then
L11 will select one District then

and it will be continued till allotment of all districts of Rajasthan. If there are less than Eleven successful vendors then above cycle will continue accordingly.

10.3 RREC is of the view to electrify all household of selected villages and dhanies in the scheduled time frame. RREC will review the progress and if 50% awarded work not completed by the supplier in 4 months period from award date, RREC has right to award the work to other vendors.

10.4 As this programme is beneficiary contribution based programme and it may be possible that in beginning, few villagers who could not obtained the system due to personal financial constraints, in such cases, supplier can provide the system to such beneficiaries during total programme implementation period.

10.5 Bidders should have to establish their local office in Rajasthan compulsorily before coming into agreement with RREC and for their marketing capabilities in reference to requirements of the RREC's Solar Stand Alone Off-Grid Rural Electrification Programme under Saubhagya Scheme as detailed in section -2. The qualified/empanelled bidders should have to establish their **Sales & after Sales Service Centres at least in their allocated area of Rajasthan. The existing (if any) and proposed to be setup Sales & after Sales Service Centres in the State of Rajasthan should be submitted as per Annexure : 3(C) &3(D).**

SIGNATURE OF AUTHORISED
SIGNATORY WITH SEAL

SECTION – 11**ANNEXURES**

S.No.	Annexure No:	Brief Details of Annexure	Page No:
1.	1.	MNRE Technical Specifications guidelines / Minimum standars for off-grid Solar Photovoltaic (PV) Systems :	33-35
2.	1(A)	Accredited Test centres for MNRE Off-Grid Programme	36
3.	2	Specification for Solar Home Lighting Systems	37-44
4.	3(A), (B) , (C) & (D)	Schedule of Experience	45-46
5.	4	Price Schedule	47
6.	5	FORMAT for Joint Bidding Consortium Agreement	48-49
7.	6	Tender Form	50
8.	7	Format of Agreement with Supplier	51
9.	8	Format of Undertaking to be submitted by the Supplier	52
10.	9	Format of Agreement between beneficiary and supplier for maintenance of SPV off-grid Home system.	53-54
11.	10	Format for system installation verification from beneficiary, Local representative & Project Officer, RREC.	55
12.	11	Format of Installation certificate	56
13.	12	Format for Subsidy claim Note	57
14.	13	Declaration of material proposed for supply under this programme by the Tenderer:	58
15.	14(A), 14(B), 14(C) & 14(D)	Instructions and formats to be filled / signed by tenderer as per Transparency Act 2013.	59-64

**MINIMAL TECHNICAL REQUIREMENTS / STANDARDS
FOR SPV SYSTEMS / PLANTS TO BE DEPLOYED UNDER THE PROGRAMMES OF
MINISTRY OF NEW AND RENEWABLE ENERGY**

1. PV MODULES:

1.1 The PV modules must conform to the latest edition of any of the following IEC / equivalent BIS Standards for PV module design qualification and type approval:

Crystalline Silicon Terrestrial PV Modules	IEC 61215 / IS14286
IEC 61646 / Equivalent IS	(Under Dev.)

& Assemblies IEC 62108

1.2 In addition, the modules must conform to IEC61730 Part1- requirements for construction & Part 2 - requirements for testing, for safety qualification or Equivalent IS (Under Dev.)

1.3 PV modules to be used in a highly corrosive atmosphere (coastal areas, etc.) must qualify Salt Mist Corrosion Testing as per IEC 61701 / IS 61701.

1.4 IDENTIFICATION AND TRACEABILITY

Each PV module must use a RF identification tag (RFID), which must contain the following information:

- (i) Name of the manufacturer of PV Module
- (ii) Name of the Manufacturer of Solar cells
- (iii) Month and year of the manufacture (separately for solar cells and module)
- (iv) Country of origin (separately for solar cells and module)
- (v) I-V curve for the module
- (vi) Peak Wattage, I_m , V_m and FF for the module
- (vii) Unique Serial No and Model No of the module
- (viii) Date and year of obtaining IEC PV module qualification certificate
- (ix) Name of the test lab issuing IEC certificate
- (x) Other relevant information on traceability of solar cells and module as per ISO 9000 series.

RFID shall be mandatorily placed inside the module laminate.

1.5 VALIDITY:

The validity of the existing Certificates/Reports shall be till at least 31st March 2018.

1.6 AUTHORIZED TESTING LABORATORIES/ CENTERS

PV modules must qualify (enclose test reports/ certificate from IEC/NABL accredited laboratory) as per relevant IEC standard. Additionally the performance of PV modules at STC conditions must be tested and approved by one of the IEC / NABL Accredited Testing Laboratories including Solar Energy Centre (NISE). For small capacity PV modules upto 50Wp capacity, STC performance as above will be sufficient. However, qualification certificate from IEC/NABL accredited laboratory as per relevant standard for any of the higher wattage regular module should be accompanied with the STC report/ certificate.

1.6.1 Details of Test Labs are given in Annexure 1A.

(Any other Test Lab that has set - up for testing and wants to get included may contact Director,MNRE)

1.6.2 While applying for Testing, the Manufacturer has to give the following details:

- A copy of registration of the company particularly for the relevant product/ component/ PV system to be tested
- An adequate proof from the manufacturer, actually showing that they are manufacturing product by way production, testing and other facilities
- Certification as per JNNSM standards for other boughtout items used in the system

Without above proof, test centers are advised not to accept the samples.

1.7 WARRANTY

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 80% at the end of 25 years.

2. BALANCE OF SYSTEM (BOS) ITEMS/ COMPONENTS:

2.1 The BOS items / components of the SPV power plants/ systems deployed must conform to the latest edition of IEC/ equivalent BIS Standards/ MNRE specifications/as specified below:

BOS Item / System	Applicable BIS /Equivalent IEC Standard Or MNRE Specifications	
	Standard Description	Standard Number
Solar PV Lighting Systems:	Solar PV Home Lighting System Solar PV street Lighting System Solar PV Lantern	As per MNRE latest Specifications dated 09.09.2011
Charge Controller/MPPT units	Environmental Testing	IEC 60068-2 (1,2,14,30) / Equivalent BIS Std.
Power Conditioners/ Inverters**including MPPT and Protections	Efficiency Measurements Environmental Testing	IEC 61683 / IS 61683 IEC 60068-2 (1, 2, 14, 30) / Equivalent BIS Std.
Storage Batteries	General Requirements & Methods of Testing Tubular Lead Acid / VRLA / GEL Capacity Test Charge/Discharge Efficiency Self-Discharge	As per relevant BIS Std.

BOS Item / System	Applicable BIS /Equivalent IEC Standard Or MNRE Specifications	
	Standard Description	Standard Number
Cables	General Test and Measuring Method PVC insulated cables for working voltage up to and including 1100 V and UV resistant for outdoor installation	IEC 60227 / IS 694 IEC 60502 / IS 1554 (Pt. I & II)
Switches/Circuit Breakers /Connectors	General Requirements Connectors -safety A.C. /D.C.	IEC 60947 part I,II, III / IS 60947 Part I,II,III EN 50521
Junction Boxes /Enclosures for Inverters/Charge Controllers/Luminaries	General Requirements	IP 54(for outdoor)/ IP 21(for indoor) as per IEC 529

**In case if the Charge controller is in-built in the inverter, no separate IEC 62093 test is required and must additionally conform to the relevant national/international Electrical Safety Standards wherever applicable.

2.2 AUTHORIZED TESTING LABORATORIES/ CENTERS

Test certificates / reports for the BoS items/ components can be from any of the NABL/ IEC Accredited Testing Laboratories or MNRE approved test centers (refer Annexure 1-A). The list of MNRE approved test centres will be reviewed and updated from time to time.

