RAJASTHAN RENEWABLE ENERGY CORPORATION LIMITED

Tender Document

FOR

THE WORK OF SUPPLY, INSTALLATION, TESTING, COMMISSIONING & COMPREHENSIVE MAINTENANCE FOR 5 YEARS OF OFF-GRID SOLAR PHOTOVOLTAIC SYSTEMS OF “8 kW PV CAPACITY WITH BATTERY BANK” IN 12 Nos. SCHOOLS OF DIFFERENT DISTRICTS IN RAJASTHAN.

NIT No: RREC/Off-grid SPV PPs./Schools/2017-18/02,
Dated: 26/12/2017.

Note: Tender document cost: Rs. 1000/-
This tender by RREC is for selection of vendors for the work of supply, installation, testing, commissioning of 8kW SPV off-grid Systems (Total 12 Nos. schools of Rajasthan Council of Secondary Education in Karauli, Jaisalmer, Pali, Pratapgarh & Barmer districts) in Rajasthan.

M/s. ________________________
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NOTE:
(i) This document is not transferable.
(ii) Though adequate care has been taken while preparing the tender Documents, the Bidder shall satisfy himself 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 understood completely by the Bidder.
(iii) The Rajasthan Renewable Energy Corporation Limited (RREC) may modify, amend or supplement this tender Document including Capacity Allocation.
(iv) The selection of Bidders shall be carried out through e-procurement process. Proposal/Bids are to be submitted online in electronic format on website http://eproc.rajasthan.gov.in as per tender document.
(v) Please see regularly our website www.energy.rajasthan.gov.in/rrecl/ for latest up-date after issue of this tender. All modification / amendment / clarification / information etc. shall be available on the website of e-proc. only.
(vi) RREC may at its discretion, extend the deadline for submission of the Proposals.
(vii) Correspond at:-
The Managing Director,
Rajasthan Renewable Energy Corporation Ltd.,
E-166, Yudhisthir Marg, C-Scheme,
Jaipur (Raj.), 302001
Tel: 0141-2221650 / 2229341 / 2229055
Fax: 0141-2226028
Email:rrec2016@gmail.com.
Brief of Schedule of Dates of Tender:

| Programme & detail of work                                                                 | Supply, Installation, testing, Commissioning and Maintenance for 5 Years of 8kW SPV off-grid Systems with Battery at schools in different districts of Rajasthan. |
| Work Area:                                                                                 | Karauli, Jaisalmer, Pali, Pratapgarh, & Barmer districts of Rajasthan. |
| NIT No:                                                                                     | NIT No: RREC/Off-grid SPV PPs. /Schools/2017-18/02, Dated: 26/12/2017. |
| Estimated Capacity of Project                                                                | 12 Nos. of 8 kW PV capacity each. |
| Estimated Project Cost:                                                                      | Rs. 87 Lakh (96 KW PV Capacity in Total) |
| Earnest Money Deposit:                                                                      | Rs. 1.75 Lakh |
| Date of downloading { The tender can be downloaded from website http://eproc.rajasthan.gov.in } | 31st day, December, 2017, 12.30 p.m. to 15th January, 2018, 5.00 p.m. |
| Last Date of online submission of Tender                                                      | 15th January, 2018, upto 5.00 p.m. |
| Date of submission of Envelope-1 at RREC Head Office { in Hard Copy }                          | 15th January, 2018, upto 5.30 p.m. |
| Date of Opening of online Technical bid (Cover-1 & Cover-2)                                  | 16th January, 2018, at 2.30 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.                                                                  | In FOUR Months from date of award of work. |
| Cost of Tender:                                                                             | Rs. 1000/- 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](http://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 hereunder:

1. The bidders are requested to submit their bids prior to the 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 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 will have to deposit in Envelope-1, (i) the prescribed cost of tender and EMD by way of DD/Banker's Cheque in favour of The Managing Director, RREC, payable at Jaipur; (ii) the prescribed Processing Fee of RISL by way of DD/Banker's Cheque in favour of Managing Director, RajCOMP Info Services Ltd. (RISL), payable at Jaipur. It should be noted that scanned copies of these documents should be uploaded in cover-1 online essentially.

4. The Cover-1 will be opened on 16/01/2017 at 2.30 P.M., in the presence of bidders who wish to be present. Please note that in case DD/Pay order (payable at Jaipur) 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, 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 financial 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:

12.1 List of required Formats/documents to be submitted online duly signed digitally by Authorized Signatory:
   1) Cover-1: Upload the scanned copy of DD/Pay Order towards Cost of tender document, processing fee of RISL and EMD (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.

NOTE:

The financial bid is to be submitted as per formatAnnexure-4. 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 Person:

| Mr. S.K. Baswal,                      | Mr. Sunit Mathur,                      | Mr. K.C. SONI,                      |
| Director (Technical), RREC, E-166, Yudhisthir Marg, C-Scheme, Jaipur-302001, Rajasthan. 0141-2229341, Email: rrec2016@gmail.com | GM (RE&O), E-166, Yudhisthir Marg, C-Scheme, Jaipur - 302001, Rajasthan. Fax: 0141- 2226028 Email:sunitmathur2016@gmail.com | PM (RE&O), RREC, E-166, Yudhisthir Marg, C-Scheme, Jaipur - 302001, Rajasthan. Fax: 0141- 2226028 Email: recsoni15@gmail.com |
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SECTION – 1

INTRODUCTION & ABREVIATIONS

1. Background

With the help of funding from Rajasthan Council of Secondary Education, Jaipur&Financial Assistance from MNRE under their Off-grid SPV and decentralised Solar application programme under JNNSM. RREC wishes to select competent, experienced and financially sound manufacturers / suppliers to supply, install, commissioning and to maintain Solar Photovoltaic 12 nos. Off-grid Systems of 8kW PV capacity each in 12 Nos. Model schools of Karauli, Jaisalmer, Pali, Pratapgarh, & Barmer districts of Rajasthan as per list (Annexure-14). RREC would release the payment (RCSE share &MNRE subsidy) to the eligible manufacturer/supplier after installation of systems as per terms and conditions of this tender.

Above work is to be carried out on ‘Turn Key Basis’ which includes supply of SPV systems with all accessories and equipments, installation, testing, commissioning and maintenance thereof for five years. Presently proposed quantity is of 8kW (12 Nos.) PV capacity with battery back up. This quantity may further increase as per availability of allocations of funds for this programme from GoI and Rajasthan Council of Secondary Education, Jaipur.

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, testing and commissioning cost and taxes etc. shall be inclusive to 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 supply, install, test, commission systems and provide maintenance services for 5 years. They should provide a tollfree/customer care number for people to call incase of feedback/complaints and for providing effective maintenance. They shall also be required to set up their repair and maintenance centres for providing effective repair/maintenance services to the beneficiaries / users and meet conditions given in Section 2.

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

(i) The supplier shall be allowed to install the systems conforming to the MNRE specifications / guidelines after authorisation by RREC.

(ii) The supplier may submit cost/subsidy to Rajasthan Council of Secondary Education, Jaipur and then to RREC by submitting complete documents along with full addresses, and makes and serial numbers of systems & PV modules supplied along with the photographs of installed system duly verified jointly by RREC’s field Project Officer and authorised Principal/Head Master of school of Rajasthan Council of Secondary Education, Jaipur.
2. Abbreviations / Terms:

i) RREC : Rajasthan Renewable Energy Corporation Limited
ii) Manufacturers : Manufacturers of SPV Systems (Meeting technical specification and other parameters specified by MNRE).
iii) Channel Partners: MNRE Approved Channel Partners.
iv) RFP : Request for Proposal.
v) EMD : Earnest Money Deposit.
vi) SD : Security Deposit.
ix) Proposer : Tender/Bidder/Applicant. Tender/Bidder/Applicant.
x) Cost of System : Total of Price of System.
xii) Amount payable by RREC: Subsidy amount only.
xiii) Subsidy : Capital cost support as sanctioned by MNRE, GoI.
xiv) CMC: Comprehensive Maintenance Contract {Which includes maintenance of system with replacement of parts( including Battery) free of cost}.

