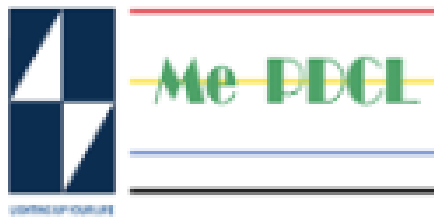


**Request for Selection (RfS) Document  
for Selection of Developers for Design, Supply, Testing,  
Installation & Commissioning of aggregated 50.0 MWp  
Off-Grid SPV Power Plants in different location in the state of Meghalaya  
under RESCO Model**



**MEGHALAYA POWER DISTRIBUTION CORPORATION LIMITED,**

'Lumjingshai', Short Round Road,  
Shillong, Meghalaya - 793001  
Email: [seprojects.mepdcl@gmail.com](mailto:seprojects.mepdcl@gmail.com)  
Website: [www.meecl.nic.in](http://www.meecl.nic.in)

**MEGHALAYA POWER DISTRIBUTION CORPORATION LIMITED**  
**OFFICE OF THE SUPERINTENDING ENGINEER (PROJECTS)**  
**SHORT ROUND ROAD, LUMJINGSHAI,**  
**SHILLONG-793001, MEGHALAYA**

CIN:U40101ML2009SGC008374 ; email:seprojects.mepdcl@gmail.com

**No. MePDCL/SE (Project)/Off Grid/T-203 (E)/2020-21/01** **Dated the 09<sup>th</sup> November, 2020.**  
**NOTICE INVITING TENDER**

The Submission of BIDs of **Tender No. MePDCL/SE (Project)/Off Grid/T-203 (E)/2020-21/01 Dated the 09<sup>th</sup> November, 2020** i.e., Tenders in e-tendering format are invited from experience and reputed bidders & developers for works under **MNRE Schemes** for the **Design, Supply, Installation, Testing, Commissioning, Operation & Maintenance in RESCO Model of aggregated 50.0 MWp Off-Grid SPV Power Plants in different locations** in the state of Meghalaya.

The submission of bids has been fixed till the **30<sup>th</sup> November, 2020** up to **11: 00 noon IST**, the same shall be opened on the same day at **14:00 Noon IST**, in MeECL Conference Room, Lumjingshai, Shillong.

Interested bidders may download the detailed Bidding Documents, Technical Specification, etc. from the website of the Corporation at **meecl.nic.in** as well as from the website **http://www.meghalayatenders.gov.in** from **10th November, 2020** onwards; other details of the NIT are available at above mention website.

**Superintending Engineer (Project)**  
**MePDCL, Shillong.**

**Memo No. MePDCL/SE (Project)/Off Grid/T-203 (E)/2020-21/01(a) Dated the 09<sup>th</sup> November, 2020.**

Copy to:

1. P.S. to the Chairman-cum-Managing Director, MeECL, Shillong for kind information of the CMD.
2. The Directors (Finance) / (Distribution) / (Generation) / (Transmission), MeECL / MePDCL / MePGCL / MePTCL, Shillong.
3. The Chief Engineers (Project) / (Generation) / (Transmission) / (PMC), MePDCL / MePGCL / MePTCL, Shillong.
4. The Additional Chief Engineers (Eastern Zone/Western Zone/Central Zone), MePDCL, Shillong / Tura.
5. The Additional Chief Engineer (Commercial), MeECL, Shillong, with a request to post this Notice, along with the Bid Document, in the website immediately.
6. The Additional Chief Engineers (M&E / MM), MeECL, Shillong.
7. The Superintending Engineer (Eastern Circle) / (Shillong Distribution) / (Central Circle) / (Western Circle) / (East Garo Hills Circle) / (West Garo Hills Circle), MePDCL.
8. The Public Relations Officer, MeECL, Shillong with a request to put up the notice in the Notice Board.
9. The Director of Information & Public Relations, Government of Meghalaya, Shillong. A soft copy of the Notice is appended herewith with a request to publish in one (01) issue with a font size 10, in one Local English daily and 1 National English newspapers all Editions on the **11<sup>th</sup> November 2020**. Bills (as per DIPR rates) in triplicates may be kindly forwarded to this office for payment.
10. The State Informatics Officer, NIC, Shilling, with a request to kindly take necessary action for publishing the same in the website **http://www.meghalayatenders.gov.in**.
11. Relevant file.

**Superintending Engineer (Project)**  
**MePDCL, Shillong.**

Email: seprojects.mepdcl@gmail.com  
Website: [www.meecl.nic.in](http://www.meecl.nic.in)

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## Meghalaya Power Distribution Corporation Limited

'Lumjingshai', Short Round Road, Shillong, Meghalaya – 793001

E-mail: [seprojects.mepdcl@gmail.com](mailto:seprojects.mepdcl@gmail.com)

Website: [www.meecl.nic.in](http://www.meecl.nic.in)

NIT No. MePDCL/SE (Project)/Off Grid/T-203 (E)/2020-21/01

Dated the 09<sup>th</sup> November, 2020.

### e-Procurement Notice

Tender Reference No. MePDCL/SE (Project)/Off Grid/T-203 (E)/2020-21/01

Dated the 09<sup>th</sup> November, 2020

1	Name of the work	Design, Supply, Testing, Installation & Commissioning of aggregated 50.0 MWp Off-Grid SPV Power Plants in different location in the state of Meghalaya under RESCO Model
2	Estimated Cost	As per MNRE Benchmark for FY 2020-21
3	Period of contract	365 Days
4	Date of publication of NIT on website: <a href="http://meghalayatenders.gov.in">http://meghalayatenders.gov.in</a>	09.11.2020 Time: 14:00 hours
5	Date & time of Pre-bid queries (through e-mail only)	16.11.2020 up to 11:00 hours
6	Last date & time for receipt of online bids	30.11.2020 up to 11:00 hours
7	Submission of original copies of Bid fee & EMD (Offline)	30.11.2020 up to 11:00 hours
8	Technical Bid Opening Date	30.11.2020 at 14:00 hours
9	Name & address of office inviting tender	Superintending Engineer (Projects) Meghalaya Power Distribution Corporation Limited (MePDCL), 'Lumjingshai', Short Round Road, Shillong, Meghalaya – 793001 E-mail: <a href="mailto:seprojects.mepdcl@gmail.com">seprojects.mepdcl@gmail.com</a> Website: <a href="http://www.meecl.nic.in">www.meecl.nic.in</a>
10	Helpline no. of e-procurement	Customer Support: +91-124-4001002, 4001005, (from for any technical queries 24*7 Service available), Email: <a href="mailto:support-eproc@nic.in">support-eproc@nic.in</a>

**Note:** Tender Details and any change can be seen on <http://meghalayatenders.gov.in> and [www.meecl.nic.in](http://www.meecl.nic.in)

# Meghalaya Power Distribution Corporation Limited

'Lumjingshai', Short Round Road, Shillong, Meghalaya – 793001

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Website: [www.meecl.nic.in](http://www.meecl.nic.in)

## SECTION -1

NIT No. MePDCL/SE (Project)/Off Grid/T-203 (E)/2020-21/01

Dated the 09<sup>th</sup> November, 2020.

### List of Important dates & Details of Bids

1.	Name of work	Design, Supply, Installation, Testing, Commissioning, Operation & Maintenance in RESCO Model of aggregated 50.0 MWp Off-Grid SPV Power Plants in different locations in the state of Meghalaya.
2	Tender reference no.	Tender Reference No. MePDCL/SE (Project)/Off Grid/T-203 (E)/2020-21/01 Dated the 09 <sup>th</sup> November, 2020
3	Mode of submission of tender	Online through <a href="http://www.meghalayatenders.gov.in">www.meghalayatenders.gov.in</a>
4	Cost of Bid document (Non-refundable)	<ul style="list-style-type: none"><li>• <b>For Bidder:</b> Rs. 25,000/- (Rupees Twenty-Five Thousand) only.</li><li>• <b>For PSU:</b> NIL</li></ul>
5	Earnest Money Deposit	<ul style="list-style-type: none"><li>• <b>For Bidder: Based on the Bid capacity proposed by the bidder in the bid, EMD shall be furnished.</b></li><li>• EMD amount = (Rs. 4.0 lakhs) x Bid Capacity in MWp</li><li>• <b>For PSU: Nil.</b></li></ul>
6	Date of publication of NIT on website: <a href="http://meghalayatenders.gov.in">http://meghalayatenders.gov.in</a>	09.11.2020 Time: 14:00 hours
7 8	Period of downloading of bidding documents	16.11.2020 up to 11:00 hours
9	Bid online submission	16.11.2020 up to 11:00 hours
	Technical bid opening date	30.11.2020 at 14:00 hours
10	Authority inviting bids	Superintending Engineer (Projects)
11	Address	Meghalaya Power Distribution Corporation Limited (MePDCL), 'Lumjingshai', Short Round Road, Shillong, Meghalaya – 793001 E-mail: Website: <a href="http://www.meecl.nic.in">www.meecl.nic.in</a>

**Note:** The tender fee and Earnest Money Deposit (EMD) in original must be submitted till 30.11.2020 up to 11:00 hours. If tender fee and EMD are not received before mentioned date and time, tender shall not be accepted. Place for receiving tender fee & EMD: Meghalaya Power Distribution Corporation Limited (MePDCL), 'Lumjingshai', Short Round Road, Shillong, Meghalaya – 793001

## **Meghalaya Power Distribution Corporation Limited**

'Lumjingshai', Short Round Road, Shillong, Meghalaya - 793001

E-mail: [seprojects.mepdcl@gmail.com](mailto:seprojects.mepdcl@gmail.com)

Website: [www.meecl.nic.in](http://www.meecl.nic.in)

### **SECTION-2**

**NIT No. MePDCL/SE (Project)/Off Grid/T-203 (E)/2020-21/01**

**Dated the 09<sup>th</sup> November, 2020.**

### **INSTRUCTIONS TO THE BIDDERS (ITB)**

#### **Detailed instructions & documents to be furnished for online bidding**

1. The guidelines to submit bid online can be downloaded from <http://meghalayatenders.gov.in> and <https://meecl.nic.in>
2. The interested bidders can download the bid from the website "<http://meghalayatenders.gov.in>". and <https://meecl.nic.in/> websites.
3. To participate in bidding process, bidders must have '**Digital Signature Certificate (DSC)**' as per Information Technology Act-2000 to participate in online bidding. This certificate will be required for digitally signing the bid. Bidders can get above mentioned digital signature certificate from any approved vendors (CCA). Bidders, who already possess valid Digital Certificates, need not to procure new Digital Certificate.
4. The bidders must have submitted their bids online in electronic format with digital Signature. The bids without digital signature will not be accepted. No proposal will be accepted in physical form.
5. Bids will be opened online as per time schedule mentioned in **Section 1**
6. Bidders should get ready with the scanned copies of cost of Tender Documents & EMD as specified in the tender document. Before submission of online bids, bidders must ensure that scanned copy of all the necessary documents have been attached with bid.
7. Bidder must have to submit the original D.D. towards tender fee & EMD as per the mentioned timelines. The details of cost of documents, EMD specified in the tender documents should be the same as submitted online (scanned copies) otherwise tender will summarily be rejected.
8. Uploaded documents of valid successful bidders will be verified with the original before signing the agreement. The valid successful bidder has to provide the originals to the concerned authority. MePDCL will not be responsible for delay in online submission due to any reason.
9. All the required information for bid must be filled and submitted online.
10. Other details can be seen in the bidding documents.