2.3 WARRANTY

The mechanical structures, electrical works including power conditioners/inverters/charge controllers/maximum power point tracker units/distribution boards/digital meters/switchgear/storage batteries, etc. and overall workmanship of the SPV power systems must be warranted against any manufacturing/ design/ installation defects for a minimum period of 5 years.

Accredited Test centres for MNRE Off-Grid Programme

Lab/ Organization	PV Module	Lighting Systems		Battery	Inverter>100 W		Charge Controller	
		as per MNRE Specifications	Environment al		Efficiency	Environmental	protections	Environm ental
SEC	Yes (IEC61215up to100W _p) NABL Accredited	Yes MNRE Accredited	Yes (Including IP) MNRE Accredited	Yes MNRE Accredited	Yes (upto 10KVA) MNRE Accredited	Yes (Including IP) MNRE Accredited	Yes MNRE Accredited	Yes (Including IP) MNRE Accredited
ERTL (east)	STC Test Facility MNRE Accredited	Yes NABL/ MNRE Accredited	Yes NABL/ MNRE Accredited	Yes Up to 1000AH	Yes NABL/ MNRE Accredited	Yes NABL/ MNRE Accredited	Yes NABL/ MNRE Accredited	Yes NABL/ MNRE Accredited
ETDC (B)	Yes (IEC61215) under ICEEE- CB,IEC 61701 (upto100W _p) NABL Accredited	Yes NABL/ MNRE Accredited	Yes NABL/ MNRE Accredited	Yes Up to 100AH	Yes (up to 3KVA) NABL/ MNRE Accredited	Yes NABL/ MNRE Accredited	Yes NABL/ MNRE Accredited	Yes NABL/ MNRE Accredited
CPRI(B)	No	Yes NABL/ MNRE Accredited	Yes NABL/ MNRE Accredited	Yes Up to 500AH	Yes(up to 10KVA) NABL/MNRE Accredited	Yes NABL/ MNRE Accredited	Yes NABL/ MNRE Accredited	Yes NABL/MN RE Accredited
ERTL (N)	No	Only Electronics & luminaries NABL Accredited	Yes NABL Accredited	No	Yes (up to 5KVA) NABL Accredited	Yes NABL Accredited	Yes (up to5KW) NABL Accredited	Yes NABL Accredited
UL (B)	Yes (IEC61215 IEC 61730 Pt.II and IEC 61701) upto400W _p	Yes (except battery) NABL Accredited	Yes NABL Accredited	No	Yes (up to 6KVA) NABL Accredited	Yes NABL Accredited	Yes (up to 6KW) NABL Accredited	Yes NABL Accredited
TUV Rhineland	Yes (IEC61215 & 61730 Pt-II) upto400W _p NABL Accredited	NO	Yes NABL Accredited	No	Yes(up to 10KVA) NABL Accredited	Yes NABL Accredited	Yes (up to 10KW) NABL Accredited	Yes NABL Accredited
Inter Tek	No	Only Electronics & luminaire NABL Accredited	Yes NABL Accredited	No	Yes (up to 5KVA) NABL Accredited	Yes NABL Accredited	Yes (up to5KW) NABL Accredited	Yes NABL Accredited

*Beyond 10KVA self-certification by the manufacturers is acceptable.

The use of imported complete PV system will not be permitted under this programme. Only indigenously manufactured Silicon PV modules {Mono/Poly crystalline PV modules only} will be allowed to use under this off-grid SPV programme of RREC.

Note: All type tests clearances / approvals as mentioned in the "Off-grid and decentralised solar applications" guidelines of MNRE issued vide No: 5/23/2009-P&C Dated: 8th July, 2010 and amended time to time should be followed.

-----XXXXX-----

SPECIFICATION FOR WHITE LED (W-LED) BASED SOLAR BASED HOME SYSTEMS (SOLAR POWER PACKS)

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 and luminaire(s). The Systems featuring 5 numbers of luminaires based on White Light Emitting Diode (W-LED) and could be used to run a small DC fan and/or a 12-V DC television with mobile charging. For common facilities viz. Panchayat Bhawan, school and HH electrification etc above standalone system shall be used.

The System consists of :

- SPV Module (with Module Mounting Structure) : 200 Wp
- Battery : 12.8 Volts, 80 Ahr. (approx. 1000 Watt hours minimum capacity) **Lithium Ferro phosphate**
- Solar Charge Controller with MPPT to appropriately charge and protect the battery against overcharge.
- Load :
 - 5 Nos. of White Light Emitting Diode (W-LED) Luminaire (7.0 Watts each) for 5-6 Hrs./day
 - 1 D.C. Fan (18-20 Watts) (Table Fan/ Pedestal Fan) for 5-6 Hrs./day
 - Power for a 12V DC TV (max. 25 watts) set [to be purchased separately] (Optional for 5-6 hrs./day
 - Provision for Mobile Phone Charging
- Online Monitoring shall also be conducted through mobile phone sms (feature to built in).

TECHNICAL DETAILS

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 15%.**
- 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 :
 - a. Name of the Manufacturer or Distinctive Logo.
 - b. Module Number
 - c. Serial Number
 - d. Year of manufacture
- vi. A distinctive serial number starting with NSM will be engraved on the frame of the module or screen printed on the tedlar sheet of the module.

BATTERY:

- (i) **Lithium Ferro phosphate type battery only.**
- (ii) Capacity : 12.8V, 80Ah [1000 Watt Hour (Minimum)].
- (iii) Maximum Depth of Discharge 90%
- (iv) Battery/Battery cells should conform to the latest BIS/International standards.

LIGHT SOURCE :

- (i) FIVE light sources shall be with 7.0 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 2.5 mtr 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 ultraviolet 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 electronics 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 20 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.

ELECTRONICS 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 provide.

MECHANICAL COMPONENTS :

(i) Module Mounting Pole (MMP) :

Module Mounting Pole (MMP) as per drawings should be installed alongwith the Pre-Galvanised/hot dipped galvanised (minimum 80 microns) pole for mounting of SPV modules at site. The panel frame structure should be capable of withstanding a minimum wind load of 150 Km per hour, after grouting and installation. MMP should be of 75MM dia and 3 mm thick and 4 Meter length. MMP should be sturdy & designed to assist SPV Modules to render maximum required strength. The hardware (fasters) used for installation of SPV Modules & MMP should be of suitable Stainless Steel (SS 304). Each MMP should be grouted as per drawing (Enclosed). Each Module should be fastened by theft proof nut-bolts.

- (ii) The frame structure should have provision to adjust its angle of inclination to the horizontal, so that it can be installed at the required tilt angle from horizontal.
- (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 three indicators (1) Green-----Charging under process, (2) Yellow ----Battery discharged & (3) Red ----System is in fault.
- (ii) The green indictor 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) Yellow indicator should indicate the battery “Load Cut Off” condition &
- (iv) Red indicate that system is in fault /loose connection etc.

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 DON'T's
- (ix) Name and address of the contact person for repair and maintenance.