SIGNATURE OF AUTHORISED SIGNATORY WITH SEAL
SECTION – 2

SCOPE OF WORK AND FUNDING PATTERN

Scope of work covers supply / installation / testing / commissioning of SPV Systems (8kW PV capacity with battery backup) in 12 Model schools offKarauli, Jaisalmer, Pali, Pratapgarh, & Barmer districts of Rajasthan (As per list of schools attached) conforming to technical specification enumerated in relevant JNNSM guidelines and amended from time to time. Detailed scope of work is given here under:-

2.1 Work of installation of off-grid SPV Systems shall involve:
   (a) Entering into supply and comprehensive maintenance contract (CMC) agreements with school and Rajasthan Council of Secondary Education, Jaipur. CMC shall be for five years to cover all maintenance of the system including replacement of parts free of cost. Replacement of parts shall be against manufacturing defect and performance issues.
   (b) Completion of work of supply, installation, commissioning and testing as per time schedule given.
   (c) The supplier shall also take comprehensive insurance of the system for 5 years.
   (d) Establishing “After sales service centres” in concerned area to cater the maintenance needs and provide toll free/complaint number to beneficiary schools.
   (e) Supplier shall take insurance policy for the system against damage, theft during transit of the system and theft, burglary and natural disaster with his cost compulsorily for 5 years period. If such cases arises, supplier will be responsible to replace the system/part within three months period to make the system operational.

2.2.1 The Project cost shall include all the costs related to above Scope of work. Bidder shall quote for the entire facilities on a “single responsibility” basis such that the total Bid Price shall cover the obligations mentioned in the Bidding Documents in respect of Design, Supply, Erection, Testing and Commissioning including Warranty, Operation & Maintenance for a period of 5 years goods and services including spares required if any, during the O&M period. The Bidder has to take all permits, approvals and licenses, insurance etc., provide training and such other items and services required to complete the scope of work mentioned above.

2.2.2 The price quoted is on lump sum turnkey basis including all taxes & duties applicable and the bidder is responsible for the total scope of work described as above.

2.2.3 The project cost shall remain firm and fixed and shall be binding on the Successful Bidder till completion of work for payment irrespective of his actual cost of execution of the project. No escalation will be granted on any reason what soever. The bidder shall not be entitled to claim any additional charges, even though it may be necessary to extend the completion period for any reasons what soever.

2.2.4 The cost shall be inclusive of all duties and taxes, insurance etc. The prices quoted by the firm shall be complete in all respect and no price variation/adjustment shall be payable.
2.2.5 The operation & maintenance of Solar Photo voltaic Power Plant would include warranty against wear, tear, overhauling, machine breakdown, insurance, and replacement of defective modules, invertors/ Power Conditioning Unit(PCU), Batteries, spares, consumables & other parts for a period of 5 years.

2.2.6 The **Project cost** shall be specified by the successful **Bidder's quote & kW SPV Power Plants for project**. The project cost shall be in accordance with all terms, conditions, specifications and other conditions of the Contract as accepted by the RREC and incorporated in the work order.

2.2.7 The Bidder shall be responsible and take an Insurance Policy for transit-cum- storage-cum-errection for all the materials to cover all risks and liabilities for supply of materials on site basis, storage of materials at site, erection, testing and commissioning. **The bidder shall also take appropriate insurance during O&M period, if required.**

2.2.8 The Bidder shall also take insurance for Third Party Liability covering loss of human life, engineers and work men and also covering the risks of damage to the third party / material/ equipment/ properties during execution of the Contract. Before commencement of the work, the Bidder will ensure that all its employees and representatives are covered by suitable insurance against any damage, loss, injury or death arising out of the execution of the work or in carrying out the Contract. Liquidation, Death, Bankruptcy etc., shall be the responsibility of bidder.

2.3 **FUNDING PATTERN**:

70% of system cost or 70% of system cost plus balance required after deducting MNRE admissible CFA (whichever is more) from Rajasthan Council of Secondary Education, Jaipur and remaining as per JNNSM guidelines, Ministry of New and Renewable Energy, GOI is providing 30% of cost of system will be funded/payable for this project. In case, MNRE does not approve the 30% grant, complete cost of the system will be borne by Rajasthan Council of Secondary Education, Jaipur. Payment of bills will be released by RREC as per provisions of bid on behalf of RCSE, Jaipur.

**Note**: The bidder should furnish their proposal for complete work, as RREC intend to award the total work to one supplier only.

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SIGNATURE OF AUTHORISED
SIGNATORY WITH SEAL
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SECTION – 3

COMPETENCE AND EXPERIENCE

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


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:

The bidder should have minimum two years experience of successful installation of Grid connected /Off-grid PV Systems/Plants.

(a) The bidder should have installed at least one Off-grid/Grid connected Solar PV Power Plant of capacity 10 kW or more which should have been commissioned during 2014-15, 2015-16 and 2016-17 & up to date of submission of bid.

(b) The bidder should have cumulative experience of executing \( \geq 200 \text{ kWp} \) Off-grid/Grid connected SPV Power Plants/Systems in India during 2014-15, 2015-16 and 2016-17 & up to date of submission of bid.

(c) The details of projects executed during period mentioned above should be listed in Annexure-3(A) and Annexure-3(B).

A certificate issued by the SNA/Govt. Organisation/SECI/Project owner towards the satisfactory installation and functioning of the power plants to be furnished by the bidder.

SIGNATURE OF AUTHORISED SIGNATORY WITH SEAL
SECTION – 4

FINANCIAL CAPABILITY

Following are required for considering responsiveness regarding financial capability of the bidders:

The bidder has financial capability to take up the proposed work to be supported by balance sheet for last three years { 2014-15, 2015-16 & 2016-17 } and there should be minimum average turnover of 1.5 Crore per year in last three years. It is further clarified that the total turnover of last three years 2014-15, 2015-16 & 2016-17} should be 4.50 Crores or more.

SIGNATURE OF AUTHORISED SIGNATORY WITH SEAL
SECTION – 5

PRICE SCHEDULE

Proposers shall quote their lowest rates / costs for supply, installation, commissioning and five year comprehensive maintenance including all taxes etc. in Annexure-4.

Supplier has to execute a Comprehensive maintenance Contract for a period of five years with the beneficiary school and Rajasthan Council of Secondary Education, Jaipur during which maintenance shall be provided including replacement of the parts/system.

SIGNATURE OF AUTHORISED SIGNATORY WITH SEAL
SECTION – 6
PRE-REQUISITES AND PROPOSAL EVALUATION

1. Pre-requisites:

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

| (i) |
The Bidder should be either a body incorporated in India under the Companies Act, 1956 or Company Act 2013 including any amendment thereto 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


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) The bidder has financial capability to take up the proposed work to be supported by balance sheet for last three years {2013-14, 2014-15 & 2015-16} and there should be minimum average turnover of 1.50 Crore per year in last three years. It is further clarified that the total turnover of last three years {2014-15, 2015-16 & 2016-17} should be 4.50 Crores or more.

(iii) The bidder should have minimum two years experience of successful installation of Grid connected /Off-grid PV Systems/Plants.

(a) The bidder should have installed at least one Off-grid/Grid connected Solar PV Power Plant of capacity 10 kW or more which should have been commissioned during 2014-15, 2015-16 and 2016-17 & up to date of submission of bid.

+ (b) The bidder should have cumulative experience of executing > = 200 kWp Off-grid/Grid connected SPV Power Plants/Systems in India during 2014-15, 2015-16 and 2016-17 & up to date of submission of bid.

+ (c) The details of projects executed during period mentioned above should be listed in Annexure-3(A) and Annexure-3(B). A certificate issued by the SNA/ Govt. Organisation/SECI/Project owner towards the satisfactory installation and functioning of the power plants to be furnished by the bidder.

(iv) Details of ‘After Sales Service Centre’ existing in Rajasthan and proposed to be set up in Karauli, Jaisalmer, Pali, Nagaur & Alwar districts of Rajasthan. Refer Annexure 3 (C) & 3 (D).

(v) GST registration certificate.

Note:

(i) The tenderer must fill up above information clearly in enclosed sheet and attach all required scanned documents in support as at a glance Techno - Commercial qualification details online only.
(ii) If supporting documents (Self attested) are not attached for each eligible criteria above, the bid shall be rejected without further reference.

3. **Evaluation**:

(a) First of all the tender cost, Earnest Money and e-tender processing fees of RISL, in Envelope-1 (in Physical FORM) will be checked and if found as per requirement of tender, RREC will open cover-1 (online on e-proc site) of the bidder.

(b) Then the cover-1 containing scanned copies of Tender Cost, RISL e-proc charges and EMD shall be opened and checked for confirming the eligibility for opening cover-2 (i.e. Technical bid).