#### **B. Details of documents to be furnished for online bidding:**

1. Scanned copies of the following documents to be up-loaded (in.pdf format) on the website State Procurement Website i.e. <http://meghalayatenders.gov.in>.
  - i. D. D. towards Tender fee.
  - ii. Duly pledged EMD
  - iii. GST certificate.
  - iv. PAN Card
  - v. Firm's registration certificate.

- vi. Manufacturing or Registration Certificate issued from Government of India/Government of Meghalaya.
  - vii. Audited Balance sheet of last three years.
  - viii. Test certificate of Panels.
  - ix. IEC/BIS certificate of Electronic
2. Scanned copies of the Annexure as per the enclosed formats should be uploaded after converting the same to .pdf format.
    - i. **Annexure-1** : Covering letter.
    - ii. **Annexure-2** : Information about the bidding firm.
    - iii. **Annexure-3** : Declaration by the bidder.
    - iv. **Annexure-4** : Annual Turnover.
    - v. **Annexure-5** : Net Worth certificate.
    - vi. **Annexure-6** : Format for power of attorney for signing of bid.
    - vii. **Annexure-7**: Proof of supply/execution of SPV Items/systems in any SNA/Govt. organisation/PSU/Private in the last three years. Attach copy of orders & its satisfactory completion certificate.
    - viii. **Annexure-8**: Technical details & make of the Equipments to be supplied.
    - ix. **Annexure-10**: Bank Guarantee Format
    - x. **Annexure-14**: Contact Person for the NIT
    - xi. **Annexure-15**: Checklist for technical bid
  3. Duly filled in & digitally signed Price Bid.
  4. Uploaded documents of valid successful bidders will be verified with the original before signing the agreement. The valid successful bidder has to provide the originals to the concerned authority on receipt of such letter, which will be sent through registered post/Email.

## Meghalaya Power Distribution Corporation Limited

'Lumjingshai', Short Round Road, Shillong, Meghalaya – 793001

E-mail: [seprojects.mepdcl@gmail.com](mailto:seprojects.mepdcl@gmail.com)

Website: [www.meecl.nic.in](http://www.meecl.nic.in)

### SECTION-3

**NIT No. MePDCL/SE (Project)/Off Grid/T-203 (E)/2020-21/01      Dated the 09<sup>th</sup> November, 2020.**

**Subject:** Design, Supply, Installation, Testing, Commissioning, Operation & Maintenance in RESCO Model of aggregated 50.0 MWp Off-Grid SPV Power Plants in different locations in the state of Meghalaya.

#### **Preamble:**

With the help of Central Financial Assistance (CFA) from the Ministry of New and Renewable Energy (MNRE), Government of India under the Guidelines for Implementation of Off-grid Solar PV Plants in RESCO Mode issued vide MNRE Office Memorandum dated 22<sup>nd</sup> July 2020, Meghalaya Power Distribution Corporation Limited (MePDCL), wishes to empanel competent, experienced and financially sound bidders, to supply, install, commissioning and to maintain Off-grid SPV Power Plants under RESCO Mode. Meghalaya Power Distribution Corporation Limited (MePDCL) would release the amount to the eligible bidders as per terms and conditions and satisfactory approval from competent authorities' subject to the release of the fund from MNRE, GoI.

“Design, Supply, Installation, Testing, Commissioning, Operation & Maintenance in RESCO Model of aggregated 50.0 MWp Off-Grid SPV Power Plants in different locations in the state of Meghalaya.” which includes design, supply, Installation, testing, Commissioning of SPV Power Plants with all accessories and equipment's, and it's maintenance services for 5 years with free replacement warranty on spare parts against manufacturing defects up to five years. It also includes obtaining all the relevant approvals from MePDCL and the respective Electrical Inspectorate of the state (if required). MePDCL will provide the list of prospective customers/beneficiary list of potential beneficiaries, which will be Government Departments/Buildings/Offices in the State of Meghalaya. MePDCL may also provide necessary support through their District Offices/Officials. The successful bidders have to execute the Supply, Installation & Commissioning of Off-grid SPV Power Plants after getting due approval from MePDCL.

**The total capacity of Off-grid SPV systems shall be 50.0 MWp for Government Department/Buildings/Offices in the State of Meghalaya.**

Bid Description	Category	Aggregate Capacity
Empanelment of Developers for <b>Design, Supply, Testing, Installation &amp; Commissioning of aggregated 50.0 MWp Off-Grid SPV Power Plants in different location in the state of Meghalaya under RESCO Model</b>	Government Departments/Buildings /Offices (RESCO Mode)	50.0 MWp



Ministry of New and Renewable Energy (MNRE), Government of India vide **Order No. 318/38/2018-GCRT dated 25<sup>th</sup> June 2020** has issued the Benchmark cost for **Off-grid SPV Projects for Financial Year 2020-21**.

Capacity	Battery Backup (In Hours)	Benchmark Cost (Rs. Per Wp) for North East States	Capacity (MWp)	Minimum Bidding Capacity per Bidder	Maximum Capacity per Bidder
Up to 10 kW	6	103	50.0 MWp	5000 kWp	50000 kWp
	3	81			
	1	68			
Above 10 kW and up to 25 kW	6	92			
	3	72			
	1	60			

*The above Benchmark costs are for system installed as per MNRE specifications, inclusive of the total system cost and its installation, commissioning, transportation, insurance, Comprehensive maintenance charges for five years, Online Monitoring and applicable fees and taxes.*

**Part -I: -General Conditions:**

The bidder should fulfill any of the following conditions: -

1. The bidders should be either a body incorporated in India under the Companies Act, 1956 or 2013 including any amendment thereto and engaged in the business of Solar Power. The bidder should have a valid PAN & GST registration number.

**Part-I: Technical Eligibility:**

**I. For Bidder:** Bidder should have to qualify the following:

- The bidder/consortium should have Supplied Solar PV Components/Installed Plant having cumulative aggregate capacity not less than **2 MWp** prior to Techno-Commercial Bid opening date. Vendors have to submit scanned copy of the Supply/commissioning Work Order/ Contract/ Agreement from the Client/ Owner.
- Ministry of New and Renewable Energy (MNRE), Government of India vide **No. 32/6/2020-SPV Division dated 22<sup>nd</sup> July 2020** has issued detailed **“Guidelines for Implementation of Off-grid Solar Power Packs/Plants in RESCO Mode”** and highlighted the importance of SPV Off-grid Plants and highlighted that such capacities

will be floated in RESCO Model. In view of this, Meghalaya Power Distribution Corporation Limited (MePDCL) has kept aggregated 50.0 MWp capacity under RESCO Mode to be offered to Project Developers/ Empanelled Partners for installation over the Government Buildings/Department/Offices in the State of Meghalaya.

- Bidders are allowed to quote between **5000 kWp (Minimum)** and **50000 kWp (Maximum)** for further capacity allocation under the current bid for installation in the State of Meghalaya. Otherwise, their bid will out rightly be rejected.
- The bidder (PSU Exempted) may sign MoU with parties having valid GST registration in Meghalaya, trading license of Meghalaya (copies to be attached) to carry out the installation and commissioning and CMC on a Non-Judicial stamp paper of value not less than Rs. 100 and notarise it and submit the copy of an MOU along with the bid.
- Bidders have to download the bid document from website ([www.meghalayatenders.gov.in](http://www.meghalayatenders.gov.in)) and submit the scan copy of the cost of the bid document to be submitted in shape of demand draft of requisite value as mentioned in **Section-1** (List of Important dates & details of Bids) in favour of “Principal Account, MeECL” from any Indian Nationalized Bank/Scheduled Bank, payable at “Shillong”. The tender fee in original must be submitted from dated 09.11.2020 to 30.11.2020 by 11.00 Hrs IST in the office of the Superintending Engineer (Preojets), Meghalaya Power Distribution Corporation Limited (MePDCL), Lumjingshai, Short Round Road, Shillong-793001.
- Bidders should submit **Earnest Money** in Part - I (Technical Bid) in the form of Demand Draft / Bank Guarantee of requisite value as mentioned in “Section-1 (List of Important dates & details of Bids)”. The Demand Draft / Bank Guarantee shall be made in favour of “Principal Account, MeECL” payable at Shillong from any Indian Nationalised bank/Scheduled bank. The bank guarantee shall remain valid for 12 months from date of awarding the contract. Only Original Demand Draft / Bank Guarantee shall be accepted. The EMD fee in original must be submitted from 09.11.2020 to 30.11.2020 by 11.00 Hrs IST in the office of MePDCL, Lumjingshai, Shillong.
- **Allocation of work:** The Lowest Tariff Rate i.e. L1 received would be the appropriate tariff rate for awarding the work; rest L2, L3, L4..... will be awarded based upon their confirmation to meet the L1 tariff rate till completion of capacity. MePDCL only may allot the work to Single L1 bidder.

## Meghalaya Power Distribution Corporation Limited

'Lumjingshai', Short Round Road, Shillong, Meghalaya – 793001

E-mail: [seprojects.mepdcl@gmail.com](mailto:seprojects.mepdcl@gmail.com)

Website: [www.meecl.nic.in](http://www.meecl.nic.in)

### SECTION-4

**NIT No. MePDCL/SE (Project)/Off Grid/T-203 (E)/2020-21/01      Dated the 09<sup>th</sup> November, 2020.**  
**Instructions to the Bidders (ITB)**

#### **A. General Information:**

##### **1. Scope of Bid:**

- 1.1. The MePDCL invites bids for the work as described in these documents and referred to as "the works". The name and identification number of the works is provided in the Notice Inviting Bid.
- 1.2. The successful Bidder will be expected to complete the Works by the Intended Completion time period of Three (03) Months from placement of Award by the MePDCL. Maximum Extension for Three (03) Months can be provided to RESCO provided the Reason beyond the control of RESCO.
- 1.3. **Implementation Model:** The solar power plant shall be designed to supply Daily Minimum Guaranteed Energy (DMGE) to the beneficiary at the delivery point. The RESCO Company selected through competitive bidding will install the plant and operate the plant to supply DMGE to the beneficiary organisation at the discovered tariff for the aforementioned period. The beneficiary will make payment to the MePDCL according to the DMGE. During the periods of overcast/ cloudy/ rainy conditions lasting continuously for 3 (three) days or more, the requirement of DMGE shall be reduced to 30% on per day basis from the third day onwards. DMGE requirement shall restore from the day such weather conditions subside.
- 1.4. **Selection of Bidders:** RESCO Company will be selected through open competitive bidding to be conducted by implementing agency. Bidders will be invited to submit proposals for installation of the off- grid solar power plant at the specified location for 10/15 years based on plant capacity. Bidder quoting the lowest tariff for supply of power to the beneficiary organisation, will be eligible for award of project.
- 1.5. **Power Purchase Agreement:** The Power Producer i.e. RESCO and Power Purchaser i.e. MePDCL shall sign a PPA. Power producer shall be responsible to design, install, operate and maintain the solar power plant to supply Daily Minimum Guaranteed Energy (DMGE) to the beneficiary and beneficiary will make payment to MePDCL for the DMGE at tariff decided through bidding process Plus MePDCL share on monthly basis to MePDCL. In case the Power Producer fails to supply DMGE or power required by the beneficiary, whichever is less, the developer will be liable to pay penalty for the units supplied less than the DMGE at a rate specified in the PPA. The penalty could be up to two times of the rate at which power is supplied by the developer to the beneficiary. Daily Minimum Guaranteed Energy (DMGE) will not be applicable for days having less than 6 (six) hours of sunlight. **Model PPA is attached with this Tender Document.**

##### **2. Source of Funds:**

- 1.1. MePDCL has decided to undertake the works of **‘Design, Supply, Testing,**

**Installation, Commissioning, Operation & Maintenance of aggregated 50.0 MWp Off-Grid SPV Power Plants in different location in the state of Meghalaya under RESCO Model”** through Central Financial Assistance (CFA) from Ministry of New and Renewable Energy, Government of India to be implemented through Meghalaya Power Distribution Corporation Limited (MePDCL).