**Detail of Material to be supplied for :
SPV Home Lighting System(200 Wp)**

S. No.	Item:	Capacity	Quantity	Standards
1.	PV Module	200 Watt	1 Nos.	Crystalline- Mono/Poly, Qualifying MNRE Standards.
2.	Pole with Module Mounting frame structure :	Suitable for 200 Wp Module.	1 Nos.	As per specifications.
2.	Battery Bank :	Lithium Ferro Phosphate Battery 12.8 V(DC), 80Ah minimum Capacity .	1 No.	Single cell of the battery should be of capacity : 3.2V, 40 Ah or 80Ah. Conforming to MNRE/BIS Standards.
3.	Charge Controller	Suitable MPPT integrated DC charge controller	1 No.	Conforming to specifications and standards.
4.	Cable (Module-controller-Battery)	2Cx2.5 Sq. mm	10-12 Meter. (Minimum)	Qualifying MNRE/BIS/IEC Standards.
5.	Cable (Controller – Fixtures/appliances)	2Cx1.5 Sq. mm	20-25 Meter. (Minimum)	Qualifying MNRE /BIS/IEC Standards.
6.	Electrical Appliances to be supplied with the system:	Fixture of LED Batten type Luminaries of 7 Wp each with inbuilt driver & control Electronics.	5 No.	As per specifications of BIS standard.
		DC Fan (18-20W)	1 No.	As per specifications.
		12V, TV Socket /Power Plug	1 No.	Of standard quality.
		USB Port for Mobile Charging in built in charge controller with multipin connector	1 No.	Of standard quality.
5.	Balance of Systems	As per requirement	As per requirement	Of certified quality standard.

Note : Housing of Battery and Charge controller :

The charge controller and Battery be housed in one steel enclosure with suitable segregation of battery and charge controller & other electronics. The LCD display shall on front side of electronic section and all connections points of the loads should be on upper side of the box. The enclosure shall be powder coated of good pleasant colour and in front side following should be written by good quality paint :

“ SOLAR HOME LIGHTING SYSTEM INSTALLED UNDER SAUBHAGYA SCHEME BY RREC”

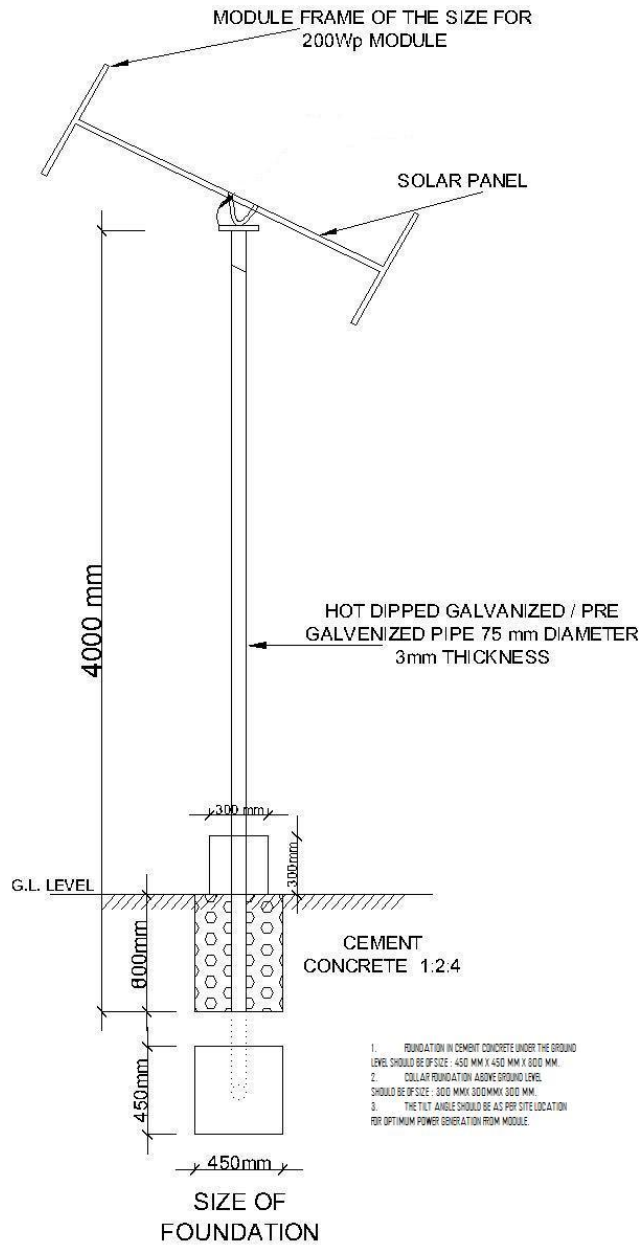
Minimum Technical Parameters :

Name of Product	S. No:	Details of Specifications :	Standards/ Parameters :	Remarks :
SPV Module :	1.	PV Capacity	200 Watt Minimum	Mono/Poly Crystalline only. Test report as per IEC/BIS standards should be furnished.
	2.	Module Efficiency	15%	
	3.	Cell Efficiency (Minimum)	16%	
	4.	Fill Factor	>70%	
Battery	1.	Lithium Ferro Phosphate (LiFePO4) Battery Capacity	12.8V, 80Ah (Minimum)	Test report issued by MNRE/BIS accredited test house should be furnished.
	2.	Capacity of individual cell	3.2V, 40Ah or 80Ah.	Cells Conforming to BIS Standards. Test report should be furnished.
	3.	Type of Cell	Prismatic	
	4.	Nominal Capacity	80 Ah	
	5.	Voltage Range	10.0 V-14.6V	
	6.	Total Energy	1024 Wh	
		Configuration	4 in series and maximum 2 in parallel.	
	7.	Charging Current	10A	Rated Charge current
			20A	Maximum Charge current
	8.	Discharging Current	10A	Rated discharge current
			20A	Maximum discharge current
		Charging cut-off voltage :	14.6 V.	
	9.	Discharge cut-off voltage	10.0 V.	
	10.	Cycle Life	>2500 Cycles	The cycle life is defined as the number of complete charge/discharge cycle that the battery discharge to 80% capacity of its original capacity. Cycle life delivered at 25 degree C.
11.	Working temperature Range	-20 degree C to 60 degree C		
12.	Maximum depth of discharge	90%		
Note : Certificate of MNRE/BIS authorized test lab should be furnished.				
LIGHT SOURCE [LED Battens]	1.	Watt consumption	7 Watt	As per BIS
	2.	Maximum current drawn	0.8 Amp	
	3.	Minimum output Lumens	90 Lumen/watt	Permissible standard tolerance maximum 3%.
	4.	Total Electronic Efficiency :	>= 90%	
	5.	Colour Temperature Range	5500-6500 Degree K.	
<p>Note : 1. The illumination should be uniform without dark bands or abrupt variations, and soothing to the eye. Higher light output will be preferred. The light output from the white LED light source should be almost constant.</p> <p>2. The lamps should be housed in an assembly suitable for indoor use. The temperature of heat sink should not increase more than 30 degree Centigrade above ambient temperature even after 48 hrs of continuous operation. Heat Sink Material used in the LED batten should be of Aluminum in order to have good heat dissipation and thermal management for ensuring the better life of the luminaries with high quality Polycarbonate diffuser for achieving soft and glare free light.</p>				