(c) Then cover-2 (i.e. Technical bid) shall be opened of those bidders who furnished EMD, Tender Cost, RISL e-proc Charges as furnished in physical form in the RREC office as per time schedule. 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.

(d) The basis of evaluations shall be the cost/rate quoted in the Price Schedule Annexure-4. To further clarify, cost of supply, installation & commissioning along with Five years free maintenance and all applicable taxes shall be summed up for comparison and evaluation. Bidders are required to quote rate/cost on firm basis and no price variation on any account shall be considered.

SIGNATURE OF AUTHORISED SIGNATORY WITH SEAL
## PRE- REQUISITES AND PROPOSAL EVALUATION INFORMATION

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<tr>
<td>(i)</td>
<td>The Bidder should be either a body incorporated in India under the Companies Act, 1956 or Company Act 2013 including any amendment thereto 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 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.</td>
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<tr>
<td>(iii)</td>
<td>The bidder should have minimum two years experience of successful installation of Grid connected/Off-grid PV Systems/Plants. (a) The bidder should have installed at least one Off-grid/Grid connected Solar PV Power Plant of capacity <strong>10 kW or more</strong> which should have been commissioned during 2014-15, 2015-16 and 2016-17 &amp; up to date of submission of bid. + (b) The bidder should have cumulative experience of executing &gt; = 200 kWp Off-grid/Grid connected SPV Power Plants/Systems in India during 2014-15, 2015-16 and 2016-17 &amp; up to date of submission of bid. + (c) The details of projects executed during period mentioned above should be listed in Annexure-3(A) and Annexure-3(B). A certificate issued by the SNA/ Govt. Organisation/SECI/Project owner towards the satisfactory installation and functioning of the power plants to be furnished by the bidder.</td>
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<td>(iv)</td>
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<tr>
<td>(v)</td>
<td>GST registration certificate.</td>
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**Note:** If any document submitted in support of above parameters found false, the tender will be disqualified and EMD and security Deposit shall be forfeited and tenderer shall be blacklisted.

**SIGNATURE OF AUTHORISED SIGNATORY WITH SEAL**
SECTION – 7

COMPLETION PERIOD

The Work of 8kW SPV Off-grid SPV systems with Battery Bank installation under this project shall be carried out and should be completed in FOUR MONTHS from date of award of work.

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

SIGNATURE OF AUTHORISED SIGNATORY WITH SEAL
SECTION – 8

INSTRUCTIONS TO TENDERERS

8.1 Tenderers are required to furnish all information and documents as called for in this Document in English Language. Any printed literature furnished by the proposer may be in another language, provided that this literature is accompanied by an English translation, in which case, for the purpose of interpretation of the document, the English version will govern.

8.2 The proposal shall be submitted by a single applicant.

8.3 The Proposal received after the closing date and time shall not be considered.

8.4 The documents shall be properly checked and signed before uploading for submission of proposals.

8.5 Intending tenderers are required to carefully go through the instructions included in the document and furnish complete information, necessary documents and schedules.

8.6 Any applicant wishing to undertake visit to site to become familiar with site conditions may do so. For any guidance in this respect, applicant may contact Director (Technical), Rajasthan Renewable Energy Corporation.

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 give any reason for either qualifying or disqualifying any applicant. RREC is also not under any obligation to proceed with the project 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 proposer may modify tender by issuing an amendment. Such amendment(s) shall be part of tender and should be uploaded 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/bidders(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 Any deviation from any clause of this document must be properly spelt out in a deviation statement to be submitted alongwith the proposal, giving details of page number and clause number and detailing the deviation. RREC reserves the right to accept or reject any deviation or modify the relevant clause of the document to the extent required by the deviation. Deviation statements in the prescribed performa (Annexure-5) must be attached with the proposal.
8.13 RREC will review the proposals to determine whether the proposals are substantially responsive to the requirement of 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) Proposal is not a firm proposal.

(iv) Proposal is not valid for at least six (6) months.

(v) Desired certificates in the tender not attached by the proposer.

(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 establish after-sales service network Karauli, Jaisalmer, Pali, Nagaur & Alwar districts of Rajasthan for maintenance of systems. This may consist of service centre at a convenient place to be reached by a beneficiary. It shall have spares for the system and repair facility. The concerned PO, RREC and representative of M/s. Cairns Foundation shall verify this fact and then only the supplier shall be allowed to install the systems.

8.19 Supplier shall provide a guarantee card and a operation and maintenance manual in Devnagri script to each beneficiary school. Beneficiaries shall also be educated through brochures about do’s & don’t on the system. The details of after sales service centers along with telephone numbers & contact persons of firm & details of RREC offices and office of Rajasthan Council of Secondary Education, Jaipur, address, telephone numbers provided to each beneficiary school.

8.20 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 (degradation of SPV Module shall not be more than 5% after 5 years and 10% after 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 for 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 summery must be enclosed along with covering letter on letter Head of firm in following format :-
<table>
<thead>
<tr>
<th>S.No.</th>
<th>Particulars/brief of information/schedule/Annexure</th>
<th>Page No:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
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<td>2.</td>
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<td>Total Page</td>
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</tr>
</tbody>
</table>

Successful Tenderer will be required to enter into an agreement in the prescribed format *(Annexure-6)* within 10 days of issuing **letter of award**. In the event of failure of tenderer to provide such an undertaking within this period from the date of issue of the LOS, the full earnest money deposited shall stand forfeited.

SIGNATURE OF AUTHORISED SIGNATORY WITH SEAL
SECTION – 9

TERMS & CONDITIONS

THE WORK OF SUPPLY & INSTALLATION COMMISSIONING & COMPREHENSIVE MAINTENANCE FOR FIVE YEARS OF OFF-GRID SPV SYSTEMS.

9.1 Intending tenderer shall have to deposit earnest money of amount Rs. 1.75 Lakh{Rs. One Lakh & Seventy Five Thousand only} in the form of Demand Draft / Bankers cheque without which tender will not be considered. The amount should be deposited in favour of Managing Director, RREC payable at Jaipur.

9.2 (i) The Earnest Money will be refunded to the unsuccessful proposers within one month after finalisation of the proposals, whereas in case of successful proposer it may be treated as a part of security deposit.

(ii) The earnest money of successful tenderer will be adjusted towards 5% security deposit against order value and balance amount towards security shall be got deposited (by Demand Draft only) at the time of execution of agreement.

The amount of SD shall be 5% of the amount of order value which is to be deposited with in 10 days of placing of the work order.

This amount of SD will be refunded/released back after three months from date of successful completion of work and submission of all documents to RREC Head office.

9.3 Without earnest money deposit as per clause No. 9.1, no proposal will be considered.

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 the RREC.

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

9.7 (A) The payment of system under this project will be released as under:

The selected supplier will raise the invoice of systems installed to RREC. RREC will release the payment as under:

(a) 90% of invoice raised/project cost to the RCSE on submission of duly verified documents from RREC concerned Project Manager/Project Officer and Principal/Head Master of the School to RREC Head office:

(i) Installation certificate (As per Annexure-9) with name of school & full address with Date of commissioning, Make & Serial Nos. of PV modules, Batteries and Balance of systems.

(ii) Two Photographs of system installed with school teacher, wherein date of commissioning is indicated.

(iii) Copy of Agreement with beneficiary school and RREC for maintenance (Annexure-8).
(b) Remaining 10% amount shall be released by RREC equally as under:
   (i) 3% after completion of 3rd year after receipt of satisfactory maintenance service report from beneficiary school and Rajasthan Council of Secondary Education, Jaipur.
   (ii) 3% after completion of 4th year after receipt of satisfactory maintenance service report from beneficiary school and Rajasthan Council of Secondary Education, Jaipur and Rajasthan Council of Secondary Education, Jaipur.
   (iii) 4% after completion of 5th year after receipt of satisfactory maintenance service report from beneficiary school and Rajasthan Council of Secondary Education, Jaipur.
   (iv) RREC may release complete remaining 10% of project cost kept against 5 years AMC on submission of Bank Guarantee (issued from Nationalised Bank only) of value 1.5 times of 10% hold amount valid for 5 years 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 ensure quarterly routine maintenance of system.
   (ii) The supplier shall timely attend to faults as and when arrive/reported. The faults should be attended within 72 Hours 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 72 Hrs from lodging of complaint and not rectified in maximum 7 days period three times/per site in a year, RREC will deduct Rs. 200/- 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 forfeit the entire balance amount withheld as CMC security and action will be taken for debarring and blacklisting of the firm.
     (c) One booklet shall have to be provided to every school (with details of installed systems with dates etc. with routine Do’s and Don’ts instructions to beneficiary) with additional pages to record AMC record. Every AMC service provided by supplier shall be recorded in this booklet. This will be verified by PO, RREC, School Head Master & representative of Rajasthan Council of Secondary Education, Jaipur periodically.
     (d) If, supplier furnish the BG against CMC [as per clause 9.7 (A)(b)(iv)], any penalty worked out as per above lapses during CMC period, the same shall have to be deposited by the supplier through DD/RTGS to RREC within one month period from date of issuance of letter from RREC.