### **3. Eligible Bidders:**

- 1.1. This Invitation for Bids is open to all bidders as defined in the Notice Inviting Tender.
- 1.2. Bidders shall not be under a declaration of ineligibility for corrupt and fraudulent practices by the Central Government, the State Government or any public undertaking, autonomous body, authority by whatever name called under the works.

### **4. Qualification of the Bidder:**

- 1.1. All bidders shall provide in Section 3, Forms of Bid and Qualification information, a preliminary description of the proposed work method and schedule, including drawings and charts, as necessary.
- 1.2. All bidders shall include the following information and documents with their bids in Section 3, Qualification Information unless otherwise stated in the Notice Inviting Bid/ITB.
  - a) Copies of original documents defining the constitution or legal status, place of registration, and principal place of business.
  - b) Copy of written power of attorney of the signatory of the Bid for bidding.
  - c) Total monetary value of the similar nature of the works performed for each of the last seven years;
  - d) Experience in works in Last Three (03) Years with completion certificates from the concerned officer or competent authority.
  - e) Audited reports on the financial standing of the Bidder, such as profit and loss statements and auditor's reports for the last three (03) years.
  - f) Authority to seek references from the Bidder's bankers;
  - g) Information regarding any litigation or arbitration during the last seven years in which the Bidder is involved, the parties concerned, the disputed amount, and the matter;
- 1.3. Bids from consortium are allowed.
- 1.4. To qualify for award of the Contract, each bidder should meet the following criteria:
  - a) **Annual Turn Over:**  
**For Bidder:** Bidder/Consortium should have the minimum average Annual Turnover of 25% of Bid Capacity derived from the last three (03) financial

years ending on 31.03.2020 on the basis of audited annual accounts.

**For PSU:** Bidder/consortium should have the average Annual Turnover of 10% of Bid Capacity derived from the last three financial years ending on 31.03.2020 on the basis of audited annual accounts.

The certificate should be issued by CA who has performed audit of accounts with UID no. as per the Performa given at **Annexure-4**

**OR**

**b) Net worth Requirement:**

**For Bidder:** Bidder/consortium should have Positive Net Worth of minimum **10% of Bid Capacity** as on 31.03.2020 on the basis of audited annual accounts.

**For PSU:** Bidder/consortium should have Positive Net Worth of minimum **5%** of Bid Capacity as on 31.03.2020 on the basis of audited annual accounts.

Net worth certificate should be issued by CA who has performed audit of accounts on their Letter Head.

**c) Experience:**

**For Bidder:** Bidder/consortium should have experience of successfully Supply/Installation of at least cumulative 2 MWp capacity of Solar PV Components/ Plant in any SNA / Govt. Organisation / PSU / Autonomous Bodies/ Private Organisation etc. in the last three years ending up to date of advertisement of this tender.

The copy of order and certificate indicating its successful execution should be enclosed with the checklist.

**1.1.B. (a) Each bidder must produce:**

- i) PAN.
- ii) An affidavit that the information furnished with the bid documents is correct in all respects; and
- iii) Such other certificates as defined in the Notice Inviting Bid. Failure to produce the certificates shall make the bid non-responsive.

**1.4. Even though the bidders meet the above qualifying criteria, they are subject to be disqualified if they have:**

- i) Made misleading or false representations in the forms, statements, affidavits and attachments submitted in proof of the qualification requirements; and/or
- ii) Record of poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion, litigation history, or financial failures
- iii) Participated in the previous bidding for the same work and had quoted **unreasonably high or low tariff rates** and could not furnish rational justification for it to MePDCL.

**5. One Bid per Bidder**

- 1.1. Each Bidder shall submit only one Bid for one work. A Bidder who submits more than one Bid will be disqualified.

## **6. Cost of Bidding**

- 1.1. The Bidder shall bear all costs associated with the preparation and submission of his Bid, and MePDCL will, in no case, be responsible or liable for those costs.

## **7. Site Visit**

- 1.1. The Bidder, at his own cost, responsibility and risk, is encouraged to visit, examine and familiarise himself with the Site of Works and its surroundings and obtain all information that may be necessary for preparing the Bid and entering into a contract for supply, installation and providing Daily Minimum Granted Energy (DMGE) to the beneficiaries. The costs of visiting the Site shall be at the Bidder's own expense. He may contact the person whose contact details are given in the Notice Inviting Tender.

## **B. Bidding Documents**

### **8. Content of Bidding Documents**

- 1.1. The set of bidding documents comprises the documents listed below, and addenda issued in accordance with Clause 10 of ITB.
  1. Notice Inviting Tender
  2. Instructions to Bidders
  3. Qualification Information
  4. Conditions of Contract
  5. Specifications
  6. Bill of Quantities (BOQ)
  8. Form of Bid
  9. Form of Bank Guarantee.
- 1.2. The bidder is expected to examine carefully all instructions, conditions of contract, data, forms, terms and specifications, bill of quantities, forms in the Bid Document and other additional instructions quoted in issued **“Guidelines for Implementation of Off-grid Solar Power Packs/Plants in RESCO Mode”** of MNRE, GoI. Failure to comply with the requirements of Bid Documents shall be at the bidder's own risk. Pursuant to clause 23 hereof, bids, which are not substantially responsive to the requirements of the Bid Documents, shall be rejected.

### **9. Clarification on Bid Documents and Pre-bid Meeting:**

- 1.1. A prospective Bidder requiring any clarification of the bid documents may notify to the MePDCL in writing at the address indicated in the Notice Inviting Tenders. MePDCL's response will be uploaded in form of corrigendum on State Procurement Portal ([www.meghalayatenders.gov.in](http://www.meghalayatenders.gov.in)) and MeECL ([www.meecl.nic.in](http://www.meecl.nic.in)) websites.
- 1.2. Pre-bid queries can be sent through E-mail at [seprojects.mepdcl@gmail.com](mailto:seprojects.mepdcl@gmail.com) till

16.11.2020 up to 11:00 hours.

- 1.3. The purpose of such queries will be to clarify issues and to answer questions on any matter that may be raised at that stage.
- 1.4. The bidder is requested to submit any questions in writing also as to reach the MePDCL not later than two (02) days before the pre-bid queries submission deadline.
- 1.5. Any modifications of the bid document listed in **Clause 8.1 of ITB**, which may become necessary as a result of the pre-bid queries shall be made by the MePDCL exclusively through the issue of an Addendum/Corrigendum pursuant to **Clause 10 of ITB** on State Procurement Portal ([www.meghalayatenders.gov.in](http://www.meghalayatenders.gov.in)) and MeECL ([www.meecl.nic.in](http://www.meecl.nic.in)) websites.

#### **10. Amendment of Bidding Documents**

- 1.1. Before the deadline for submission of bids, the MePDCL may modify the bidding documents by issuing addenda/corrigendum.
- 1.2. To give prospective bidders reasonable time in which to take an addendum into account in preparing their bids, the MePDCL shall extend, if necessary, the deadline for submission of bids, in accordance with **Clause 19.2 of ITB**.

#### **C. Preparation of Bids**

##### **11. Language of Bid**

- 1.1. All documents relating to the Bid shall be in only English language as specified in the Notice Inviting Bid (NIB).

##### **12. Documents Comprising the Bid**

###### **A. Technical Bid – (Fee/Pre-Qualification/Technical Cover)**

###### **i. EMD & Tender Fee**

- Scanned Copy of Demand draft drawn in favour of “Principal Account, MeECL”, payable at “Shillong” towards Cost of Tender Fee and Earnest Money Deposit as specified in the Notice Inviting Tender.

###### **ii. Technical Details & Declaration**

- Proposed work programme (work method, time schedule and financial flow), description, and charts as necessary (Duly to be signed digitally) to comply with the requirement of the Bidding Document. All the Technical components should be as per the MNRE/BIS Standard.

###### **iii. Technical Details of documents**

Scanned copies/Prescribed Formats of Documents to be attached in .pdf format file

duly digitally signed by the bidder.

- a) PAN Card
- b) GST certificate.
- c) Proof of completion of works during the last three (03) years and list of works in hand in the prescribed formats duly signed by the competent authority of the issuing Department.
- d) List of works for which bids already submitted.
- e) Audited financial Report for the last 3 years (upto 31.03.2020) certified by chartered Accountant.
- f) Annual Turn over Details certified by Chartered Accountant.
- g) Net worth certificates certified by Chartered Accountant.
- h) List of current litigant cases in which the bidder is involved (if any).
- i) An affidavit for non-engagement and non-blacklisting by any State Government/Central Government/Private Entities or any other for similar kind of work.
- j) Proof of test certificates of batteries and latest test certificate should confirm as per MNRE/BIS specifications as per the prevailing Guidelines for Off-grid SPV Plants and their amendments. The valid test certificates as per MNRE/BIS standard should be submitted along with bid.
- k) Undertaking of Bidder that he is able to invest minimum of cash up to 10% as defined in ITB.
- l) Undertaking for validity of bid for 180 days.

**B – Financial Bid – (Only need to be submitted in Online Mode)**

- Duly Quoted & digitally signed Bill of Quantity (BoQ) in the file supplied by MePDCL in .xls format shall be uploaded on State Procurement Portal ([www.meghalayatenders.gov.in](http://www.meghalayatenders.gov.in)).

**1.2. The following documents, which are not submitted with the bid, will be deemed to be part of the bid.**

**Section Particulars**

- Notice inviting Tender
- Instruction to the Bidders
- Conditions of Contract
- Contract Details



- Technical Specifications as per MNRE/BIS Standard

### **13. Bid Prices**

- 1.1. The Contract shall be for the whole Works, as described in **Clause 1.1 of ITB**.
- 1.2. All duties, taxes, royalties and other levies payable by the Contractor under the Contract, or for any other cause, shall be included in the rates, prices, and total Bid price submitted by the Bidder.
- 1.3. The tariff quoted by the Bidder shall be fixed for the duration of the Contract/Agreement and shall not be subject to adjustment.
- 13.6 Tenderers should quote their rates considering wide variation of site conditions, variation in price of different components and keeping the quantum and quality of work in mind. If MePDCL anticipates that rate is abnormally low or high, bidder may ask for additional clarification and if required bid may be dropped subject to the approval of Competent Authority.

### **14. Currencies of Bid**

- 1.1. The unit rates and the prices shall be quoted by the bidder entirely in Indian Rupees (INR).

### **15. Bid Validity**

- 1.1. Bids shall remain valid for a period of **365 days after the issuance of Letter of Allocation (LoA)** to the successful bidders or till completion of the project, whichever is earlier. A bid valid for a shorter period shall be rejected by the MePDCL as non-responsive.
- 1.2. In exceptional circumstances, prior to expiry of the original time limit, the MePDCL may request to the bidders for extension of the period of validity for a specified additional period. The request and the bidders' responses shall be made in writing on Company Letter Head. A bidder may refuse the request without forfeiting his Earnest Money Deposit (EMD). A bidder agreeing to the request will not be required or permitted to modify his bid but will be required to extend the validity of his earnest money for a period of the extension, and in compliance with **Clause 16** of ITB in all respects.