	<p>3. Mid power LED of CREE /NICHIA /OSRAM / PHILIPS / LUMILEDS / LEDNIUM / LG Make or equivalent (Having LM79 and LM 80 test report) shall only be use.</p> <p>4. The LEDs should have life time (L70) of minimum 50,000 hrs as per LM80.</p> <p>5. The lumen depreciation of LED luminaire shall not be more than 30% at 35,000 burning hours.</p> <p>[LED shall comply with LM 80 standards and copy of test certificate should be submitted. The test certificate should be from NABL & MNRE accredited lab authorized for testing of LED Luminaries as LM 79 reports.]</p>			
MPPT Charge Controller :	1.	Charge controller Type :	Microprocessor Based Maximum Power Point Tracking (MPPT)	Certificate of authorized test lab should be furnished.
	2.	Charging Type :	CC-CV (buck charging)	
	3.	BMS Integration	The CCU should be compatible with BMS of LFP Battery.	
	4.	MPPT Solar Charge Controller Rating	12.8V, 20A	
	5.	Charging current range	10-20 A	
	6.	Solar Input Power	200Wp	
	7.	Idle Current [Self Consumption]	< 20mA.	
	8.	Indicators	Green----Charging under process, Yellow ----Battery discharged & Red ----System in fault.	
	9.	Battery Voltage Setup :	High Volt cutoff setting – 14.6V, Load disconnect at Battery low Volt : 11.5 Volt. Load Reconnect : 12.6 Volt.	
	10.	Protections :	<ul style="list-style-type: none"> • Surge • Overcharging/Deep discharging • Overload-Auto shutdown and restart at 50% battery level • Solar and Battery Reverse Protection • Reverse current from battery in Night. 	
DC Fan :	1.	Type of Fan	The fan should Non oscillating Table/Mini Pedestal fan 18-20 Watt - 12Volt DC operated.	
	2.	Type of Motor :	BLDC	
	3.	Rated voltage :	12V	
	4.	Operating voltage range :	11.2 Volt to 14.4 Volt.	
		Maximum Current consumption :	1.5 Amp	
	5.	Sweep Size :	300 mm (Minimum diameter)	
	6.	Blades:	Three leaves [Aluminum Powder Coated/Acrylonitrile Butadiene styrene(ABS)/Poly carbonate (PC) material]	

	7.	Power Consumption :	18-20 W at 1200 RPM	Certificate of authorized test lab should be furnished.
	8.	Bearings :	As per standards and requirement.	
	9.	Speed :	Three variable speeds	
	10.	Reverse Polarity Protection :	Should be provided.	
	11.	Noise level	< 30 DB.	
	12.	Air Flow/Thrust :	>120CM/M.	
	13.	Motor should be tested for :	1.Insulation test, 2.Temperature Rise test, 3.Reliability test and 4. Noise test :	
USB Port :	1.	Maximum Rating :	700 mA.	
TV Socket :	1.	Maximum Rating :	2 Amp.	
Module Mounting Pole and Structure	1.	Requirement :	As per drawing enclosed.	

DRAWING FOR INSTALLATION OF SOLAR PANEL FOR HOUSEHOLD STAND ALONE SYSTEM



Annexure-3(A)**A. SCHEDULE OF EXPERIENCE (Supply & Installation)**

(Please attach copies of work orders and satisfactory completion certificate from concerned agency for all items mentioned in this annexure)

S. No.	Details of works carried out in rural area through Off-grid SPV systems (SLS, PUMP, Minigrid except HLS/DLS,) :	Year	Deptt./Agency for which work carried out	Quantity supplied & installed.	Cost of works (in lakhs)	Documents attached at Page No.in the bid

Annexure-3(B)

S. No.	Details of Electrification works carried out in rural areas by supply & installing off-grid SPV DLS/HLS only.	Year	Deptt./Agency for which work carried out	Quantity supplied & installed.	Cost of works (in lakhs)	Documents attached at Page No.in the bid.

SIGNATURE & SEAL OF BIDDER

[Please refer section 6 – Prerequisite; to be eligible in this tender description of experience and qualifications per of annexure 3(A) & 3(B) is required].

Annexure- 3(C)**C. SCHEDULE OF EXPERIENCE (Sale & service Centres)**

(Details of after sale service existing in the state of Rajasthan)

S. No.	Name of Dealer/centre	Village	Tehsil	District	Name of contact Person & Phone Number

SIGNATURE & SEAL OF BIDDER**Annexure- 3(D)****D. SCHEDULE OF EXPERIENCE**

(Details of after sale service proposed in the state of Rajasthan)

S. No.	Name of Dealer/centre	Village	Tehsil	District

SIGNATURE & SEAL OF PROPOSER

PRICE SCHEDULE

Tenderer shall quote rates / costs in the format given below for supply, installation, commissioning & maintenance of off-grid SPV Home Lighting systems as per specifications (Annexure-2) and minimal technical requirements/standards specified in the MNRE off-grid guidelines under JNNSM and amended time to time complete with all accessories, auxiliaries and components F.O.R. site including installation, commissioning and FIVE YEARS free comprehensive maintenance.

S. No.	SPV System	Price offered for Supply of system FOR site unit rate inclusive of F&I and all taxes. (Rs./per system)	Price offered for Installation & Commissioning of the system (Rs./per system)	Price offered for five years comprehensive maintenance of system (Rs./per system)	GST on D&E (if any) (Rs./per System)	Total Price per system with all taxes . {G=C+D+E+F} (Rs./per system)	Total Qty. Offered (Nos.)	Total cost of offered Qty. Inclusive of Supply, F&I , installation and all taxes and duties with Comprehensive maintenance charges & service tax etc. (Rs.) [I=GxH]
A	B	C	D	E	F	G	H	I
1.	200 Wp SPV Home System (As per specifications)							
Total :								

- Note: (i) The offer is valid for six months from date of opening of tender.
(ii) Please refer **Para No: 9.16** of tender document for benefit of deduction in tax rates.
(iii) L-1 will be decided on the basis of column H of above table only.
(iv) **This format is for information only. All bidders are advised to submit their price offers online in cover-III only.**

**Signature of the Tenderer/
Authorised Signatory**

Joint Bidding/ Consortium Agreement Format for “Award &/ or Empanelment of Partners for Design, Supply, Installation, Commissioning and maintenance of “Off-Grid Solar Photovoltaic Home Systems ” in Rajasthan under Saubhagya Scheme (To be executed on Stamp Paper of INR 500/-)

THIS JOINT BIDDING AGREEMENT is entered into on thisday of2018.

BETWEEN

{....., lead member of consortium} and having its registered its registered office at _____ (Hereinafter referred to as the “**First Part**” which expression shall, unless repugnant to the context include its successors and permitted assigns)

AND

..... having its registered office at(Hereinafter referred to as the “**Second Part**” which expression shall, unless repugnant to the context include its successors and permitted assigns)

The above mentioned parties of the First and Second Part are collectively referred to as the “**Parties**” and each is individually referred as a “**Party**”

WHERE AS,

Rajasthan Renewable Energy Corporation (hereinafter referred to as the “**Corporation**” which expression shall, unless repugnant to the context or meaning thereof, include its administrators, successors and assigns) has invited applications (the “**Applications**”) by its NIT No: **RREC/UE HHS Electrification/Off-grid SPV HLS/Saubhagya/18-19/02, Dated: 01/8/2018** for award of the rate contract/ work under “ **Saubhagya Scheme**” (hereinafter called “**Project**”) in Rajasthan and empanelment for the same.

- i. The Parties are interested in jointly bidding for the Project as me NIT No: **RREC/UE HHS Electrification/Off-grid SPV HLS/Saubhagya/18-19/02, Dated: 01/08/2018** of consortium in accordance with the terms and conditions of the NIT document and other bid documents in respect of the Project, and
- ii. It is a necessary condition under the NIT document that the members of the Consortium shall enter into a Joint Bidding Agreement and furnish a copy thereof with the Application.

NOW IT IS HEREBY AGREED as follows: Definitions and Interpretations

In this agreement, the capitalized terms shall, unless the context otherwise require, have the Meaning ascribed thereto under the NIT No: **RREC/UE HHS Electrification/Off-grid SPV HLS/Saubhagya/18-19/02, Dated: 01/08/2018**.

1. Consortium

The Parties do hereby irrevocably constitute a consortium (the “**Consortium**”) for the purposes of jointly participating in the Bidding Process for the Project.

The Parties hereby undertake to participate in the Bidding Process only through this Consortium and not individually and/ or through any other consortium constituted for this Project, either directly or indirectly or through any of their Associates.