(C) An agreement in the format at Annexure-6 shall be entered into within 10 days of placing of the work order without which no payments shall be released.

(D) **Invoicing Pattern**:
The supplier will invoice for system to Rajasthan Council of Secondary Education, Jaipur with mentioning address of school where actually installed.

9.8 RREC may not authorise any tenderer for the Off-grid SPV Systems for which proposals have been invited or may authorise for less than the quantity communicated in the tender document or may not authorise for any quantity, the manufacturer(s) shall not be entitled to claim any compensation.

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 of the contract at any time on the part of the manufacturer the contract may be terminated summarily by Managing Director, RREC, Jaipur without compensation to the contractor.

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 amended time to time should be furnished.

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 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.

9.15 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 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 for systems which the manufacturer has failed to supply for period of delay as stated below:-

(a) Delay upto 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%

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 in 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.

(v) Delivery period may be extended with or without liquidated damages if the delay in installation of systems is on account of hindrances beyond the control of the tenderer.

9.16 (a) No price escalation on account of any statutory increase in or fresh imposition of GST and others in respect of the systems authorised to be installed, shall be applicable.

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

9.17 When a tenderer is unable to complete the work within the specified or extended period, the RREC shall be entitled to award the work to other tenderer/agency without notice to the tenderer but on his (i.e. tenderer) account and risk, the system or any part of work 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 and
reasons of such failure on the part of the tenderer. 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.

9.18 While making the risk purchases, 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 completion of project. It will be treated as breach of contract and the department 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 as far as possible. In case tenders are called for ‘ISI’ marked stores, the material ‘ISI’ marked only shall be accepted.

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 Tenderer will have to submit invariably GST number issued from the sales tax / commercial tax officer concerned along with the proposal without which proposals may not be considered.

9.22 The Tenderer shall sign on each page of all supporting documents before uploading at the end in token of acceptance of all the terms and it would be uploaded with the proposal along with the declaration.

9.23 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 power to cancel the authorisation pertaining to the supply and installation of systems.

9.24 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.

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

9.26 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 MD, RREC, Jaipur whose decision shall be final and binding.

9.27 If any question is raised or issue arises between the user (beneficiary) of the SPV Off-grid SPV Systems and the manufacturer/supplier and matter is taken to a consumer court, RREC shall not be responsible in any manner and shall not be made a party in it.
9.28 RREC may conduct Pre-despatch inspection. The successful bidder will offer the material for inspection along with routine test certificates. Detailed instructions for inspection of material Pre-despatch & at site shall be made available to the successful bidder.

OR
Alternatively RREC, at its discretion, may collect up to 2% samples on random basis out of installed systems at site and get these tested at a MNRE recognised test house at supplier’s cost, which includes transportation and inspection charges.

9.29 After qualifying and deciding L-1 offer, if the qualified firm did not take up the work as per work order issued to the firm. RREC will forfeit the deposited amount of the supplier with RREC and take action for debarring and blacklisting of the firm.

9.30 If the 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. The 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. Similarly, if a parallel rate contract holding firm reduces its during currency of the rate contract, its reduced price shall be conveyed to other parallel rate contract holding firms and original rate contract holding firm for corresponding reduction in their prices. If any rate contract holding firm does not agree to the reduced price, further transaction with it, shall not be conducted.

9.31 Other:
IF : (A)

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

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

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

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

In addition to the recourse available in the bidding documents or the contract, be punished with fine which may extend to fifty lakhs rupees or ten percent of assessed value of total procurement, whichever is less.
IF : (B) 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 total awarded quantity under contract and RREC will take action for debarring and blacklisting of firm. Further be punished with the fine which may be extend to fifty lakhs rupees and TEN PERCENT of assessed value of total procurement whichever is less 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 with in one month, the recovery shall be made as per rules of GF&AR or any other law for the same.

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 RREC will finalise L-1 offer from price offers received from qualified bidders and RREC intend to award the work of 12 Nos. schools to one supplier only (i.e. to L-1 offer submitted by the bidder) after negotiations (if needed).

SIGNATURE OF AUTHORISED SIGNATORY WITH SEAL
SECTION – 11

WORKS CONTRACT

It is hereby clarified that RREC’s role is limited to making payment of RCSE share & subsidy as received from MNRE towards cost of system & its installation as per the terms and conditions of work order. Accordingly, it is of the view that this shall not attract provisions of works contract tax. However, if the revenue authorities are of the opinion that works contract tax is applicable to the above payments by RREC and insist to deduct the same from tenderer's payment, RREC would deduct the same from suppliers due subsidy / other payments.

SIGNATURE OF AUTHORISED SIGNATORY WITH SEAL
## SECTION – 12
### ANNEXURES

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<th>Annexure No:</th>
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<td>13.</td>
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<td>Declaration of material proposed for supply under this programme by the Tenderer:</td>
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<td>14.</td>
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<td>List of Schools for installation of SPV Power Plants.</td>
<td>53</td>
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<td>15.</td>
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<td>Load details and estimated operation Hours.</td>
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MINIMAL TECHNICAL REQUIREMENTS / STANDARDS
FOR SPV SYSTEMS / PLANTS TO BE DEPLOYED DURING F.Y. 2012-2013
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
- Mono/Poly Crystalline PV Modules only: IEC 61646 / Equivalent IS (Under Dev.)
- Concentrator PV Modules & Assemblies: IEC 62108

1.2 In addition, the modules must conform to IEC61730 Part-1 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, Im, Vm 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.

Until March 2013, the RFID can be inside or outside the module laminate, but must be able to withstand harsh environmental conditions. However from 1st April 2013 onwards; RFID shall be mandatorily placed inside the module laminate.

1.5 VALIDITY:

The validity of the existing Certificates/Reports in the old format/procedure shall be valid till March 2013 only. Manufactures are advised to get their samples tested as per the new format/procedure before 31st March 2013, whose validity shall be for five years.
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. For small capacity PV modules upto 50 Wp 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 I.

(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 under the Mission must conform to the latest edition of IEC/ E equivalent BIS Standards/ MNRE specifications / as specified below:

<table>
<thead>
<tr>
<th>BOS Item / System</th>
<th>Applicable BIS /Equivalent IEC Standard Or MNRE Specifications</th>
</tr>
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<tbody>
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<td>Standard Description</td>
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<tr>
<td>Solar PV Lighting Systems:</td>
<td>Solar PV Home Lighting System</td>
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<td></td>
<td>Solar PV street Lighting System</td>
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<td></td>
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<tr>
<td>Charge Controller/MPPT units</td>
<td>Environmental Testing</td>
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<tr>
<td>Power Conditioners/ Inverters**including MPPT and Protections</td>
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<td><strong>Storage Batteries</strong></td>
<td><strong>General Requirements &amp; Methods of Testing Tubular Lead Acid / VRLA / GEL Capacity Test Charge/Discharge Efficiency Self-Discharge</strong></td>
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<tr>
<td><strong>Cables</strong></td>
<td>General Test and Measuring Method PVC insulated cables for working voltage up to and including 1100 V and UV resistant for outdoor installation</td>
</tr>
<tr>
<td><strong>Junction Boxes /Enclosures for Inverters/Charge Controllers/Luminaries</strong></td>
<td>General Requirements IP 54(for outdoor)/ IP 21 (for indoor) as per IEC 529</td>
</tr>
</tbody>
</table>

**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. The List of MNRE approved test centers will be reviewed and updated from time to time.