### **16. Earnest Money.**

- 1.1. The Bidder shall furnish, as part of the Bid, Earnest Money, in the amount specified in the Notice Inviting Bid.
- 1.2. The Earnest Money shall, at the Bidder's option, be in the form of Bank Guarantee/Demand Draft of a scheduled commercial bank, issued in favour of "Principal Account, MeECL" payable at "Shillong". Earnest Money shall be valid for

12 months or more after the last date of receipt of bids.

- 1.3. Any bid not accompanied by an acceptable Earnest Money, unless exempted as given in the Notice Inviting Bid, shall be rejected by the MePDCL as nonresponsive.
- 1.4. The Earnest Money of unsuccessful bidders will be returned within 30 days post submission of Bank Guarantee amount as per latest Guidelines issued vide MNRE Office Memorandum date 22<sup>nd</sup> July 2020 on **“Guidelines for implementation of Off-grid Solar Power Packs/Plants in RESCO Mode”**.
- 1.5. The Earnest Money of the successful Bidder will be discharged when the Bidder has signed the Agreement and furnished the required Bank Guarantee.
- 1.6. The Earnest Money may be forfeited:
  - a) if the Bidder withdraws the Bid after bid opening during the period of Bid validity;
  - b) in the case of a successful Bidder, if the Bidder fails within the specified time limit to
    - i. Sign the Agreement; and/or
    - ii. Furnish the required Performance Bank Guarantee Amount.

## **17. Alternative Proposals by Bidders**

- 1.1. Bidders shall submit offers that comply with the requirements of the bidding documents, including the Bill of Quantities (BOQ) and the basic technical design as indicated in the drawings and specifications. Alternative proposals will be rejected as non-responsive.

## **C. Submission of Bids**

### **18. Sealing and Marking of Bids**

- 1.1. The Bidder shall place the two separate Envelope (Envelope-I) marked **“Technical Bid”** and **“Financial Bid”** (Envelope- -II). The Envelope will have markings as follows:

**Technical Bid:** To be opened on (date and time of Technical Bid opening as per **clause 20.1** of ITB.)

**Financial Bid:** Bidders should submit Financial Bids through Online Mode only by using State Procurement Portal. While, Bidders may put the **Original Tender Fee and EMD under the Envelope Cost of Bidding Document and EMD**.

- 1.2. Technical Bid shall
  - a) be addressed to the MePDCL at the address provided in the Notice Inviting Bid
  - b) Bear the name and identification number of the Contract as defined in **clause 1.1** of ITB; and
  - c) provide a warning not to open before the specified time and date for Bid opening as

defined in **clause 20.1 of ITB.**

**19. Deadline for Submission of Bids**

- 1.1. Complete Bids (including Technical, Original Tender Fee and Earnest Money) must be received by the MePDCL at the address specified in the Notice Inviting Bid not later than the date and time indicated in the Notice Inviting Tender.
- 1.2. The MePDCL may extend the deadline for submission of bids by issuing an amendment in accordance with Clause 10.2 of ITB, in which case all rights and obligations of the MePDCL and the bidders previously subject to the original deadline will then be subject to the new deadline.

**D. Bid Opening and Evaluation**

**20. Bid Opening**

- 1.1. The MePDCL will open the bids received (except those received late). In the event of the specified date for the submission of bids being declared a holiday for MePDCL, the Bids will be opened at the appointed time and location on the next working day.
- 1.2. The Envelope containing the technical bid shall be opened. The document marked "**Cost of Bidding Document and EMD**" will be opened first and if the cost of the bidding documents is not there, or incomplete, the remaining bid documents will not be opened, and bid will be rejected.
- 1.3. In all other cases, the amount of Earnest Money, forms and validity shall be checked and announced. Thereafter, the bidders' names and such other details as the MePDCL may consider appropriate, will be announced by the MePDCL at the opening.
- 1.4. **MePDCL will prepare Minutes of the Bid opening**, including the information disclosed to those present in accordance with **Clause 20.3 of ITB.**
- 1.5. Evaluation of the technical bids with respect to bid security, qualification information and other information furnished in Part-I of the bid in pursuant to **Clause 12.3 of ITB**, shall be taken up and completed and a list will be drawn up of the responsive bids whose financial bids are eligible for consideration.
- 1.6. The MePDCL shall inform, by letter/email, the bidders, whose technical bids are found responsive, date, time and place of opening as stated in the Notice Inviting Bid. In the event of the specified date being declared a holiday for the MePDCL, the bids will be opened at the appointed time and location on the next working day through they or their representative, may attend the meeting of opening of financial bids.
- 1.7. At the time of the opening of the 'Financial Bid', the names of the bidders whose Technical bids were found responsive in accordance with clause 20.5 of ITB will be

announced. The financial bids of only these bidders will be opened. The remaining bids will not be opened. The responsive bidders' names, the Bid prices, the total amount of each bid, and such other details as the MePDCL may consider appropriate will be announced by the MePDCL at the time of bid opening. Any Bid price which is not read out and recorded, will not be taken into account in Bid Evaluation

- 1.8. The MePDCL shall prepare the minutes of the opening of the Financial Bids.

## **21. Process to be Confidential**

- 1.1. Information relating to the examination, clarification, evaluation, and comparison of bids and recommendations for the award of a contract shall not be disclosed to bidders or any other persons not officially concerned with such process until the award to the successful Bidder has been announced. Any attempt by a Bidder to influence the MePDCL's process of bidding or award decisions may result in the rejection of his Bid.

## **22. Clarification of Bids and Contacting the MePDCL**

- 1.1. No Bidder shall contact the MePDCL on any matter relating to its bid from the time of the bid opening to the time the contract is awarded.
- 1.2. Any attempt by the bidder to influence the MePDCL's bid evaluation, by any means, bid evaluation, bid comparison or contract award decision may result in the rejection of his bid.

## **23. Examination of Bids and Determination of Responsiveness**

- 1.1. During the detailed evaluation of "**Technical Bids**", the MePDCL will determine whether each Bid **(a)** meets the eligibility criteria defined in **Clauses 3 and 4**; **(b)** has been properly signed; **(c)** is accompanied by the required securities; and **(d)** is substantially responsive to the requirements of the bidding documents. During the evaluation of the online submitted "**Financial Bids**", the responsiveness of the bids will be further determined with respect to the remaining bid conditions, i.e., priced bill of quantities, technical specifications and drawings.
- 1.2. A substantially responsive "**Financial Bid**" is one, which conforms to all the terms, conditions, and specifications of the bidding documents, without material deviation or reservation. A material deviation or reservation is one **(a)** which affects in any substantial way the scope, quality, or performance of the Works; **(b)** which limits in any substantial way, inconsistent with the bidding documents, the MePDCL's rights or the Bidder's obligations under the Contract; or **(c)** whose rectification would affect unfairly the competitive position of other bidders presenting substantially responsive bids.
- 1.3. If a "**Financial Bid**" is not substantially responsive, it may be rejected by the MePDCL,

and may not subsequently be made responsive by correction or withdrawal of the nonconforming deviation or reservation.

#### **24. Corrections of Errors**

- 1.1. Bids determined to be substantially responsive, will be checked by the MePDCL for any arithmetic errors. Errors will be corrected by the MePDCL as follows:
  - a) where there is a discrepancy between the rates in figures and in words, the rate in words will govern; and
  - b) where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will govern.
- 1.2. The amount stated in the Bid will be adjusted by the MePDCL in accordance with the above procedure for the correction of errors and shall be considered as binding upon the Bidder. If the Bidder does not accept the corrected amount, the Bid will be rejected, and the Earnest money shall be forfeited in accordance with **Clause 16.6(b) of ITB**.

#### **25. Evaluation and Comparison of Bids**

- 1.1. The MePDCL will evaluate and compare only the bids determined to be substantially responsive in accordance with Clause 23 of ITB.
- 1.2. In evaluating the bids, the MePDCL will determine for each Bid the evaluated Bid price by adjusting the Bid price by making correction, if any, for errors pursuant to Clause 24 of ITB.
- 1.3. If the Bid of the successful Bidder is seriously unbalanced in relation to the Engineer's estimate of the cost of work to be performed under the contract, the MePDCL may require the Bidder to produce detailed price analysis for any or all items of the Bill of Quantities, to demonstrate the internal consistency of those prices with the construction methods and schedule proposed. After evaluation of the price analyses, the MePDCL may require that the amount of the performance security set forth in Clause 32 of ITB be increased at the expense of the successful Bidder to a level sufficient to protect the MePDCL against financial loss in the event of default of the successful Bidder under the Contract. The amount of the increased performance security shall be decided at the sole discretion of the Employer, which shall be final, binding and conclusive on the bidder.
- 1.4. After its evaluation, the MePDCL may require that the amount of the Bank Guarantee set forth in Clause 30 be increased at the expense of the successful Bidder to a level sufficient to protect the MePDCL against financial loss in the event of default of the successful Bidder under the Contract. The amount of the increased performance security shall be decided at the sole discretion of the MNRE/MePDCL, which shall be

final, binding and conclusive on the bidder.

**26. Price Preference**

- 1.1. There will be no price preference to any bidder.

**E. Award of Contract**

**27. Award Criteria**

- 1.1. Subject to Clause 29 of ITB, the MePDCL will award the Contract to the Bidder whose Bid has been determined to be substantially responsive to the bidding documents and who has offered the lowest evaluated Bid price, provided that such Bidder has been determined to be (a) eligible in accordance with the provisions of Clause 3 of ITB, and (b) qualified in accordance with the provisions of Clause 4 of ITB; and as per clause 14 of Notice Inviting Bid (Section-3).

**28. MePDCL's Right to accept any Bid and to reject any or all Bids**

- 1.1. Notwithstanding **Clause 27** above, the MePDCL reserves the right to accept or reject any Bid, and to cancel the bidding process and reject all bids, at any time prior to the award of Contract, without thereby incurring any liability to the affected Bidder or bidders or any obligation to inform the affected Bidder or bidders of the grounds for the MePDCL's action without any reason.

**29. Notification of Award and Signing of Agreement**

- 1.1. The bidder whose Bid has been accepted will be notified of the award by the MePDCL prior to expiration of the Bid validity period by issuing Letter of Acceptance. This letter (hereinafter and in the Part I - General Conditions of Contract called the "Letter of Acceptance") will state the sum that the MePDCL will pay to the Contractor in consideration of the execution and completion of the Works (hereinafter and in the Contract called the "Contract Price"). The notification of award will constitute the formation of the Contract, subject only to the furnishing of a performance security in accordance with the provisions of **Clause 30**.
- 1.2. The Agreement will incorporate NIT document, Work order & subsequent amendments between MePDCL and the successful Bidder. It will be signed by the MePDCL and the successful Bidder after submission of Bank Guarantee.
- 1.3. Upon the furnishing by the successful Bidder of the Performance Bank Guarantee, the MePDCL will promptly notify the other Bidders that their Bids have been unsuccessful.