2. Role of the Parties

The Parties hereby undertake to perform the roles and responsibilities as described below:

- (a) Party of the First Part shall be the Lead member of the Consortium and shall have the power of attorney from all Parties for conducting all business for and on behalf of the Consortium during the Bidding Process & after it once selected as successful bidder.
- (b) Party of the First Part would be responsible for successful execution of all work awarded to them by RREC and in no circumstances the same shall be the responsibility of Second Part.
- (c) Party of the Second Part shall work in accordance to roles and responsibilities assigned to them from First Part as a part of their internal understanding.
- (d) Parties have agreed and documented clearly stated roles and responsibilities between First Part and Second Part for execution of work awarded by RREC.

3. Joint and Several Liabilities

The Party of the First Part does hereby undertake the responsibility for all obligations and liabilities relating to the Project and in accordance with the terms of NIT document.

4. Termination

This Agreement shall be effective from the date hereof and shall continue in full force and effect until the date of validity period of Award & /Or Empanelment and further in accordance with the Letter of Award subsequently issued if bid arrives as successful. However, in case the Consortium is either not pre-qualified for the Project or does not get selected for Award of the work, the Agreement will stand terminated in case the Applicant is not pre-qualified.

5. Miscellaneous

This Joint Bidding Agreement shall be governed by laws of India.

The Parties acknowledge and accept that this Agreement shall not be amended by Parties without the prior written consent of the Corporation.

Party of First Part would decide on the representative of Consortium at Corporation.

IN WITNESS WHERE OF THE PARTIES ABOVE NAMED HAVE EXECUTED AND DELIVERED THIS AGREEMENT AS OF THE DATE FIRST ABOVE WRITTEN.

SIGNED, SEALED AND DELIVERED For
and on behalf of
LEAD MEMBER by:

(Signature)

(Name)

(Designation)

(Address)

In Presence of :

Witness 1

Witness 2

SIGNED, SEALED AND DELIVERED
SECOND PART

(Signature)

(Name)

(Designation)

(Address)

Witness 1

Witness 2

RAJASTHAN RENEWABLE ENERGY CORPORATION LTD.

E-166, Yudhishtir Marg, C-Scheme, Jaipur.

TENDER FORM
[On the letter Head of the Firm]
To be submitted in Envelope-1 also

1. Subject: Tender for
2. Name and full postal address :
contact number and e-mail of the firm
submitting the proposal
3. To be addressed to:
Director (Technical),
Rajasthan Renewable Energy Corporation Limited,
E-166, Yudhishtir Marg, C-Scheme, Jaipur.
4. Reference(NIT No):

5. The fee as per tender has been submitted/deposited as under :

S.No.	Details	Amount	Details of submission :	Remarks, if any :
1.	Tender Cost	Rs. 5000/-		
2.	e-proc charges in favour of RISL	Rs.1000/-		
3.	EMD	As per Clause 9.1		

6. We agree to abide by all the conditions as mentioned in Tender document of NIT No:
....., Dated..... issued by the Director (Technical), RREC, Jaipur and (all the pages of which have been signed by us in token of acceptance of the terms mentioned therein).
7. All required documents and certificates are submitted herewith.

SIGNATURE OF TENDERER
WITH SEAL.

AGREEMENT

(On non-judicial stamp paper of GOR of value of 15000/- as under :)

- I. An agreement made this day of Between
 (hereinafter called the "approved supplier") which expression shall, where the context so admits, be deemed to include his/ hers successors, executors and administrators, of the one part and the Rajasthan Renewable Energy Corporation [RREC] (hereinafter called "the corporation") which expression shall, where the context so admits, be deemed to include his successors in office and assigns of the other part.
- II. Whereas the approved supplier M/s.has agreed with the Corporation to takeup the work under rate contract order no.....date.....and award of work order no.....date.....for work of Survey, design, supply, installation, testing commissioning and maintenance of the Off-Grid SPV Home Systems under the Saubhagya Scheme at the beneficiary's site in the State of Rajasthan in the allowed area. All those articles set forth as per tender document & the Work order issued by RREC at the rates set forth in the said schedule.
- And whereas the approved supplier has deposited as Security Deposit a sum of Rs. as Cash/Bank Draft/Banker Cheque/Bank Guarantee No. DatedWith adjustment of Rs. deposited vide DD/BC/BGNo.Dated :..... as EMD.
- III In consideration of the payment to be made by the Corporation through at the rates set forth in the Schedule hereto appended the approved supplier will duly supply the said articles set forth in And thereof in the manner set forth in the conditions of the tender and contract.
- IV The conditions of the tender and contract for open tender enclosed to the tender notice No. dated and also appended to this agreement will be deemed to be taken as part of this agreement and are binding on the parties executing this agreement.
- V Letters Nos. received from tenderer and letters Nos. issued by the corporation and appended to this agreement shall also form part of this agreement.
- VI We are abide by all terms and conditions as per bid documents and Rate contract.
- VII All disputes arising out of this agreement and all questions relating to the interpretation of this agreement shall be decided by the Corporation and the decision of the Corporation shall be final.

In witness where of the parties here to set their hands on the day of 2018.

Signature for and as behalf of
 RREC
 Date: Date:

Signature of the approved
 Supplier

Witness No. 1

1. Witness

Witness No. 2

2. Witness

UNDERTAKING TO BE SUBMITTED BY A FIRM FOR FAITHFULLY CARRYING OUT THE ASSIGNED WORK

In consideration of the MD, RREC, E-166, Yudhishtir Marg, C-Scheme, Jaipur (hereinafter called RREC) having authorised us (name of the supplier), office at (hereinafter called the supplier) for installation work of DLS / HLS in un-electrified villages/dhanies and on successful completion of the job (hereinafter referred as installation and maintenance of Solar PV Home Lighting Systems) and RREC having agreed to disburse the financial assistance due under the programme, Supplier does hereby undertake to carryout the RE work as per terms and condition of the RFP document and Work Order & letter of allocation issued to us by RREC.

We do hereby further undertake that in case we are unable to carryout out duties as undertaken above, RREC would have the right to forfeit the entire /EMD/security amount deposited by us for the said work with them.

We at (Name of the firm) further agree that the undertaking herein contained shall remain in full force and effect for the period of the year from the date of this undertaking or for such period for which this undertaking is executed.

Dated this day of 2018.

Signature of the constituted
Attorney of M/s.

**Format of Agreement between beneficiary and supplier for maintenance of
SPV off-grid Home system under Saubhagya Scheme.**

अनुबन्ध पत्र

(राजस्थान अक्षय ऊर्जा निगम के ग्रामीण विद्युतिकरण हेतु “ सौभाग्य योजना ” के अन्तर्गत एस.पी.वी. उपकरण सप्लायर व लाभान्वित के मध्य स्थापना व संधारण के लिए किये जाने वाला अनुबन्ध पत्र)

आज दिनांकको मैं0.....(सप्लायर) व श्रीपुत्र श्री.....
.....निवासी.....जिला.....क्रय किये जाने वाले 200 वॉट एस.पी.वी. सौर
गृह प्रकाश उपकरण की स्थापना के संबंध में यह अनुबन्ध निम्न शर्तों के साथ किया जा रहा है:-

यह उपकरण राजस्थान अक्षय ऊर्जा निगम द्वारा प्रायोजित **सौभाग्य योजना 2018-19** के तहत लगाया जा रहा है/गया है।
सामान्य शर्तें व विभिन्न पक्षों के दायित्व:-