2.3 WARRANTY

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

2.4 Structure : The module mounting structure should be made of pre galvanised/ hot dipped galvanised angels/C-channels /other equivalent members of design for suitable strength to withstand 150 km/Hr wind speed.
**Accredited Test centres for MNRE Off-Grid Programme**

<table>
<thead>
<tr>
<th>Lab/Organization</th>
<th>PV Module</th>
<th>Lighting Systems</th>
<th>Environment</th>
<th>Battery</th>
<th>Inverter&gt;100 W</th>
<th>Charge Controller</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>as per MNRE Specifications</td>
<td></td>
<td>Efficiency</td>
<td>Environmental</td>
</tr>
<tr>
<td>SEC</td>
<td>Yes (IEC61215 up to 100W) NABL Accredited</td>
<td>Yes NABL/MNRE Accredited</td>
<td>Yes (Including IP) MNRE Accredited</td>
<td>Yes (up to 10KVA) MNRE Accredited</td>
<td>Yes NABL/MNRE Accredited</td>
<td>Yes NABL/MNRE Accredited</td>
</tr>
<tr>
<td>ERTL (east)</td>
<td>STC Test Facility MNRE Accredited</td>
<td>Yes NABL/MNRE Accredited</td>
<td>Yes NABL/MNRE Accredited</td>
<td>Yes (up to 100AH)</td>
<td>Yes NABL/MNRE Accredited</td>
<td>Yes NABL/MNRE Accredited</td>
</tr>
<tr>
<td>ETDC (B)</td>
<td>Yes (IEC61215) under ICEEE-OB, IEC 61701 (up to 100W) NABL Accredited</td>
<td>Yes NABL/MNRE Accredited</td>
<td>Yes NABL/MNRE Accredited</td>
<td>Yes (up to 100AH)</td>
<td>Yes NABL/MNRE Accredited</td>
<td>Yes NABL/MNRE Accredited</td>
</tr>
<tr>
<td>CPRI (B)</td>
<td>No</td>
<td>Yes NABL/MNRE Accredited</td>
<td>Yes NABL/MNRE Accredited</td>
<td>Yes (up to 500AH)</td>
<td>Yes NABL/MNRE Accredited</td>
<td>Yes NABL/MNRE Accredited</td>
</tr>
<tr>
<td>ERTL (N)</td>
<td>No</td>
<td>Only Electronics &amp; luminaries NABL Accredited</td>
<td>Yes NABL Accredited</td>
<td>No</td>
<td>Yes (up to 5KW) NABL Accredited</td>
<td>Yes NABL Accredited</td>
</tr>
<tr>
<td>UL (B)</td>
<td>Yes (IEC61215 IEC 61730 Pt.II and IEC 61701 up to 400W)</td>
<td>Yes NABL Accredited</td>
<td>Yes NABL Accredited</td>
<td>No</td>
<td>Yes (up to 6KW) NABL Accredited</td>
<td>Yes NABL Accredited</td>
</tr>
<tr>
<td>TUV Rhineland</td>
<td>Yes (IEC61215 &amp; 61730 Pt-II) up to 400W NABL Accredited</td>
<td>No</td>
<td>Yes NABL Accredited</td>
<td>No</td>
<td>Yes (up to 10KW) NABL Accredited</td>
<td>Yes NABL Accredited</td>
</tr>
<tr>
<td>Inter Tek</td>
<td>No</td>
<td>Only Electronics &amp; luminaires NABL Accredited</td>
<td>Yes NABL Accredited</td>
<td>No</td>
<td>Yes (up to 5KW) NABL Accredited</td>
<td>Yes NABL Accredited</td>
</tr>
</tbody>
</table>

*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 strictly followed.
## Specifications/Bill of material of 8 kW off-grid SPV Power Plant with Hybrid PCU and Battery Bank:

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Item:</th>
<th>Capacity</th>
<th>Quantity</th>
<th>Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Solar PV Array</td>
<td>8000 Watt</td>
<td>Minimum 250 Wp each for total PV array capacity of 8000 Wp</td>
<td>Crystalline- Mono/Poly, Qualifying MNRE Standards..</td>
</tr>
<tr>
<td>2.</td>
<td>Battery Bank with Battery Rack.</td>
<td>Total capacity of Battery Bank @ 1.2 VAh/watt for 8 kW SPV Power Plant</td>
<td>As per design of system.</td>
<td>Supplier can opt Tubular Lead Acid Battery/2V cells as per their system design conforming to MNRE qualifying Standards.</td>
</tr>
<tr>
<td>3.</td>
<td>Hybrid PCU with Charge Controller</td>
<td>8-10 kW PCU with inbuilt MPPT Solar Charge Controller with Priority: Solar---Battery---Grid.</td>
<td>ONE</td>
<td>Qualifying MNRE standards.</td>
</tr>
<tr>
<td>4.</td>
<td>Cable &amp; Connectors</td>
<td>As per design of system.</td>
<td>As per site requirement.</td>
<td>IS/IEC approved.</td>
</tr>
<tr>
<td>5.</td>
<td>Battery Cable</td>
<td>As per design of system.</td>
<td>As per requirement</td>
<td>IS/IEC approved.</td>
</tr>
<tr>
<td>6.</td>
<td>Earthing</td>
<td>Maintenance free</td>
<td>As per requirement</td>
<td>As per standards.</td>
</tr>
<tr>
<td>7.</td>
<td>Module Mounting Structure</td>
<td>Made of Angels/C-channel/other equivalent members of strength to bear wind speed of 150 Km/Hr.</td>
<td>As per requirement</td>
<td>Pre Galvanised/Hot Dipped Galvanized</td>
</tr>
<tr>
<td>8.</td>
<td>All nut &amp; bolt</td>
<td>As per requirement</td>
<td>As per requirement.</td>
<td>Shall be of high quality stainless steel</td>
</tr>
<tr>
<td>9.</td>
<td>Lightening Arrestor</td>
<td>As per requirement</td>
<td>As per requirement.</td>
<td>IS/IEC approved.</td>
</tr>
<tr>
<td>10.</td>
<td>ACDB &amp; DCDB</td>
<td>As per design.</td>
<td>As per design</td>
<td>As per standards.</td>
</tr>
<tr>
<td>11.</td>
<td>Balance of systems</td>
<td>As per requirement</td>
<td>As per requirement</td>
<td>Of certified quality standards.</td>
</tr>
</tbody>
</table>

**Note:**
1. All cable lengths are assumed and scope of supplier includes cables up to main distribution Board through PCU excluding internal school building wiring.
2. Internal fittings of school will be responsibility of School administration/ Rajasthan Council of Secondary Education, Jaipur.
3. **Features required for the PCU:**
   1. Maximum THD of the generated sine wave <3%.
   2. After the batteries charge up fully (say 95% of charge level), the inverter should induce self power cut and run the load on solar energy (supplemented by battery power) till the batteries discharge to say 70% of charge level. Thereafter, the load is shifted back automatically to the grid and full solar energy is utilised to recharge the batteries. This feature is essentially required with a view to fully utilise and harness maximum solar power. Normally, after the batteries have fully charged, the excess solar power available is wasted.
   3. The PCU should have adequate features for Remote Monitoring of system performance. The cost for this arrangement will be borne by the supplier.
## A. SCHEDULE OF EXPERIENCE (Supply & Installation)

(Please attach certificates in support from the concerned nodal agency /Govt. Organisation/ MNRE authorised Agency /Project owner for work executed)

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Details of SPV Systems (of capacity 10kW &amp; above) installed during [2014-15, 2015-16, 2016-17 and up to date of submission of bid.]</th>
<th>Year</th>
<th>Deptt./Agency /Beneficiary for which work carried out</th>
<th>Total kW size of work.</th>
<th>Cost of works in { Amt in Lakhs.}</th>
<th>Attachment at Page No. Of Techno-Commercial bid</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
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<td>6.</td>
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| .....
N |
| TOTAL : |                                                                                                                                                     |      |                                                     |                      |                                |                                                |

**SIGNATURE & SEAL OF PROPOSER**
Annexure-3(B)

B. SCHEDULE OF EXPERIENCE (Supply & Installation)

(Please attach certificates in support from the concerned nodal agency /Govt. Organisation/ MNRE authorised Agency /Project owner for work executed)

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Details of Total aggregate SPV Systems installed during [2014-15, 2015-16 and 2016-17 and up to date of submission of bid.]</th>
<th>Year</th>
<th>Deptt./Agency/Beneficiary for which work carried out</th>
<th>Total kW size of work.</th>
<th>Cost of works in lakhs of Rs.</th>
<th>Attachment at Page No. Of Techno-Commercial bid</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
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<td>2.</td>
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<td>4.</td>
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<td>TOTAL :</td>
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</tbody>
</table>

SIGNATURE & SEAL OF TENDERER
### C. SCHEDULE OF EXPERIENCE (Sale & Service Centres)

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

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Name of Dealer/centre</th>
<th>Village</th>
<th>Tehsil</th>
<th>District</th>
<th>Name of contact Person &amp; Phone Number</th>
</tr>
</thead>
</table>

### SIGNATURE & SEAL OF TENDERER

### D. SCHEDULE OF EXPERIENCE

(Details of after sale service centres proposed in Rajasthan)

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Name of Dealer/centre</th>
<th>Village</th>
<th>Tehsil</th>
<th>District</th>
</tr>
</thead>
</table>

Note: Final details can be given later on.