**30. Bank Guarantee:**

- 1.1. Successful bidder shall submit a **Bank Guarantee of 40% amount of eligible Central**

**Financial Assistance (CFA)** provided by the Ministry of New and Renewable Energy (MNRE), Government of India with validity of 5 Years (for SPV Plant Size up to 10 kWp). If Bank Guarantee will not be submitted within stipulated period from the date of issue of work order, then MePDCL Shall cancel the work order. The Bank Guarantee will be released at the end of Five (05) Years or at the time of Battery Replacement, whichever is later for the project up to 10 kWp Capacity (10 Year project lifetime). The Bank Guarantee will be released at the rate of 40% of Bank Guarantee at the end of Five (05) Years or at the time of Battery Replacement, whichever is later and Balance 60% of Bank Guarantee will be released at the end of 10 Years or Second (2<sup>nd</sup>) replacement of Batteries, whichever is later. The Bank Guarantee/Performance Guarantee shall be submitted in the form of Bank Guarantee in favour of “Principal Account, MeECL” payable at “Shillong” from any Indian Nationalized/Scheduled Bank.

- 1.2. In case of Successful PSU shall submit a Indemnity bond on Rs 100 Non-Judicial stamp paper and Post Dated cheque of **40% amount of eligible Central Financial Assistance (CFA)** provided by the Ministry of New and Renewable Energy (MNRE), Government of India with validity of 5 Years (for SPV Plant Size up to 10 kWp).
- 1.3. The Bank Guarantee will have to be maintained by the bidder with MePDCL for 5 Years (for SPV Plant up to 10 kWp capacity) and 10 Years (for SPV Plant more than 10 kWp and up to 25 kWp capacity) or First (1st) and Second (2<sup>nd</sup>) replacement of Batteries, whichever is later.

### **32. Five Years Comprehensive Maintenance Contract (CMC):**

- 1.1. The SPV Power Plant contract price includes the provision of 5 years mandatory Comprehensive Maintenance Contract (CMC). To ensure long term sustainability of the system, the bidder must provide his representatives name, full address, mobile number and photographs to MePDCL with one hard copy as well as the names and contact details of all technicians must also be provided. Failure to do shall invite penalty and action.
- 1.2. The Comprehensive Maintenance Contract shall include servicing & replacement guarantee for parts and components (such as battery, electronics, Inverter, existing PV modules and other hardware) running, operation and maintenance of SPV Power Plant for five years from the date of installation. Battery should be warranted for a minimum life of 5 years. The contractor has to make suitable arrangement for running, operation and maintenance of SPV Power Plant by deputing electrician and other

persons required in the plant 24 x 7 so that all the SPV Power Plants are functional every day. The date of CMC maintenance period shall begin on the date of actual commissioning of SPV Power Plants. It is mandatory for the contractor to carry out CMC regularly and submit report to MePDCL monthly. Failure to submit monthly CMC reports timely shall invite penalty and action.

- 1.3. The Contractor should have sufficient numbers of skilled staff for proper maintenance of SPV Power Plant. The bidder should submit a work plan for implementation of the work and details of person/staff to be deployed for CMC work.

**33. Preventive/Routine Maintenance:**

This shall be done by the supplier/contractor at least once in every month and shall include activities such as, cleaning and checking the health of the SPV system, cleaning of module surface, topping up of batteries, tightening of all electrical connections, regular checks to identify any leakage of electricity, changing of tilt angle of module mounting structure, cleaning & greasing of battery terminals and any other activity that may be required for proper functioning of the Solar Photovoltaic Power Plant. The maintenance record should be kept properly and to be submitted at MePDCL office time to time. CMC documents should be certified by Beneficiary. The Monthly maintenance record shall also indicate the energy generated to fulfill the Daily Minimum Guaranteed Energy (DMGE).

**34. Breakdown / corrective Maintenance:**

The Power Producer i.e. RESCO and Power Purchaser i.e. MePDCL shall sign a PPA. Power producer shall be responsible to design, install, operate and maintain the solar power plant to supply Daily Minimum Guaranteed Energy (DMGE) to the beneficiary and beneficiary will make payment for the DMGE at tariff decided through bidding process Plus MePDCL share on monthly bill to MePDCL. In case the Power Producer fails to supply DMGE or power required by the beneficiary, whichever is less, the developer will be liable to pay penalty for the units supplied less than the DMGE at a rate specified in the PPA. The penalty could be up to two (02) times of the rate at which power is supplied by the developer to the beneficiary. Daily Minimum Guaranteed Energy (DMGE) will not be applicable for days having less than 6 (six) hours of sunlight.

**35. Advances**

- 1.1. The MePDCL will not provide Mobilization Advance and Advance against the security of equipment.

**36. Corrupt or Fraudulent Practices**

The MePDCL requires the bidders/Contractors to strictly observe the laws against fraud and corruption in force in India, namely, Prevention of Corruption Act, 1988.



**37. Timeline/ Completion Period:**

The time of completion shall be adhered as per the timeline defined in the table below:

<b>Sr. No.</b>	<b>Work</b>	<b>Completion Period/Start time</b>
1	Design, Supply, Testing, Installation & Commissioning of aggregated 50.0 MWp Off-Grid SPV Power Plants in different location in the state of Meghalaya under RESCO Model	3 Months from issuance of Letter of Allocation/Work Order and Maximum Extendable for 3 more months subject to providing the justification of Delay.

**Meghalaya Power Distribution Corporation Limited,**  
'Lumjingshai', Short Round Road, Shillong, Meghalaya – 793001  
E-mail:seprojects.mepdcl@gmail.com  
Website: [www.meecl.nic.in](http://www.meecl.nic.in)

**SECTION-5**

**NIT No. MePDCL/SE (Project)/Off Grid/T-203 (E)/2020-21/01**

**Dated the 09<sup>th</sup> November, 2020.**

**General Terms & Conditions**

**1.0 Introduction:**

The instruction/information contained in the bid documents are for guidance and compliance of the intending bidder. Bidders are advised to obtain clarification from MePDCL, if any, prior to submission of their bid, failing which it will be deemed that the stipulation made in the bid documents have been read, understood and are acceptable to the bidder.

Bidder shall bear all costs associated with the preparation and submission of the bid, journeys undertaken by them and subsequent bidding process till the award of the order to successful bidder and the MePDCL shall in no case, shall be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.

**1.1. Scope of work:**

The Scope of work includes **"Design, Supply, Testing, Installation, Commissioning, Operation & maintenance of aggregated 50.0 MWp Off-Grid SPV Power Plants in different location in the state of Meghalaya under RESCO Model"** in all respects as per terms and condition prevailing in the MNRE Office Memorandum Dated 22<sup>nd</sup> July 2020 on **"Guidelines for Implementation of Off-grid Solar Power Pack/Plants in RESCO Mode"** .

**The Scope of Work is as mentioned below: -**

- i. Design, Supply, Testing, Installation & Commissioning of aggregated 50.0 MWp Off-Grid SPV Power Plants in different location in the state of Meghalaya under RESCO Model
- ii. The quoted tariff rate includes the provision of 5 years of Comprehensive Maintenance Contract (CMC) to ensure long-term sustainability of the system for the SPV Power Plants upto 10 kWp Capacity (10 Year project lifetime) and more than 10 kWp and upto 25 kWp (15 Year lifetime) and meet the **Daily Minimum Guaranteed Energy (DMGE) as per the latest MNRE Guidelines**. The contractor should provide his representative's name, full address, mobile number, and photographs to MePDCL in hard copy.

iii. The Operation and Maintenance shall include ensuring operation of system on day to day basis. The system should be operational from evening to morning with full illumination. The contract shall include ensuring servicing & replacement guarantee for parts and components (such as battery, electronics, Inverter, PV modules and other hardware of SPV SPP for five years. Battery should be warranted for a minimum life of 10 years. The date of CMC shall begin from the date of issuance of work order for CMC contract. It is mandatory for the contractor to carry out CMC regularly and submit report to MePDCL on monthly basis.

iv. **Preventive/Routine Maintenance:**

This shall be done by the Contractor once in every **three (03) months** and shall include activities such as, cleaning and checking the health of the SPV system, cleaning of module surface, topping up of batteries, tightening of all electrical connections, regular checks to identify any leakage of electricity, changing of tilt angle of module mounting structure, cleaning & greasing of battery terminals and any other activity that may be required for proper functioning of the SPV Power Plant. The maintenance record should be kept properly and to be submitted at MePDCL time to time.

v. **Breakdown/Corrective Maintenance**

The Power Producer i.e. RESCO and Power Purchaser i.e. MePDCL shall sign a PPA. Power producer shall be responsible to design, install, operate and maintain the solar power plant to supply Daily Minimum Guaranteed Energy (DMGE) to the beneficiary and beneficiary will make payment for the DMGE at tariff decided through bidding process Plus MePDCL share on monthly bill to MePDCL. In case the Power Producer fails to supply DMGE or power required by the beneficiary, whichever is less, the developer will be liable to pay penalty for the units supplied less than the DMGE at a rate specified in the PPA. The penalty could be up to two times of the rate at which power is supplied by the developer to the beneficiary. Daily Minimum Guaranteed Energy (DMGE) will not be applicable for days having less than 6 (six) hours of sunlight.

vi. **Deployment of Manpower/Equipment**

Successful bidder shall deploy minimum following manpower for smooth operation of all the SPV Power Plant:

SI No	Manpower	No
1	Engineer	1
2	Technician	2
3	Helper	3
4	Guard	-
<b>Total</b>		<b>6</b>

### 3.0 Bid documents:

Tender documents shall comprise of all the documents mentioned in this Bid. In addition to these any other documents/amendments/revisions or instructions issued by MePDCL from time to time to bidders till due date of opening of the offers, shall also be deemed to be integral part of the bid document.

### 4.0 Price:

The bidder shall quote tariff rate as per schedule of items of work. The contract tariff rates shall be firm and binding and shall not be subject to any variation except for statutory variation of taxes and duties during the contractual completion period. **The price shall be inclusive of all taxes & charges and 5 years Comprehensive Maintenance Contract (CMC) as on the opening date of tender.** The price shall also include designing, manufacturing, inspection, supply, transport, insurance, handling etc to fulfillment of **Daily Minimum Guaranteed Energy (DMGE)** requirement of beneficiary. All applicable charges for taking necessary clearance such as commercial tax, road permit etc. wherever required are also deemed to be considered in quoted tariff rate.

### 5.0 Inspection of the factory and Tests:

MePDCL reserves the right to inspect manufacturer's works/factory to ascertain the capability/availability of necessary equipment and infrastructure required for manufacture of the items offered. MePDCL shall have the access and right to inspect

the work or any part thereof at any stage and to test the goods to confirm their conformity to the technical specifications. Successful bidder shall inform MePDCL at least 15 days in advance of schedule dispatch for technical sample audit.

#### **1.1. Payment terms and conditions:**

MePDCL may be authorized to make under this contract, the contractor shall be entitled to payment as follows:

**70% of the Central Financial Assistance (CFA) shall be paid against Design, Supply, Testing of Off-Grid SPV Power Plants in different location in the state of Meghalaya under RESCO Model** in all respects in good conditions of the work as certified by Consignee & MePDCL after submission of following documents:

- Original Commercial invoice raised against the supply & testing of the systems made in triplicate (1+2).
- Copy of duly raised delivery challan / transportation challan / lorry receipt.
- Duly filled **Annexure-12** should be submitted in three sets (one for Consignee record, one for MePDCL).
- Photographs of all the Material with signature & seal of Consignee, Beneficiary and MePDCL Officials.

**30% of the Central Financial Assistance (CFA) shall be paid against Installation & Commissioning of Off-Grid SPV Power Plants in different location in the state of Meghalaya under RESCO Model** in all respects in good conditions of the work as certified by Consignee & MePDCL after submission of following documents:

- Original Commercial invoice raised against the installation & commissioning of the systems made in triplicate (1+2).
- Photographs of all the systems in working conditions with signature & seal of Consignee, Beneficiary and MePDCL Officials.