(1) सप्लायर के दायित्व:-

1. प्रत्येक चयनित लाभार्थी राजस्थान राज्य का निवासी होना चाहिए ।
2. सप्लायर,लाभान्वित से उसकी हिस्से राशि एकत्रित करेगा व राजस्थान अक्षय ऊर्जा निगम को सूचित करेगा ।
3. सप्लायर द्वारा कार्यादेश के संबंधित संलग्नक के अनुसार पूर्ण सिस्टम की स्थापना की जावेगी ।
4. (i) राजस्थान अक्षय ऊर्जा निगम शर्तानुसार उपकरण स्थापना पश्चात् लाभार्थी को संभालने (Handing Over) के दिन उपकरण पूर्णतया कार्यशील होगा व कोई हिस्सा टूटा-फूटा या बेकार नहीं होगा ।
(ii) सप्लायर लाभार्थी को देव नागरी लिपि में सिस्टम की पूर्ण जानकारी एवं क्या करें क्या ना करें तथा संचालन मेनुअल उपलब्ध करवाएंगे ।
5. इस उपकरण में वो सब सुविधायें/पार्ट्स होंगे जो कार्यादेश के संबंधित संलग्नक में दिये गये हैं ।
6. उपकरण लगाने से पाँच वर्ष के भीतर ही सिस्टम खराब होने पर सप्लायर द्वारा उपकरण को ठीक कर क्रियाशील करना होगा। जिसके लिए यदि नया उपकरण लगाना पड़े तो भी सप्लायर को लगाकर उपकरण क्रियाशील करना होगा, जिसमें बैटरी भी सम्मिलित है ।
7. सप्लायर के कर्मचारी बैटरी को नियमित रूप से जांचेंगे लाभार्थी को उपकरण एवं बैटरी के maintenance के सम्बन्ध में पूर्ण जानकारी एवं प्रशिक्षण देंगे ।
8. सप्लायर अपने कर्मचारियों /एजेन्ट को इस कार्य के लिए तहसील मुख्यालय (or at proper place) पर नियुक्त रखेंगे जिससे लाभार्थी इनसे सीधे सम्पर्क रख सकेंगे ।
9. सप्लायर के कर्मचारियों/एजेन्ट को पहचान पत्र देकर रखेंगे जो दिखाने पर ही लाभान्वित उनको निवास स्थान पर प्रवेश करने देगा ।
10. इस संबंध में राजस्थान अक्षय ऊर्जा निगम के प्रबन्ध निदेशक का फ़ैसला अन्तिम व मान्य होगा ।

(2) लाभान्वित के दायित्व:-

1. लाभान्वित सप्लायर को सिस्टम की कार्यादेश में दर्शाई गई भारत सरकार एवं राज्य सरकारद्वारा देय अनुदान राशि के अतिरिक्त लाभार्थी हिस्सा राशि का ही भुगतान करेगा ।
2. लाभान्वित उनके निवास पर लगे सिस्टम को उपकरण की क्षमतानुसार निर्देशित उपकरणों को चलाने के उपयोग में ही लेगा। लाभार्थी निर्देशित उपकरणों के अतिरिक्त क्षमता के उपकरणों को उपयोग में नहीं लेगा।
3. यदि लाभार्थी उपकरण के साथ निर्देशों के विपरित किसी प्रकार की अवांछित छेड़-छाड़ जैसे स्थानान्तरण , दूसरी बैटरी चार्ज करना, बैटरी को दूसरे काम में लेना सिद्ध होने पर, उपकरण की पाँच वर्ष की गारन्टी स्वतः ही समाप्त मानी जाएगी।
4. लाभान्वित सिस्टम खराब होने पर सप्लायर के कर्मचारियों को सूचित करेंगे न कि स्वयं सिस्टम को ठीक करने का प्रयास करेंगे ।
5. सी.एफ.एल. फ्यूज होने पर लाभान्वित या तो स्वयं खरीद कर सप्लायर द्वारा बदलवायेंगे या सप्लायर को नई सीएफएल की लगाने की राशि देंगे ।
6. लाभान्वित उपकरण को प्रतिदिन 6 घन्टों से ज्यादा प्रयोग में नहीं लेंगे ।
7. सप्लायर द्वारा रख-रखाव न करने पर परियोजना अधिकारी, राजस्थान अक्षय ऊर्जा निगम को तत्काल सूचित करेंगे ।
8. लाभान्वित लगाये गये उपकरण की सुरक्षा के लिए पूर्णतया जिम्मेदार होगा व चोरी होने पर पुलिस में तत्काल एफआईआर दर्ज करा के निगम को सूचित करेगा ।

सप्लायर के अधिकृत प्रतिनिधि

नाम.....
पद.....
विभाग.....

लाभान्वित श्री.....
पुत्र श्री.....
क्या अनुजाति/जनजाति के
सदस्य है.....
ग्राम.....
ग्राम0पं0.....
पंचायत समिति.....
जिला

Mobile Number of beneficiary:

प्रमाण-पत्र

प्रमाणित किया जाता है कि श्री.....पुत्र श्री.....निवासी..... जिला.
.....के यहाँ मैसर्स.....द्वारा वॉट एस.पी.वी. मोड्यूल क्षमता के संयंत्र की स्थापना
“ सौभाग्य योजना ” के अन्तर्गत की गई है, यह उपकरण लाभार्थी द्वारा निर्देशित उपयोग में कार्य लिया जावेगा। यह अनुबन्ध पत्र
लाभार्थी एवं सप्लायर/सप्लायर एजेंट के मध्य दिनांक.....को निम्न हस्ताक्षरकर्ता की उपस्थिति में किया गया ।

हस्ताक्षर मय सील
संरपंच/उप संरपंच/ग्राम सेवक/
स्थानीय राजकीय स्कूल अध्यापक

उपकरण स्थापना एवं अनुबन्ध पत्र प्रमाणित

परियोजना अधिकारी,
राजस्थान अक्षय ऊर्जा निगम,
मुख्यालय

Format for system installation verification from beneficiary, Local representative
& Project Officer, RREC.

उपकरण स्थापना प्रमाण-पत्र

प्रमाणित किया जाता है कि लाभार्थी श्रीपुत्र श्रीनिवासी
.....जिला.....के निवास पर मैसर्स
.....के अधिकृत सप्लायर द्वारा “सौभाग्य योजना” के अन्तर्गत एक एस.पी.वी. उपकरण (200 वॉट)
की स्थापना दिनांकको की गई है जो मेरे द्वारा देख ली गई है, यह सुचारू रूप से कार्य कर रही
है । फर्म द्वारा लाभार्थी को एक देव नागरी लिपी का मैनुअल, अनुबन्ध पत्र एवं सेवा केन्द्रों तथा सम्पर्क करने
वाली अधिकारीगण की सूची उपलब्ध करा दी गई है ।

हस्ताक्षर लाभार्थी

हस्ताक्षर मय सील
संरपंच/उप संरपंच/ग्राम सेवक/
जिला परिषद सदस्य/स्थानीय राजकीय स्कूल अध्यापक

राजस्थान अक्षय ऊर्जा निगम के परियोजना अधिकारी की रिपोर्ट

मैंपरियोजना अधिकारी, राजस्थान अक्षय ऊर्जा निगम.....उपरोक्त वर्णित एस.
पी.वी. उपकरण की स्थापना बाबत् लाभार्थी के संयंत्र का व्यक्तिशः निरीक्षण उपरान्त प्रमाणित करता हूँ कि :-
(i) एस.पी.वी. उपकरण सही प्रकार के टेण्डर में वर्णित स्पेसिफिकेशन एवं निविदा शर्तों के अनुसार स्थापित
किया गया है ।
(ii) लाभार्थी के निवास पर स्थापित उपकरण (200 वॉट क्षमता) सही हालत में कार्यरत है ।
(iii) उपरोक्त वर्णित उपकरण स्थापना पर कार्य के प्रमाणन अनुसार अनुदान राशि रु.अक्षरे.....
.....की निविदा शर्तों के अनुरूप भुगतान किये जाने की अनुशंसा करता हूँ ।