### SIGNATURE & SEAL OF Tenderer
**PRICE SCHEDULE**

Tenderer shall quote rates / costs in the format given below for supply, installation, commissioning & maintenance of 8 kW off-grid SPV system with Battery Bank as per specifications (enclosed) 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 comprehensive maintenance**.

<table>
<thead>
<tr>
<th>S. No.</th>
<th>SPV System</th>
<th>Price offered for Supply of system FOR site unit rate inclusive of F&amp;I and all taxes and duties excluding service tax (Rs./per system)</th>
<th>Price offered for Installation &amp; Commissioning of the system (Rs./per system)</th>
<th>Price offered for <em>five years</em> comprehensive maintenance of system (Rs./per System)</th>
<th>Service Tax on D&amp;E</th>
<th>Total Price per system with all taxes including services tax ((G=C+D+E+F)) (Rs./per system)</th>
<th>Total Qty. Offered (Nos.)</th>
<th>Total cost of offered Qty. Inclusive of Supply, F&amp;I, installation and all taxes and duties with Comprehensive maintenance charges &amp; service tax etc. (Rs.) ((I=GxH))</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Off-grid SPV System of 8000 Wp PV capacity with Hybrid PCU and Battery Bank [As per Annexure1&amp;2]</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>12 Nos.</td>
<td></td>
</tr>
</tbody>
</table>

**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) The Comprehensive maintenance of the systems installed shall be for a period of five years. During FIVE years period the supplier should provide maintenance services including replacement of parts/ components if needed, free of cost.

**Signature of the Tenderer/ authorised Signatory.**
DEVIATION STATEMENT

Details of Deviations from the Tender are as under:-

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Page No. of Documents</th>
<th>Clause No.</th>
<th>Details of deviations</th>
</tr>
</thead>
</table>

Note: RREC is at liberty to accept or not to accept any deviation. No tender will be accepted with deviation without prior approval from competent authority of RREC.

SIGNATURE OF AUTHORISED SIGNATORY WITH SEAL
TRIPARTITE AGREEMENT

(On non-judicial stamp paper of GOR of value of Rs. 5000/- as under : )

1. An agreement made this ……………… day of ……………2018, among the followings :
   (I) RAJASTHAN RENEWABLE ENERGY CORPORATION (RREC), E-166, Yudhishtir Marg, C- 
   Scheme, Jaipur (hereinafter“ shall be called as Nodal Agency to implement the programme)
   (II) Rajasthan Council of Secondary Education, Jaipur and
   (III) M/s………………… (Name of Empanelled firm say called the “approved supplier)in reference to
   project of electrification of 12 Nos. schools of Karauli, Jaisalmer, Pali, Pratapgarh &Barmer
   districts of Rajasthanthrough 8 kW SPV Off-grid Power Plant and admits as under :

M/s…………………………. (Name of approved supplier) has agreed with Rajasthan Council of 
Secondary Education, Jaipur and RREC to take up the work under Work order of RREC No:
…………Dated……………..for work of supply, installation, testing, commissioning and maintenance of the 1 kW SPV 
Off-Grid Power Plants/systems under the project at the schools of Karauli, Jaisalmer, Pali, Pratapgarh &
Barmer districts of Rajasthan ( As per list provided). All those articles set forth as per tender document & 
work order issued by RREC at the rates set forth.

AND

Rajasthan Council of Secondary Education, Jaipur (As first funding agency ) shall pay 70% of the 
project cost or 70% of the project cost and balance required after deducting MNRE Admissible CFA for the 
project, ( whichever is more ) in case MNRE sanctions and release the CFA otherwise Rajasthan Council of 
Secondary Education, Jaipur will provide 100% project cost including NIT publication charges 
etc to RREC for work of supply, installation, commissioning of 8 kW & 15 kW SPV Off-grid Power Plants at 
schools in Karauli, Jaisalmer, Pali, Pratapgarh &Barmer districts of Rajasthanas per list provided in 
tender document.

AND

RAJASTHAN RENEWABLE ENERGY CORPORATION shall arrange 30% of project cost/CFA sanctioned by 
MNRE GoI.

2. And whereas the approved supplier has deposited as Security Deposit a sum of Rs. ………….. as Cash/Bank 
   Draft/Banker Cheque/Bank Guarantee No. ……………………… Dated ……………….With adjustment of Rs. 
   ………………………………. deposited vide DD/BC/BGNo. ………….Dated ………………………… as EMD.

3. The payment to the supplier be made by the RREC through RTGS/NEFT.

4. All other Terms and conditions of the tender of the tender notice No. …………………………….dated 
   ………….. andWork order No: ………..Dated:……….. 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.

5. We are abide by all terms and conditions as per bid documents and Work order and this agreement.

6.All disputes arising out of this agreement and all questions relating to the interpretation of this agreement shall 
be decided by the MD, RREC and the decision of the MD, RREC shall be final.

In witness where of the parties here to set their hands on the day of ……….. 2016.

Signature for and as behalf of Signature of the authorities:

<table>
<thead>
<tr>
<th>Supplier</th>
<th>Rajasthan Council of Secondary Education, Jaipur</th>
<th>RREC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Witness:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Witness:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
UNDEARTAKING 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 Off-grid SPV systems in Rajasthan and on successful completion of the job (hereinafter referred as Off-grid SPV Programme) RREC having been agreed to disburse the financial assistance due under the programme supplier does hereby undertake to carryout the work as per terms and condition of the Tender document and authorisation letter issued to us by RREC.

We do hereby further undertake that in case we are unable to carry out duties as undertaken above. RREC would have the right to forfeit the entire /EMD/security amount deposited by us for Off-grid SPV Programme 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. .............
बी.बी.वी. उपकरण सन्याल व लाभान्वित विभागस्थ स्थापना व संस्थान के लिए किये जाने वाले अनुबंध पत्र

आज दिनांक: .................................. को मैं................................................(सन्याल) व श्री ....................................................पूर्व श्री..................................................

...................................(ब्राह्मणाध्यक्ष/अध्यक्ष) विभागस्थ ..................................................पता..................................................जिला..................................................

पर 8000वर्ष एस.पी.वी. उपकरण की स्थापना के संबंध में यह अनुबंध निम्न शर्तों के साथ किया जा रहा है:

यह उपकरण राजस्थान अध्य ऊर्जा निगम द्वारा एमएनआई , भारत सरकार द्वारा देय अनुदान एवं मैं राजस्थान काउन्सिल ऑफ़ सेंक्टर्स एजुकेशन, जयपुर के विभिन्न सहयोग के तहत लगाया जा रहा है/गया है।