The payment for the above shall be made subject to availability of the fund from MNRE for the said project subject to the submission of requisite documents.

#### **7.0 Dispatch Instructions:**

All items/equipments shall be subject to Pre-Dispatch Inspection by MePDCL or its authorized representatives at the manufacturing site before their dispatch. The manufacturing site must have sufficient testing facilities. The manufacturer will submit test report with regard conformity to technical specifications and details of materials in

prescribed format for the items to be dispatched to work site of MePDCL. However, equipments will be dispatched from the manufacturing site only after the receipt of "Dispatch Clearance" from MePDCL after acceptance of test report. No consignment shall be dispatched without the receipt of dispatch clearance from MePDCL. Successful bidders have to arrange necessary equipments for testing of materials to be supplied during the pre-dispatch inspection by MePDCL at their manufacturer's unit. Failure to fulfill the Dispatch conditions shall lead to cancellation of work order and forfeiture of Bank Guarantee.

Supply, Installation & Commissioning for the above work must be completed in all respect within **Three (03) Months from the date of issue of the Letter of Allocation (LOA)/Work order.**

#### **8.0 Liquidated Damages for Delay in Completion & CMC:**

If the supplier fails in the due performance of the contract to deliver any part of the equipment or complete the work within the time fixed under the contract or any extension thereof granted to him by MNRE/MePDCL and/or to fulfill his obligations in time under the contract, he shall be liable to pay to MePDCL @0.5% per week maximum up to 10% of work value delayed beyond contract period. The same will be applicable if monthly CMC report will not be submitted within a week of due date.

#### **9.0 Risk & Cost:**

If the contractor fails to complete the awarded work from the scheduled date of completion then MePDCL will be at liberty to cancel/revise the work order and will get the full or part of left over work to be completed by way of engaging alternate contractor and completion of the said work shall be got completed at risk & cost of the failed contractor and failed contractor shall be liable to pay all the dues to MePDCL.

#### **10.0 Insurance:**

The supplier shall arrange for transit and erection insurance of the materials & equipments for setting up of Solar Photovoltaic System. **The supplier shall also arrange for insurance of materials & equipments up to CMC period.** In case of any theft or damage of equipment during CMC period the same will be responsibility of supplier to get it rectify at their own cost.

#### **11.0 Assignment/ Sub-letting:**

The Manufacturer shall not assign or sublet, manufacture, shop testing, packing &

forwarding, transportation, transit insurance, supply in whole or part, and its obligations to any third party to perform under the order/contract. In the event the manufacturer contravenes this condition, MePDCL reserves the right to reject the equipment/work contract and procure the same from elsewhere at manufacturer's risk and cost. The Manufacturer shall be solely liable for any loss or damage which MePDCL may sustain in consequence or arising out of such replacing of the contract work.

**12.0 Completeness of Tender:**

All fittings, assemblies, accessories, hardware items etc. & safety and protection devices as required shall be deemed to have been included in the tender, whether such items are specifically mentioned in the Bill of Material or not.

**13.0 Compliance with Regulations/Guidelines:**

The supplier/contractor shall comply with all applicable laws or ordinances, Guidelines; codes approved standards, rules and regulations along with amendments (if any) and shall procure all necessary permits & licenses etc. at his own cost.

**14.0 Agreement:**

The successful qualified suppliers shall have to enter into an agreement MePDCL, in prescribed format before commencement of supply within 15 (Fifteen) days with required Bank Guarantee.

**15.0 Income Tax:**

Without prejudice to the obligations of the supplier under law, any income tax which MePDCL may be required to deduct by law/statute, shall be deducted at source and shall be paid to income tax authorities on account of the supplier. MePDCL shall provide the supplier a certificate for such deductions of tax.

**1.1. Training Program, After Sales Service and Availability of Spare Parts:**

- 1.2. The responsibility of organizing training program will rest on the successful bidder. The training program will be organized in consultation with MePDCL/Consignee. The training program will focus on operation and maintenance of the system. Printed leaflet/literature should be made available in Hindi by the Supplier regarding the operation and maintenance of their Solar Power Plant.
- 1.3. The Supplier shall depute authorized Service Engineer within 7 days from the date of the intimation of fault and establish sufficient inventory of spares in the State in consultation with MePDCL to provide satisfactory and uninterrupted

services during the warrantee period.

#### **17.0 Force Majeure conditions:**

In the event of either party being rendered unable by force majeure to perform any obligation required to be performed by them under this agreement, relative obligation of the party affected by such force majeure shall be treated as suspended during which force majeure condition last.

The term force majeure shall have herein mean riots (other than among the contractor's employee), civil commotion, war (whether declared or not), invasion, act of foreign enemies hostilities, rebellion, insurrection, military coup to usurp power, act of god such as earthquake, lightening, floods, fires not caused by contractor's negligence and other cause which the contractor has no control and accepted by MePDCL, whose decision shall be final and binding.

If the work is suspended by force majeure conditions lasting for more than 45 days, the purchasers shall have the option of canceling this contract in whole or part thereof, at its discretion. The contractor shall not claim for compensation for force majeure conditions.

#### **18. Cancellation of Work Order:**

MePDCL will be at liberty to terminate/blacklist in part or full the awarded contract and / forfeit Bank Guarantee and/or performance guarantee without prejudicing its rights and affecting the obligations of the Contractor by giving 15 (Fifteen) days' notice in writing in the following events:

- If the contractor/supplier is found defaulter for delayed supply, installation & commissioning or failure to deliver satisfactory performance or supply of substandard materials.
- If the contractor/supplier fails to comply with the provision(s) of the contract including the responsibilities to fulfill the 5 years CMC as per the provisions mentioned.
- If the Contractor/vendor is involved in any action of moral turpitude.
- While taking decisions for blacklisting of the bidder, his past performance shall also be taken into account.

#### **19.0 Jurisdiction of the Court**

All disputes would be settled within Shillong jurisdiction of court of law only.



**SECTION-6**

**NIT No. MePDCL/SE (Project)/Off Grid/T-203 (E)/2020-21/01  
 Technical Specification**

**Dated the 09<sup>th</sup> November, 2020.**

**A. Technical Specification of SOLAR PV Power Plant**

**Detailed Technical Specifications of components:**

**B. Description of the subsystems for replacement.**

**“Design, Supply, Testing, Installation, Commissioning, Operation & maintenance of aggregated 50.0 MWp Off-Grid SPV Power Plants in different locations in the state of Meghalaya under RESCO Model”**

SL.No.	Item description
<b>1.</b>	<b>SCOPE OF WORK</b>
1.1	Design, Supply, Testing, Installation, Commissioning, Operation & maintenance of aggregated 50.0 MWp Off-Grid SPV Power Plants in different locations in the state of Meghalaya under RESCO Model
1.2	Detailed planning of smooth execution of the project
1.3	Testing, Installation & commissioning of the complete system up to AC Distribution Board
1.4	Training of the staff deputed by MePDCL, Shillong as well as Local Operator of the Firm
1.5	Contract for 5 Years including break down maintenance.
	<b>SPECIFICATIONS OF MAJOR COMPONENTS OF THE SYSTEM</b>
<b>1</b>	<p><b>SPV ARRAY:</b>                      The Solar PV Modules shall be of made of Multi Crystalline Silicon Solar Cells and of capacity 250 Wp or above with Solar cells of 60/72 nos. connected in series to give required 250 Wp or above Solar Modules. For the 25 kWp Solar PV Power plant, the SPV Modules shall be of 24 V, 300 Wp or above as per BIS/MNRE standard. The blocking diodes prevent discharge of the Battery Bank at night through the source circuit.</p>

TECHNICAL SPECIFICATION OF SPV MODULE:	
Type	: Multi-Crystalline Silicon Solar Module
Cell size	: +/-156mm x 156mm
Cell Qty.	: 60/72 pcs.
Module size	: +/- 1939mm x 982mm x 42 mm
Junction Box	: Four Terminals with IP65 Protection
Diode	: 15A 15 bypass
Nominal Rating: 24 V, 250W or above under STC	
Vmax	: > 31.0V
Imax	: > 8.0A
Voc	: > 36.00V
Isc	: > 8.5A
FF	: > 70.00%
Efficiency (Module)	: > 14.00%
Power Tolerance	: ± 3%
RFID Tag	: Inside the lamination
PV Module standard: IEC 61215 and IEC 61730-1 & IEC 61730-2	
Weight	: 22.0 kg. (approximate)
<b>RFID Tag:</b> The PV module will have a RF Identification tag (RFID), which will contain the following information. The RFID will be inside the module laminate to withstand harsh environmental condition:	
a) Name of the manufacturer of PV Module	
b) Name of the manufacturer of Solar Cells	
c) Month and year of the manufacture (Solar Cell & Module)	
d) Country of Origin (Solar Cell & Module)	
e) I-V curve for the module	
f) Peak Wattage, Im, Vm and FF for the module	
g) Unique Serial No. & Module No. of the Module	
h) Model or Type Number	
i) Date & year of obtaining IEC PV Module Qualification Certificate	

	j) Name of the Test Lab issuing IEC Certificate
	k) Other relevant information on traceability of the Solar Cell & Modules as per ISO.
	script to be screen printed in indelible ink or paint on the back side of each PV
	<b>Module:</b> Solar Photo Voltaic Program
	<b>Warranty:</b> PV modules used in solar PV 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	<p><b>MODULE MOUNTING STRUCTURE:</b> The mounting structure shall have to be designed by the Contractor after spot verification. The module mounting structures should be made of Aluminum/Hot dip galvanized MS angles of size 50 mm x 50 mm x 6 mm. The thickness of galvanization is 80 microns. All the nuts, bolts are made of good quality Stainless Steel (SS). Space must be provided in between rows for proper maintenance and cleaning. Mounting Structure must be designed to withstand all weights of modules and cleaner and to withstand wind speed of 200km/hr. Anti-theft Nut &amp; Bolts must be used for modules.</p> <p>(i) For 25kW SPV Power Plant at different locations of Meghalaya, the SPV Modules are to be mounted on the eligible roofs. The Modules shall be mounted on square Aluminium Rods above the Aluminium Rails. The Aluminium Rails should be bolted to the Steel structure of the building.</p> <p><b>TECHNICAL SPECIFICATION OF MODULE MOUNTING STRUCTURE</b></p> <p><b>Type:</b> Hot deep galvanized minimum 80 microns</p> <p><b>Material</b> : MS Angle / Channel</p> <p><b>Angle Size</b> : 50mm. x 50 mm. x 6 mm.</p> <p><b>Tilt angle</b> : At least 22degree to horizontal as per suitable.</p> <p><b>Nut &amp; Bolt</b> : All stainless-steel Nuts and Bolts (Anti-theft) &amp; washer of good quality MS or SS.</p> <p><b>Specification:</b> As per BIS</p>