हस्ताक्षर परियोजना अधिकारी
मय सील

नोट: लाभार्थी के निवास पर स्थापित उपकरण निविदा शर्तों के अनुसार जाँच उपरान्त हस्ताक्षर कर इस प्रमाण पत्र
को साथ संलग्न की जावे । ।

FORMAT OF INSTALLATION CERTIFICATE

RST No:	M/s.....	Phone No:
CST No:	Address:	Fax No:
TIN No:		E-mail

INSTALLATION CERTIFICATE**Date Of Installation:****Subsidy claim Note No:**

Name of Beneficiary :		Father/Husband Name :	
Mobile Number:		ID details :	
Resident of Village:		Gram Panchayat :	
Panchayat Samiti :		Name of District :	
Caste Group: Gen/SC/ST/OBC :			

Certified that 200 Watt PV Capacity Off-grid SPV Home Lighting system in reference to RREC work order No:..... Dated:..... has been installed and commissioned at the place of beneficiary mentioned above and the system has been handed over to the beneficiary in good working condition. The details of material supplied and installed are as under :

S.No.	Item:	Quantity	Make	Serial Numbers.
1.	SPV Module of 200 Wp.	1 No.		
2.	Battery(LiFePO4) 12.8V, 80Ah.	1 No.		
3.	Battery Box	1 No.		
4.	LED Fixtures 7 Watt each.	5 Nos.		
5.	DC Fan (15-18 Watt)	1 No.		
6.	MPPT Charge Controller	1 No.		
7.	TV Socket	1 No.		
7.	Pole & Module frame :	1 No.		
8.	Cable			
9.	Mobile Charger	1 No.		
10.	Other item....			

Signature of Beneficiary:

Signature of representative of Firm/dealer who installed the system
(Name:Mob. No:)

Signature of Firm's authorised Person
With seal.

PO, RREC verification.
(Name with Seal)

Format of Subsidy Claim Note**Subsidy Claim Note No:**

Date:

To,
 Managing Director,
 Rajasthan Renewable Energy Corp.Ltd.,
 E-166, Yudhisthir Marg, C-Scheme,
 Jaipur.

Please arrange to release subsidy to M/s ----- against supply, installation and commissioning of Off-grid SPV Home Lighting Systems in reference to RRECL, Jaipur work order/Target Allocation letter No. ----- -dated----- under “Saubhagya Yojana : 2018-19 ” in -----district by -----(self or name of authorised dealer of firm) . Details as detailed under:

S. No.	Name of Beneficiary :	Invoice No. & Date	Name of Village/Dhani	Gram Panchayat:	Panchayat Samiti	Off-grid SPV HLS Model	Subsidy claim amount
						Total	

Schedule Cast	Schedule Tribe	General	OBC	Total	Authorized Signature with seal of Empanelled vendor

Certificate from Project Officer, RRECL

Following are certified in reference to RRECL PO referred above for supply, installation & commissioning of ----Nos. Off-grid SPV Home Lightingsystems:

1. A contract (including maintenance agreement) as per the format at Annexure -9 of Tender Document has been executed with the beneficiary.
2. The material has been supplied in good condition as per technical specification of tender document/work order.
3. The work has been completed within stipulated period / with a delay of ----- days.
4. Instruction Manual, Guarantee Card & Money Receipt has been provided to beneficiaries.
5. System has been installed at beneficiary site and working satisfactory.
6. Village wise details of installation is as per above statement.

Verified for payment of Rs. -----/- (Rs.-----) as per terms and condition of work RREC order.

Signature of Project Officer,
 RRECL, with Name & seal

Declaration of material proposed for 200 Wp Off-grid SPV Home system supply under Saubhagya Scheme by the Tenderer:

Item S.No.	Detail of material proposed for supply for different models:	Make	Tested from..... { Enclose the test certificate}
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
.....			

SIGNATURE OF AUTHORISED
SIGNATORY WITH SEAL

**Compliance with the Code of integrity
and No Conflict of interest****RTPP:****Rule 80. Code of integrity.-** (1) All the officers or employees of the procuring entity shall,-

- (a) maintain an unimpeachable standard of integrity both inside and outside their office;
- (b) act in accordance with the provisions of the Act, these rules, guidelines issued under the Act and instructions;
- (c) not allow any bidders to have access to information on a particular procurement, before such information is available to the public at large;
- (d) not intentionally use unnecessarily restrictive or “tailored” specifications, terms of reference or statements of work that can discourage competition;
- (e) not solicit or accept any bribe, reward or gift or any material benefit of any directly or indirectly promise of future employment from anyone, who has sought or is seeking procurement from the procuring entity;
- (f) not have a financial interest in any bidder(s) responding to a procuring entity’s bidding process and any person having financial interest in any bidder shall not participate in that procurement process;
- (g) not disclose proprietary and source selection information, directly or indirectly, to any person other than a person authorised to receive such information;
- (h) treat all bidders in a fair and equitable manner in line with the principle of fairness, integrity and transparency in the procurement process;
- (i) provide all bidders identical information at the same time, during the bidding process;
- (j) apply the same criteria of evaluation as specified in the bidding documents, bidder registration documents or pre-qualification documents and under no circumstances new evaluation criteria shall be introduced during the evaluation process;
- (k) not entertain any favour, recreation, presents, services, etc. from the bidders or prospective bidders;
- (l) protect the interests of the procuring entity under all circumstances while dealing with information and information sources;
- (m) maintain confidentiality of all bids;
- (n) ensure that the selection of bidder is as per the bidding documents and is not influenced by personal reasons attributable to concerned officials in any manner; and
- (o) disclose conflict of interest, if any.

(2) Any person participating in procurement process shall,-52

- (a) not offer any bribe, reward or gift or any material benefit either directly or indirectly in exchange for an unfair advantage in procurement process or to otherwise influence the procurement process;
- (b) not misrepresent or omit information that misleads or attempts to mislead so as to obtain a financial or other benefit or avoid an obligation;
- (c) not indulge in any collusion, bid rigging or anticompetitive behaviour to impair the transparency, fairness and progress of the procurement process;
- (d) not misuse any information shared between the procuring entity and the bidders with an intent to gain unfair advantage in the procurement process;
- (e) not indulge in any coercion including impairing or harming or threatening to do the same, directly or indirectly, to any party or to its property to influence the procurement process;
- (f) not obstruct any investigation or audit of a procurement process;
- (g) disclose conflict of interest, if any; and
- (h) disclose any previous transgressions with any entity in India or any other country during the last three years or any debarment by any other procuring entity.

Rule 81. Conflict of interest.- (1) A conflict of interest for procuring entity or its personnel and bidders is considered to be a situation in which a party has interests that could improperly influence that party’s performance of official duties or responsibilities, contractual obligations, or compliance with applicable laws and regulations.

(2) The situations in which a procuring entity or its personnel may be considered to be in conflict of interest includes, but not limited to, following:-

- (a) A conflict of interest occurs when procuring entity’s personnel’s private interests, such as outside professional or other relationships or personal financial assets, interfere or appear to interfere with the proper performance of its professional functions or obligations as a procurement official.

(b) Within the procurement environment, a conflict of interest may arise in connection with such private interests as personal investments and assets, political or other outside activities and affiliations while in the service of the procuring entity, employment after retirement from the procuring entity's service or the receipt of a gift that may place the procuring entity's personnel in a position of obligation.