सामान्य शर्तें व विभिन्न पदों के दायित्व—

(1) सन्याल के दायित्व—
1. प्रत्येक वनस्पति लाभात्मक विभागस्थ निधिया में उपलब्ध सूची में से ही होना चाहिए।
2. सन्यालद्वारा कार्यदिशा से संबंधित लेखन के अनुसार ही पूर्ण सिस्टम की स्थापना की जावा।
3. (i) राजस्थान अध्य ऊर्जा निगम की शासनसूची उपकरण स्थापना प्रकार लाभान्वित विभागस्थ को संख्याने (Handing Over) के दौरान उपकरण पूर्णतया कार्यनीति होगा और वो इसका टूटा-फूटा या बेकार नहीं होगा।
(ii) सन्याल , लाभान्वित विभागस्थ को देने वाली लिपि में सिस्टम की पूर्ण जानकारी एवं कैसे करें कैसे ना करें तथा सांचना गैरअनुचित चर्चा करवाएं।
4. इस उपकरण में योग सुबैहारिया/पिट्स होंगे जो कार्यदिशा से संबंधित लेखन में दिये गये है।
5. उपकरण लगाने से पूर्व वर्ष के भीतर ही सिस्टम खराब होने पर सन्याल द्वारा उपकरण को ठीक कर क्रियाशील करना होगा। इससे विरोध यदि नया उपकरण लगाना पड़े तो भी सन्याल को लगाकर उपकरण क्रिया शील करना होगा, जिसमें बैठे भी सम्मिलित हों।
6. सन्याल के कम्युनारी बैठे को नियमित रूप से जांच की एवं यहां लाभान्वित विभागस्थ के अध्यायों के अनुसारके कमांडरीयों को बैठे के रखरखाव के लिए किया जाएगा।
7. सन्याल अपने कमांडरीयों /एजेंट को इस कार्य के लिए तहतहील मुख्यालय ( or at proper place ) पर संयुक्त रखेंगे जिससे लाभान्वित विभागस्थ इनसे सिखे सामक्ष रख सके।
8. सन्याल अपने कमांडरीयों /एजेंट को पहचान पत्र देकर रखेंगे जिसको दिखाने पर ही लाभान्वित विभागस्थ उनको प्रेमश करने देगा।
9. सन्याल लाभान्वित विभागस्थ को देने वाली लिपि में एक बुकलेट उपलब्ध करवायेगा जिसमें सिक्यूटर किये गये सिस्टम की पूर्ण जानकारी या मसाइयो नं., बैठे नं., पै की या तो एवं शेष सामग्री का वर्गण अक्षरित किया जाएगा। इस बुकलेट में घटना पर्याय रख-रखाव सेवा का इंड्रा किये जाने के लिए अतिरिक्त युक्त उपलब्ध होंगे। प्रत्येक रख-रखाव सेवा का इंड्रा इस बुकलेट में समय-समय पर किया जाएगा।
10. इस संबंध में राजस्थान अध्य ऊर्जा निगम के प्रबन्ध निदेशक का फैसला अनिश्चित व माना होगा।

(2) लाभान्वित विभागस्थ के दायित्व—

1. लाभान्वितविभागस्थ सिस्टम को उपकरण की क्षमतानुसार निर्देशित उपकरणों को चलाने के उपयोग में ही लेगा।
2. यदि लाभान्वित विभागस्थ उपकरण के साथ भिड़ियार्डियों के वर्तमान किसी प्रकार का अवयविष्ट छोटा-छोटा ठूंठ कैसे स्थानान्तरण , दूसरी बैठे चार्ज करना, बैठे को दूसरे काम में लेना शिष्ट होने पर, उपकरण की पूर्ण वर्ष की गारन्टी स्वतः ही समाप्त कर जाएगी।
3. लाभान्वितविभागस्थ सिस्टम खराब होने पर सन्याल के कमांडरों को सूचित करने न कि सवर्ण सिस्टम को ठीक करने का प्रयास करेंगे।
4. लाभान्वितविभागस्थ उपकरण को प्रतिदिन 5 घंटों से ज्यादा प्रयोग में नहीं लेगा।
5. सन्यालद्वारा रख-रखाव न करने पर राजस्थान काउन्सिल ऑफ़ सेंक्टर्स एजुकेशन, जयपुर एवं परियोजना अधिकारी, राजस्थान अध्य ऊर्जा निगम को तत्काल सूचित करेंगे।
6. लाभान्वित विभागस्थ लगाये गए उपकरण की सुरक्षा के लिए पूर्णतया जिम्मेदार होगा व चोरी होने पर पुलिस में तत्काल एग्जीविएयर दर्ज कराकेंस्तर्स, राजस्थान काउन्सिल ऑफ़ सेंक्टर्स एजुकेशन, जयपुर
परियोजना अधिकारी, राजस्थान अक्षय ऊर्जा निगम को तत्काल सूचित करें।

सप्ताह के अधिकृत प्रतिनिधि

<table>
<thead>
<tr>
<th>नाम</th>
<th>फोन</th>
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<tbody>
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<td></td>
</tr>
</tbody>
</table>

लाभार्थी विद्यालय के अध्यापक

<table>
<thead>
<tr>
<th>नाम श्री</th>
<th>पुत्र श्री</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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</table>

Mobile Number of School Teacher:

<table>
<thead>
<tr>
<th>ग्राम</th>
<th>ग्रामपंचायत</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>पंचायत सभा</td>
</tr>
<tr>
<td></td>
<td>जिला</td>
</tr>
</tbody>
</table>

Mobile Number of School Teacher:

उत्तरकरण स्थापना एवं अनुवर्त पत्र प्रमाणित

<table>
<thead>
<tr>
<th>ह0</th>
</tr>
</thead>
<tbody>
<tr>
<td>प्रतिनिधी, राजस्थान काउंसिल ऑफ सेकेंडरी एजुकेशन, जयपुर मुख्यालय</td>
</tr>
<tr>
<td>मय सील</td>
</tr>
</tbody>
</table>
उपकरण स्थापना प्रमाण-पत्र

राजस्थान अक्षय कुर्सी निगम के परियोजना अधिकारी की रिपोर्ट

मैं .............................................. परियोजना अधिकारी, राजस्थान अक्षय कुर्सी निगम ........................................... उपरोक्त वर्णित एस. पी.वी. उपकरण की स्थापना बाबत लाभार्थी के संयंत्र का व्यक्तिपति निरीक्षण उपरांत प्रमाणित करता हूँ कि :-

( i ) एस.पी.वी. उपकरण सही प्रकार के टेप्डर में वर्णित स्पेसिफिकेशन के निबिदा शर्तों के अनुसार लाभार्थी विद्यालय ................................................................. में स्थापित किया गया है।

(ii) लाभार्थी विद्यालयपर स्थापित उपकरण (.......वोट श्रमता) सही हालत में कार्यरत है।

(iii) उपरोक्त वर्णित उपकरण स्थापना पर कार्य के प्रमाणण अनुसार लागत राशि रू. ..........................अक्षर..........................

.................................................. की निबिदा शर्तों के अनुरुप भुगतान किये जाने की अनुशंसा करता हूँ।

हस्ताक्षर परियोजना अधिकारी
मय सील
FORMAT OF
INSTALLATION CERTIFICATE

<table>
<thead>
<tr>
<th>RST No:</th>
<th>M/s..................................</th>
<th>CST No:</th>
<th>Address:</th>
<th>TIN No:</th>
<th>Phone No:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

INSTALLATION CERTIFICATE

Date of Installation:

Claim Note No:
Name of School : ..................................
Address of School: ..................................
Gram Panchayat: ..................................
Panchayat Samiti : .................., District :

Certified that 8000/15000Watt PV Capacity SPV system in reference to RREC work order No:...................... Dated:.............. has been installed and commissioned at the place mentioned and handed over the system in good working condition to school Head Master/Principal. The details of material supplied and installed are as under:

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Item:</th>
<th>Quantity</th>
<th>Make</th>
<th>Serial Numbers.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>SPV Module of ..........Wp each:</td>
<td></td>
<td></td>
<td>List out all Numbers at Backside of this certificate.</td>
</tr>
<tr>
<td>2.</td>
<td>Battery ............Ah each</td>
<td></td>
<td></td>
<td>List out all Numbers at Backside of this certificate.</td>
</tr>
<tr>
<td>3.</td>
<td>Power Conditioning Unit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Module Mounting Structure</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>Cable</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>Earthing Kit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td>Lightening Arrestors :</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td>Other item....</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Signature of Beneficiary school Head Master:

Signature of representative of Firm/dealer who installed the system
(Name: ..................................)

Signature of Firm’s authorised Person With seal.

PM/PO, RREC verification
Compliance with the Code of integrity
and No Conflict of interest

Any person participating in a procurement process shall –

(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 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 anti-competitive 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.

Conflict of Interest:-

The Bidder participating in a bidding process must not have a Conflict of Interest.

A Conflict of Interest 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. i.e., 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. have controlling partners/ shareholders in common; or
b. receive or have received any direct or indirect subsidy from any of them; or
(c. have the same legal representative for purposes of the Bid; or
(d. 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 Bidder, or influence the decisions of the Procuring Entity regarding the bidding process; or
(e. the Bidder participates in more than one Bid in a bidding process. Participation by a Bidder in more than one Bid will result in the disqualification of all Bids in which the Bidder is involved. However, this does not limit the inclusion of the same subcontractor, not otherwise participating as a Bidder in more than one Bid; or
f. the Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the Goods, Works or Services that are the subject of the Bid; or

g. Bidder or any of its affiliates has been hired (or is proposed to be hired) by the procuring entity as engineer-in-charge consultant for the contract.

SIGNATURE OF AUTHORISED SIGNATORY WITH SEAL
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;

SIGNATURE OF AUTHORISED SIGNATORY WITH SEAL

Date:
Name:
Designation:
Address:
Annexure-11(C)

Grievance Redressal during Procurement Process

The designation and address of the First Appellate Authority is Director (Technical), RRECL Jaipur.