3	<p><b>ARRAY SUB JUNCTION BOX &amp; MAIN JUNCTION BOX:</b></p> <p>The Array Junction boxes shall be dust, vermin and waterproof and made of FRP / powder coated Aluminium with full dust / ABS / Thermo Plastic. The Junction Boxes confirms to IP 65 standard and IEC 62208. Junction Boxes have hinged door with EPDM rubber gasket to prevent water entry. The terminals shall be connected to Copper bus bar arrangement of proper size. The junction boxes shall have suitable cable entry points fitted with cable glands of appropriate sizes for both incoming and outgoing cables. All the wire/cables must be terminated through cable lugs. The Junction Boxes shall be such that input &amp; output termination can be made through suitable cable gland. Suitable marking shall be provided on the bus bar for easy identification and cable ferrules shall be fitted at the cable termination points for identification. Each JBs have suitable earthing provision. It will be placed at 5 feet height or above as per site requirement for easy accessibility. Each Junction Box shall have suitable arrangement monitoring and disconnection for each of the groups.</p>																																
4	<p><b>DC DISTRIBUTION BOARD:</b></p> <p>The DCBD shall be provided in between Solar Array and Power Conditioning Unit. It consists of MCCB of suitable ratings for connection and disconnection of array input and also Volt meters, Ammeters &amp; Charging Discharging Amp Hour Meters. It has LED indication for ON and OFF status as per requirement.</p>																																
	<table border="1"> <thead> <tr> <th colspan="2">TECHNICAL SPECIFICATION OF DCDB:</th></tr> </thead> <tbody> <tr> <td>Enclosure material</td><td>: Sheet Steel Epoxy Powder coated</td></tr> <tr> <td>Mounted type</td><td>: Wall mounting type</td></tr> <tr> <td>Cable entry</td><td>: Bottom</td></tr> <tr> <td>No. of glands with cable size</td><td>: 6 nos. for 95 sq. mm cable size</td></tr> <tr> <td>MCCB</td><td>: 2 nos., 200 A</td></tr> <tr> <td>DC Am-meter</td><td>: 1 Nos. (0 to 150 A) for measuring Solar display</td></tr> <tr> <td>DC Am-meter</td><td>: 1 no. (-150 to 0 &amp; 0 to +150 A) for measuring</td></tr> <tr> <td></td><td>Battery Charge &amp; discharge display</td></tr> <tr> <td>DC Volt-meter</td><td>: 2 no. (0 to 400 V DC) for SPV &amp; Battery</td></tr> <tr> <td>DC Ampere Hour Meter</td><td>: 1 no.</td></tr> <tr> <td>Earthing terminal size</td><td>: M75</td></tr> <tr> <td>Accessories</td><td>: as per requirement</td></tr> <tr> <th colspan="2">TECHNICAL SPECIFICATION OF BATTERY ISOLATION DEVICE</th></tr> <tr> <td>Fuse</td><td>: 1 no., 200 A 500 V DC HRC Fuse with DC</td></tr> <tr> <td>Insulator</td><td>insulator</td></tr> </tbody> </table>	TECHNICAL SPECIFICATION OF DCDB:		Enclosure material	: Sheet Steel Epoxy Powder coated	Mounted type	: Wall mounting type	Cable entry	: Bottom	No. of glands with cable size	: 6 nos. for 95 sq. mm cable size	MCCB	: 2 nos., 200 A	DC Am-meter	: 1 Nos. (0 to 150 A) for measuring Solar display	DC Am-meter	: 1 no. (-150 to 0 & 0 to +150 A) for measuring		Battery Charge & discharge display	DC Volt-meter	: 2 no. (0 to 400 V DC) for SPV & Battery	DC Ampere Hour Meter	: 1 no.	Earthing terminal size	: M75	Accessories	: as per requirement	TECHNICAL SPECIFICATION OF BATTERY ISOLATION DEVICE		Fuse	: 1 no., 200 A 500 V DC HRC Fuse with DC	Insulator	insulator
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	Fuse Holder	: 1 no., 200 A 500 V DC						
	Link Copper rating	: 200 A (-)						
5	<p><b>POWER CONDITIONING UNIT (PCU):</b> As SPV array produces direct current (DC), it is necessary to convert this to alternating current (AC) and adjust the voltage levels before powering equipment designed for nominal mains AC supply. Conversion shall be achieved using an electronic inverter and the associated control and protection devices. All these components of the system are termed the Power Conditioning Unit or simply the PCU. In addition, the PCU shall also house MPPT (Maximum Power Point Tracker), to maximize Solar PV array energy input into the system. PCU refers to combination of Charge controller and inverter and shall be supplied as integrated unit or different units of charge controller and inverter depending on rating &amp; size of the power plant. The PCU should be a Hybrid type which can be able to export energy to Grid interface.</p> <p><b>MAXIMUM POWER POINT TRACKER (MPPT):</b> Maximum Power Point Tracker (MPPT) shall be integrated into the PCU/Inverter to maximize energy drawn from the SPV array. The MPPT should be Microprocessor/ Microcontroller based to minimize power losses.</p> <p><b>CHARGE CONTROLLER (MPPT /PWM):</b> DC electricity from the array is used to feed inverter as well as charge the battery bank for nighttime use. The total energy received from the array being dependent upon the availability of sunshine during the day which in turn varies from season to season; there may be occasions when the Power Plant generate surplus energy and could be exported to Grid. Similarly, in monsoon season, prolonged overcast sky could cause Battery Bank getting drained beyond the maximum allowed depth of discharge (DOD). To guard against battery overcharge or deep discharge, the charge controller is incorporated.</p> <p><b>OFF Grid/Hybrid INVERTER:</b> PCU/Inverter should be a OFF Grid/Hybrid type based on PWM technology. The DSP controller is used for controlling the whole unit in quick time. Input voltage range being 300- 800V DC it is ideally suitable for 52 kWh (6 hrs back up) Lithium Ion battery operation. Rating of the inverter is 25kVA, 240V DC/415 (±3%) V AC, 3 phase, 50 (±5%) Hz, sine wave inverter with inbuilt PWM / MPPT Charge controller of rated 240-415 V DC with the output power of 25 kW. The output voltage wave is good quality sine wave.</p>							
	<p><b>TECHNICAL SPECIFICATION OF THE INVERTER 25 kVA OFF Grid INVERTER:</b></p> <p><b>Solar Charge Controller:</b></p> <table><tr><td>1.</td><td>Charge Controller Type</td><td>MPPT</td></tr><tr><td>2.</td><td>PV Nominal Capacity (Total)</td><td>25 kW</td></tr></table>		1.	Charge Controller Type	MPPT	2.	PV Nominal Capacity (Total)	25 kW
1.	Charge Controller Type	MPPT						
2.	PV Nominal Capacity (Total)	25 kW						

	3.	No of MPPT Channels	1
	4.	Per Channel PV Capacity (Nominal/ Peak)	25/26.75
	5.	Max. Open Circuit PV Volts (Voc)	620V
	6.	MPPT Voltage Range	330-515V
	7.	PV Minimum Voltage	264V
	<b>Solar Inverter</b>		
	1.	No of Phases/Connection Type	3-Phase/4 wire
	2.	Nominal Battery Voltage	240V
	3.	Nominal Output Voltage/ Frequency	415V/50Hz
	4.	*Nominal Capacity (Total/ Per Phase)	20KVA/6.78kVA
	5.	**Output Amps per Phase	28 Amps
	6.	Voltage Regulation (in Standalone Mode)	+/- 2%
	7.	Freq. Regulation (in Standalone Mode)	+/- 0.5 Hz
	8.	THD	Less than 5%
	9.	Load Power Factor	0.8 lag to unity
	10.	Efficiency: Peak/ 100% Load/ 20% Load	>88%/ >85%/ >80%
	11.	***Overload: 60 sec/ 30 sec/ 5 sec	110%/ 125%/ 150%
	12.	Max Allowed Phase Imbalance	30%
	13.	****Auto Bypass Feature	Provided
	14.	Parallel Operation with Grid/ DG	Provided
	15.	Power Export to Grid Facility	Provided
	16.	Anti-Islanding from Grid	Provided
	<p><i>Note: * and ** - valid at 0.8 power factor.</i></p> <p><i>***- Overload protection at load end is applicable only in Standalone mode.</i></p> <p><i>**** - Auto Bypass does not ensure complete bypass of the grid supply t loads.</i></p>		

	<p><b>Protections:</b></p> <ol style="list-style-type: none"> <li><b>1. PV Side:</b> Reverse Polarity, Surge Protection (Class D)</li> <li><b>2. Battery Side:</b> Reverse Polarity, Over/ Under Voltage, Current Limit</li> <li><b>3. Grid Side:</b> Over/ under Voltage, Over/ Under Frequency, Surge Protection (Class D)</li> <li><b>4. Load Side:</b> Overloads, Short circuit</li> <li><b>5. System Protection:</b> Over Temperature</li> <li><b>6. Degree:</b> IP-21</li> </ol>
<b>6</b>	<p><b>DATA LOGGER/REMOTE MONITORING SYSTEM:</b></p> <p>Part of the inverter or a separate Data logging system shall also be an integrated unit. All the relevant information will be stored in a data logger. The inverter should be equipped with a Modem with a facility of incorporating a GSM Mobile SIM to access Internet through GSM Network for Remote Monitoring system. The expenditure of using the Mobile SIM shall be borne by the bidder/contractor during the MPWC period of 5 years. Data logging system shall record the performance of the Plant in an interval of every 6 hours. The software for Remote Monitoring system shall be installed in PC/laptop of MePDCL and beneficiary organizations. The hard copy/printout of the daily performance data of the Plant for every quarter (3 months) shall be submitted to MePDCL quarterly during the MPWC period.</p>
<b>7</b>	<p><b>BATTERY BANK:</b></p> <p><b>TECHNICAL SPECIFICATION OF BATTERY</b></p> <p><b>Battery Type:</b> Li-ion Battery</p> <p><b>Storage Capacity</b> : 6 Hr, 240 V, 52 kWh Lithium Ion Battery (LFP) with 10/15 years of warranty</p> <p><b>Cell Voltage (cell)</b> : 2 Volt/ 3.2 V for LFP</p> <p><b>Container</b> : MS with carrying handle.</p> <p><b>Cover</b> : Protective cover of MS</p> <p><b>Efficiency</b> : Amp hour <math>\geq 90\%</math> and Watt hour <math>\geq 75\%</math></p> <p><b>Max. Depth of Discharge:</b> 80%</p> <p><b>Self-Discharge:</b> Lower than 3% per Month</p> <p><b>Cell cut off voltage</b> : 1.85 V / 2.85 V in LFP/ cell.</p> <p><b>Standard</b> : IS 1651/ISO 9001 &amp; ISO 14001.</p> <p><b>Accessories</b> : Each Battery Bank will contain suitable metal or wooden rack, hydrometer, thermometer, cell connector and connecting leads etc.</p> <p><b>Design Cycle</b> : 6000 Cycles in LFP</p> <p><b>Charge Efficiency:</b> Shall be more than 90% up to 70% state of charge.</p> <p><b>Rack:</b> Metal or Wooden of suitable size and adequately strong Battery Rack should be supplied with each Battery Bank with a minimum performance life span of 5 years.</p>