(c) A conflict of interest also includes the use of procuring entity's assets, including human, financial and material assets, or the use of procuring entity's office or knowledge gained from official functions for private gain or to prejudice the position of someone procuring entity's personnel does not favour.

(d) A conflict of interest may also arise in situations where procuring entity's personnel is seen to benefit, directly or indirectly, or allow a third party, including family, friends or someone they favour, to benefit from procuring entity's personnel's actions or decisions.

(3) A Bidder may be considered to be in conflict of interest with one or more parties in a bidding process if, including but not limited to:-

(a) they have controlling partners in common; 53

(b) they receive or have received any direct or indirect subsidy from any of them;

(c) they have the same legal representative for purposes of the bid;

(d) they have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another;

(e) A bidder participates in more than one bid in the same bidding process. However, this does not limit the inclusion of the same sub-contractor, not otherwise participating as a bidder, in more than one bid; or

(f) A bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the subject matter of procurement of the bidding process. All bidders shall provide in Qualification Criteria and Bidding Forms, a statement that the bidder is neither associated nor has been associated directly or indirectly, with the consultant or any other entity that has prepared the design, specifications and other documents for the subject matter of procurement or being proposed as Project Manager for the contract.

Rule 82. Breach of code of integrity by the bidder.- Without prejudice to the provisions of Chapter IV of the Act, in case of breach of any provision of the code of integrity by a bidder or prospective bidder, as the case may be, the procuring entity may take appropriate action in accordance with the provisions of subsection (3) of section 11 and section 46.

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Declaration by the Bidder regarding Qualifications

In relation to my/our Bid submitted to.....for procurement of..... in response to their Notice Inviting Bids No..... Dated I/we hereby declare under Section 7 of Rajasthan Transparency in Public Procurement Act, 2012, that:

1. I/we possess the necessary professional, technical, financial and managerial resources and competence required by the Bidding Document issued by the Procuring Entity;
2. I/we have fulfilled my/our obligation to pay such of the taxes payable to the Union and the State Government or any local authority as specified in the Bidding Document;
3. I/we are not insolvent, in receivership, bankrupt or being wound up, not have my/our affairs administered by a court or a judicial officer, not have my/our business activities suspended and not the subject of legal proceedings for any of the foregoing reasons;
4. I/we do not have, and our directors and officers not have, been convicted of any criminal offence related to my/our professional conduct or the making of false statements or misrepresentations as to my/our qualifications to enter into a procurement contract within a period of three years preceding the commencement of this procurement process, or not have been otherwise disqualified pursuant to debarment proceedings;
5. I/we do not have a conflict of interest as specified in the Act, Rules and the Bidding Document, which materially affects fair competition;

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Date:

Name :

Designation:

Address:

Grievance Redressal during Procurement Process

The designation and address of the First Appellate Authority is Managing Director RRECL Jaipur
The designation and address of the Second Appellate Authority is Chairman, RREC, Jaipur.

Appeals**RTPP Rule 83. Form of Appeal.-**

- (1) An appeal under sub-section (1) or (4) of section 38 shall be in Form along with as many copies as there are respondents in the appeal.
- (2) Every appeal shall be accompanied by an order appealed against, if any, affidavit verifying the facts stated in the appeal and proof of payment of fee.
- (3) Every appeal may be presented to First Appellate Authority or Second Appellate Authority, as the case may be, in person or through registered post or authorised representative.

Rule 84. Fee for filing appeal.-

- (1) Fee for first appeal shall be rupees two thousand five hundred and for second appeal shall be rupees ten thousand, which shall be nonrefundable.
- (2) The fee shall be paid in the form of bank demand draft or banker's cheque of a Scheduled Bank payable in the name of Appellate Authority concerned.

Rule 85. Procedure for disposal of appeal.-

- (1) The First Appellate Authority or Second Appellate Authority, as the case may be, upon filing of appeal, shall issue notice accompanied by copy of appeal, affidavit and documents, if any, to the respondents and fix date of hearing.
- (2) On the date fixed for hearing, the First Appellate Authority or Second Appellate Authority, as the case may be, shall,-
 - (a) hear all the parties to appeal present before him; and
 - (b) peruse or inspect documents, relevant records or copies thereof relating to the matter.
- (3) After hearing the parties, perusal or inspection of documents and relevant records or copies thereof relating to the matter, the Appellate Authority concerned shall pass an order in writing and provide the copy of order to the parties to appeal free of cost.
- (4) The order passed under sub-rule (3) shall also be placed on the State Public Procurement Portal.

Rule 86. Repeal and savings.- All rules, regulations, orders, notifications, departmental codes, manuals, by-laws, official memoranda or circulars relating to procurement of goods, services or works provided for in these rules, which are in force on the date of commencement of these rules, in relation to the matter covered by these rules are hereby repealed to the extent they are covered by these rules:

Provided that such repeal shall not affect the previous operation of rules, regulations, orders, notifications, departmental codes, manuals, by-laws, official memoranda or circulars, so repealed and the procurement process commenced before the commencement of these rules shall continue

as per the provisions of rules, regulations, orders, notifications, departmental codes, manuals, by-laws, official memoranda or circulars, so repealed.

FORM No. 1
[See rule 83]

Memorandum of Appeal under the Rajasthan Transparency in Public Procurement Act, 2012

Appeal Noof Before the(First / Second Appellate Authority)

1. Particulars of appellant:

- (i) Name of the appellant:
- (ii) Official address, if any:
- (iii) Residential address:

2. Name and address of the respondent(s):

- (i)
- (ii)
- (iii)

3. Number and date of the order appealed against and name and designation of the officer / authority who passed the order (enclose copy), or a statement of a decision, action or omission of the procuring entity in contravention to the provisions of the Act by which the appellant is aggrieved:

4. If the Appellant proposes to be represented by a representative, the name and postal address of the representative:

5. Number of affidavits and documents enclosed with the appeal:

6. Grounds of appeal:

.....

(Supported by an affidavit)

7. Prayer:

.....

Place

Date

Appellant's Signature

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Additional Conditions of Contract**1. Correction of arithmetical errors**

Provided that a Financial Bid is substantially responsive, the Procuring Entity will correct arithmetical errors during evaluation of Financial Bids on the following basis:

- i. if there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected, unless in the opinion of the Procuring Entity there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price shall be corrected;
- ii. if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
- iii. if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (i) and (ii) above.

If the Bidder that submitted the lowest evaluated Bid does not accept the correction of errors, its Bid shall be disqualified and its Bid Security shall be forfeited or its Bid Securing Declaration shall be executed.

2. Procuring Entity's Right to Vary Quantities

- (i) At the time of award of contract, the quantity of Goods, works or services originally specified in the Bidding Document may be increased or decreased by a specified percentage, but such increase or decrease shall not exceed twenty percent, of the quantity specified in the Bidding Document. It shall be without any change in the unit prices or other terms and conditions of the Bid and the conditions of contract.
- (ii) If the Procuring Entity does not procure any subject matter of procurement or procures less than the quantity specified in the Bidding Document due to change in circumstances, the Bidder shall not be entitled for any claim or compensation except otherwise provided in the Conditions of Contract.
- (i) In case of procurement of Goods or services, additional quantity may be procured by placing a repeat order on the rates and conditions of the original order. However, the additional quantity shall not be more than 25% of the value of Goods of the original contract and shall be within one month from the date of expiry of last supply. If the Supplier fails to do so, the Procuring Entity shall be free to arrange for the balance supply by limited Bidding or otherwise and the extra cost incurred shall be recovered from the Supplier.

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