The designation and address of the Second Appellate Authority is Chairman & Managing Director RRECL Jaipur

(1) Filing an appeal

If any Bidder or prospective bidder is aggrieved that any decision, action or omission of the Procuring Entity is in contravention to the provisions of the Act or the Rules or the Guidelines issued thereunder, he may file an appeal to First Appellate Authority, as specified in the Bidding Document within a period of ten days from the date of such decision or action, omission, as the case may be, clearly giving the specific ground or grounds on which he feels aggrieved:

Provided that after the declaration of a Bidder as successful the appeal may be filed only by a Bidder who has participated in procurement proceedings:

Provided further that in case a Procuring Entity evaluates the Technical Bids before the opening of the Financial Bids, an appeal related to the matter of Financial Bids may be filed only by a Bidder whose Technical Bid is found to be acceptable.

(2) The officer to whom an appeal is filed under para (1) shall deal with the appeal as expeditiously as possible and shall endeavour to dispose it of within thirty days from the date of the appeal.

(3) If the officer designated under para (1) fails to dispose of the appeal filed within the period specified in para (2), or if the Bidder or prospective bidder or the Procuring Entity is aggrieved by the order passed by the First Appellate Authority, the Bidder or prospective bidder or the Procuring Entity, as the case may be, may file a second appeal to Second Appellate Authority specified in the Bidding Document in this behalf within fifteen days from the expiry of the period specified in para (2) or of the date of receipt of the order passed by the First Appellate Authority, as the case may be.

(4) Appeal not to lie in certain cases

No appeal shall lie against any decision of the Procuring Entity relating to the following matters, namely:-
(a) determination of need of procurement;
(b) provisions limiting participation of Bidders in the Bid process;
(c) the decision of whether or not to enter into negotiations;
(d) cancellation of a procurement process;
(e) applicability of the provisions of confidentiality.

(5) Form of Appeal

(a) An appeal under para (1) or (3) above shall be in the annexed Form alongwith as many copies as there are respondents in the appeal.
(b) Every appeal shall be accompanied by an order appealed against, if any, affidavit verifying the facts stated stated in the appeal and proof of payment of fee.
(c) 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.
(6) Fee for filing appeal

(a) Fee for first appeal shall be rupees two thousand five hundred and for second appeal shall be rupees ten thousand, which shall be non-refundable.

(b) The fee shall be paid in the form of bank demand draft or banker's cheque of a Scheduled Bank in India payable in the name of Appellate Authority concerned.

(7) Procedure for disposal of appeal

(a) 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.

(b) On the date fixed for hearing, the First Appellate Authority or Second Appellate Authority, as the case may be, shall,-

(i) hear all the parties to appeal present before him; and

(ii) peruse or inspect documents, relevant records or copies thereof relating to the matter.

(c) 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.

(d) The order passed under sub-clause (c) above shall also be placed on the State Public Procurement Portal.

SIGNATURE OF AUTHORISED SIGNATORY WITH SEAL
Annexure-11(D)

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.

SIGNATURE OF AUTHORISED SIGNATORY WITH SEAL
Annexure-12

Format of Payment Claim Note

Payment claim note No.                      Date:

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

Please arrange to issue cost of system to M/s -------------------------------- against supply, installation and commissioning of Off-grid SPV Systems in reference to RRECL, Jaipur work order/Target Allocation letter No. -------------------------------- dated--------------- in ------------------district by ------------------ (sub-dealer name or self). Details as detailed under:

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of Firm (if any, sub dealer)</th>
<th>Invoice No. &amp; Date</th>
<th>Name of School :</th>
<th>Off-grid SPV System detail :</th>
<th>Claim amount</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>

Total

Authorized Signature with seal

Certificate from Project Officer, RRECL

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

1. A contract (including maintenance agreement) as per the format at Annexure -8 of Tender Document has been executed with the beneficiary.
2. The material has been supplied and installed 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 has been provided to beneficiary schools.
5. System has been installed at beneficiary site and working satisfactory.
6. School wise details of installation is as per above statement.

Verified for payment Rs. ------------------(Rs.---------------------------------).

Signature of Project Officer,
RRECL, with seal
Declaration of material proposed for supply under this programme for supply, installation of 8kWp PV Off-grid System by the Tenderer:

<table>
<thead>
<tr>
<th>Item S.No.</th>
<th>Detail of material proposed for supply for different models:</th>
<th>Make</th>
<th>Tested from (Enclose the test certificate)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
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<tr>
<td>3.</td>
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<tr>
<td>4.</td>
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<td></td>
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<tr>
<td>5.</td>
<td></td>
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<tr>
<td>.......</td>
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<td></td>
</tr>
</tbody>
</table>

SIGNATURE OF AUTHORISED SIGNATORY WITH SEAL
## Annexure-14.

### List of Schools of Karauli, Jaisalmer, Pali, Pratapgarh & Barmer districts:

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Name of District</th>
<th>Name of Block</th>
<th>Name of School</th>
<th>PV Capacity of Solar Power Plant Proposed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Jaisalmer</td>
<td>Jaisalmer</td>
<td>Govt. Sr. Secondary School, Bahla</td>
<td>8 kW</td>
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<tr>
<td>2.</td>
<td>Karuli</td>
<td>Karauli</td>
<td>Govt. Sr. Secondary School, Lakhruki</td>
<td>8 kW</td>
</tr>
<tr>
<td>3.</td>
<td>Karuli</td>
<td>Sapotra</td>
<td>Govt. Sr. Secondary School, Dhandhuret</td>
<td>8 kW</td>
</tr>
<tr>
<td>4.</td>
<td>Karuli</td>
<td>Sapotra</td>
<td>Govt. Sr. Secondary School, Aamreki(Rahir)</td>
<td>8 kW</td>
</tr>
<tr>
<td>5.</td>
<td>Karuli</td>
<td>Sapotra</td>
<td>Govt. Sr. Secondary School, Rahir</td>
<td>8 kW</td>
</tr>
<tr>
<td>6.</td>
<td>Karuli</td>
<td>Sapotra</td>
<td>Govt. Sr. Secondary School, Chandreli ka pura</td>
<td>8 kW</td>
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<td>7.</td>
<td>Karuli</td>
<td>Sapotra</td>
<td>Govt. Sr. Secondary School, Kalyanpura</td>
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<td>8.</td>
<td>Karuli</td>
<td>Sapotra</td>
<td>Govt. Sr. Secondary School, Nibhera</td>
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<td>9.</td>
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<td>Sapotra</td>
<td>Govt. Adarsh Sr. Secondary School, Dolatpura</td>
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<tr>
<td>11.</td>
<td>Pratapgarh</td>
<td>Pratapgarh</td>
<td>Govt. HR Secondary School, PAAL</td>
<td>8 kW</td>
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<tr>
<td>12.</td>
<td>Barmer</td>
<td>Gadra Road</td>
<td>Govt. Sr. Secondary School, Lambara</td>
<td>8 kW</td>
</tr>
</tbody>
</table>
Details of Loads and their estimated Hours of operation:

FOR 8 kW off-grid SPV Power Plant school sites:

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Electrical Appliance :</th>
<th>Nos.</th>
<th>Load per unit in Watt</th>
<th>Hours per day :</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Fans</td>
<td>40</td>
<td>50</td>
<td>6 Hours</td>
</tr>
<tr>
<td>2.</td>
<td>Coolers</td>
<td>2</td>
<td>250</td>
<td>6 Hours</td>
</tr>
<tr>
<td>3.</td>
<td>Water cooler</td>
<td>1</td>
<td>100</td>
<td>6 Hours</td>
</tr>
<tr>
<td>3.</td>
<td>RO System</td>
<td>1</td>
<td>100</td>
<td>6 Hours</td>
</tr>
<tr>
<td>4.</td>
<td>Lights</td>
<td>40</td>
<td>40</td>
<td>4 Hours</td>
</tr>
<tr>
<td>5.</td>
<td>Computer</td>
<td>20</td>
<td>30</td>
<td>6 Hours</td>
</tr>
<tr>
<td>6.</td>
<td>CPU</td>
<td>2</td>
<td>70</td>
<td>6 Hours</td>
</tr>
<tr>
<td>7.</td>
<td>Printer</td>
<td>2</td>
<td>70</td>
<td>6 Hours</td>
</tr>
</tbody>
</table>