8	<p>Sheet metal enclosure with powder coating painting having AC MCB / MCCB. ACDB also have LED Indicator. One Electronic Energy Meter, ISI make, Three Phase, of good quality shall be installed in ACDB suitably placed to measure the consumption of power from SPV Power Plant.</p> <p><b>TECHNICAL SPECIFICATION OF ACDB</b></p> <p>Enclosure material : Sheet Steel Epoxy Powder coated Mounted type  type : Wall mounting type  Earthing terminal size : M20  Cable entry : Bottom  No. of glands with cable size: 6 nos. for 95 sq. mm.  Accessories : per requirement  MCB/ MCCB: MCB/MCCB for connection &amp; disconnection of PCU from load  MCB : MCB for power supply to control room &amp; Battery room loads  Feeder : Output to control panel through MCB</p>
9	<p><b>CABLES:</b>  Cables from Control Room of the Plant to the Main Distribution Box (DB) of each Beneficiary Institution and also from main DB to Control Room for Grid Charging should be taken overhead with suitable supports to prevent sagging or underground as per the convenience considering the safety point of view for both the Plant &amp; People.</p> <p>Type : PVC insulated and sheathed  Materials : All DC Cables shall be of Copper &amp; AC Cables of Aluminium. AC Cables shall be of XLPE insulation  Working voltage : Up to 1100 V State  voltage : 650 V/1.1 KV  Color : To suit Red, Black, Blue  Temperature : -15 deg. C to + 70 deg. C  Standard : IS 1554 part -1/ 694-1990 &amp; IS 7098 Cable  Size &amp; Schedule: 95 sq.mm.</p>
10.	<p><b>PROTECTIONS:</b> As the inverter is Off Grid Inverter, Therefore, all necessary protections should be provided like Lightning and Earthing as follows:</p>
a	<p><b>LIGHTNING AND OVER VOLTAGE PROTECTION SYSTEM:</b>  The SPV Power Plant is provided with lightning and over voltage protection connected with proper earth pits. The lightning conductor should be made of 20-25mm diameter, 3000-3500mm. long GI spike as per provisions of IS. The lightning conductor should be grounded through 25mm. X 5mm. thick GI strip with earth pit. Required no. of suitable lightning arrestors shall be installed in array field.</p>



b	<p><b>EARTHING SYSTEM:</b></p> <p>Each array structure of the PV yard should be grounded properly. In addition, the lightning arrestor should also be provided inside the array field. Provision should be kept for shorting and grounding of the PV array at time of maintenance work. All metal casing/ shielding of the plant should be thoroughly grounded in accordance with IEC acts/ IE Rules. PCU, ACDB &amp; DCDB will be earthed properly.</p> <p>Earthing for array &amp; distribution systems &amp; power plant equipments are made with GI pipe 2000-3000 mm. long 25-30 mm. diameter including accessories &amp; using charcoal and salt as per IS 3043. The array structure is grounded to earth pit through 25mm X 5mm. GI strip. Earthing Resistance should be not more than 2.5 ohms.</p>
d	<p><b>SURGE PROTECTION:</b></p> <p>Internal surge protection shall consist of three MOV type surge-arrestors connected from +ve and -ve terminals to earth (via Y arrangement)</p>
11.	<p><b>ENERGY METERS:</b> As the inverter may be a Hybrid Inverter, the system may export excess energy to the Grid interface therefore, Energy Meter such as Net Meter/Gross Meter (as per the decision of MePDCL) with all accessories (as per requirement) should also be provided additional with the system.</p>
13.	<p><b>SPECIFICATION OF CHANGE OVER SWITCH:</b></p> <p>A separate change over switch of 3Ø, 415 V of suitable ampere rating for 25kW load should be installed outside ACDB to isolate the existing connected load from the SPV system and cater the power to the existing load from conventional/ grid line, in case of emergency.</p>
14.	<p><b>SPECIFICATION OF DANGER PLATES:</b></p> <p>Danger plate to be installed wherever require as per Indian IE rule. The Danger plate should be vitreous enameled white on both sides, and with inscription in signal red colour on front side as required. The inscription should be in English.</p> <p><b>The details specifications are as follows: -</b></p> <ol style="list-style-type: none"> <li>1. Size : 200 mm X 150 mm X 2 mm.</li> <li>2. Material : M.S</li> </ol>
15.	<p><b>SPECIFICATION OF WIRING MATERIALS:</b></p> <p>Control room wiring to be done by casing capping type 2C x 2.5 Sq. mm PVC insulated 1.1 KV grade Cu wire.</p>

16	<p><b>DOCUMENTS:</b></p> <p>An operation, instruction, maintenance manual in English should be provided with the Solar Power Plant. The following minimum details must be provided in the manual:</p> <ul style="list-style-type: none"> <li>(i) About Photovoltaic</li> <li>(ii) About Solar Power Plant – its components and expected performance</li> <li>(iii) About PV Module. In case of imported modules, it is mandatory to provide a copy of the international product qualification certificate to the test Centre</li> <li>(iv) About PCU/Inverter. The make, model number and technical characteristics of PCU/Inverter should be stated in the product data sheet and furnished to the test centers</li> <li>(v) About Battery and electronics used</li> <li>(vi) Clear instructions about Mounting of PV Module(s)</li> <li>(vii) About electronics</li> <li>(viii.) about Charging and Significance of Indicators.</li> <li>(ix) DO's and DON'Ts</li> <li>(x) Clear instructions on operation, Regular Maintenance and Trouble Shooting of SPP</li> <li>(xi) Name and address of the person or service center to be contacted in case of failure or complaint.</li> </ul>
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#### **Spare parts**

Bidder should keep stock of essential spares (Control cards, PCB's, Switches fuses, SPV Panels and other necessary equipments required for SPV Power Plants etc.) at their nearest service center and/or at each site at their cost for 5 years maintenance. A recommended list of such spares should be provided by bidder.

#### **Installation and commissioning**

- Detailed project execution plan should be submitted along with the offer.
- The bidder should quote for installation and commissioning.
- The bidder is responsible for arranging all the accessories and measuring instruments required to properly commission the system.

## Annexure-1

**Meghalaya Power Distribution Corporation Limited,**  
'Lumjingshai', Short Round Road, Shillong, Meghalaya – 793001  
E-mail: [seprojects.mepdcl@gmail.com](mailto:seprojects.mepdcl@gmail.com)  
Website: [www.meecl.nic.in](http://www.meecl.nic.in)

### Format for Covering Letter

**NIT No. MePDCL/SE (Project)/Off Grid/T-203 (E)/2020-21/01** **Dated the 09<sup>th</sup> November, 2020.**  
***(To be submitted and uploaded in the official letterhead of the company)***

To,

**Superintending Engineer (Projects),**

Meghalaya Power Distribution Corporation Limited (MePDCL),  
'Lumjingshai', Short Round Road, Shillong, Meghalaya – 793001  
E-mail: [seprojects.mepdcl@gmail.com](mailto:seprojects.mepdcl@gmail.com)  
Website: [www.meecl.nic.in](http://www.meecl.nic.in)

**Subject: Design, Supply, Testing, Installation, Commissioning, Operation & maintenance of aggregated 50.0 MWp Off-Grid SPV Power Plants in different location in the state of Meghalaya under RESCO Model**

Dear Sir,

1. We, the undersigned.....[insert name of the 'Bidder'].....having read, examined and understood in detail the RFS Document for Implementation of Off-grid Solar PV System Scheme hereby submit our Bid comprising of Price Bid and Techno Commercial Bid. We confirm that neither we nor any of our Parent Company / Affiliate/Ultimate Parent Company has submitted Bid other than this Bid directly or indirectly in response to the aforesaid RFS.
2. We give our unconditional acceptance to the RFS, dated.....and RFS Documents attached thereto, issued by MePDCL, as amended. As a token of our acceptance to the RFS Documents, the same have been initialed by us and enclosed to the Bid. We shall ensure that we execute such RFS Documents as per the provisions of the RFS and provisions of such RFS Documents shall be binding on us.
3. **Bid Capacity:** We have bid for the capacity of..... [*insert the capacity in kWp*]....for as per RFS terms and conditions.
4. **Ernst Money Deposit (EMD):** We have enclosed a EMD of Rs.....(Insert Amount), in the form of DD/Bank Guarantee no.....(Insert number of the bank guarantee) dated.....[Insert date of bank guarantee] as per Format .....from .....(Insert name of bank providing Bid Bond) and valid up to .....in terms of Clause .....of this RFS.
5. We have submitted our Price Bid strictly as the terms and conditions of this RFS, without any deviations, conditions and without mentioning any assumptions or notes for the Price Bid in the said format(s).

6. In case we are a Empanelled Vendor, we shall furnish a declaration at the time of commissioning of the Project to the affect that neither we have availed nor we shall avail in future any payment other than received from MePDCL for implementation of the project.

**7. Acceptance:**

We hereby unconditionally and irrevocably agree and accept that the decision made by MePDCL in respect of any matter regarding or arising out of the RFS shall be binding on us. We hereby expressly waive any and all claims in respect of Bid process.

We confirm that there are no litigations or disputes against us, which materially affect our ability to fulfill our obligations with regard to execution of projects of capacity offered by us.

**8. Familiarity with Relevant Indian Laws & Regulations:**

We confirm that we have studied the provisions of the relevant Indian laws and regulations as required to enable us to submit this Bid and execute the RFS Documents, in the event of our selection as Successful Bidder. We further undertake and agree that all such factors as mentioned in RFS have been fully examined and considered while submitting the Bid.

**9. Contact Person:**

Details of the contact person are furnished as under:

Name	:	.....
Address	:	.....
Phone Nos.	:	.....
Fax No.	:	.....
E-Mail	:	.....

It is confirmed that our Bid is consistent with all the requirements of submission as stated in the RFS and subsequent communications from MePDCL. The information submitted in our Bid is complete, strictly as per the requirements stipulated in the RFS and is correct to the best of our knowledge and understanding. We would be solely responsible for any errors or omissions in our Bid. We confirm that all the terms and conditions of our Bid are valid for acceptance for a period of 12 month from the Bid deadline. We confirm that we have not taken any deviation so as to be deemed non-responsive.

**Dated the ..... day of ..... , 2020**

Yours faithfully,

**Signature:**

**Name:**

**Designation with Seal**

**Annexure-2**

**Information of the Bidder**

**NIT No. MePDCL/SE (Project)/Off Grid/T-203 (E)/2020-21/01**

**Dated the 09<sup>th</sup> November, 2020.**

(To be submitted in the official letter head of the company)

SL. No.	Particulars	
1.	Name of the Bidder	
2.	Address of Bidder with Telephone, Fax, email	
3.	Address of the Registered Office	
4.	Address of the works	
5.	GPS Co-ordinate of Registered Office	
6.	GPS Co-ordinate of Factory Campus	
7.	Name & Designation of Authorized Signatory for Correspondence (Attach Power of Attorney as per <b>Annexure-6</b> )	
8.	Nature of Firm (Proprietorship/ Partnership / Pvt. Ltd./ Public Ltd. Co./ Public Sector)	
9.	Permanent Account Number (PAN) (Attach proof)	
10.	Firm's Registration Number (Attach proof)	
11.	GST Number (Attach proof)	
12.	Details of in-house testing facility (Attach Proof)	
13.	Office/ Dealer and Service network in Meghalaya (Give details)	
14.	Particulars of Earnest Money and Bid fee	
15.	Place where Materials will be Manufactured	
16.	Place where Materials will be Available for Inspection	
17.	Other details and remarks, if any	

Yours faithfully,

(Signature of Authorized  
Signatory)

Name :  
Designation :  
Company seal :

(Separate sheet may be used for giving detailed information duly signed)

**Annexure-3**

**Declaration by the Bidder**

**NIT No. MePDCL/SE (Project)/Off Grid/T-203 (E)/2020-21/01**

**Dated the 09<sup>th</sup> November, 2020.**

**(To be submitted in the official letter head of the company)**

I/We \_\_\_\_\_ (here in after referred to as the Bidder) being desirous of tendering for the rate contract for work under the above-mentioned tender and having fully understood the nature of the work and having carefully noted all the terms and conditions, specifications etc. as mentioned in the tender document, DO HEREBY DECLARE THAT

1. The Bidder is fully aware of all the requirements of the tender document and agrees with all provisions of the tender document.
2. The Bidder is capable of executing and completing the work as required in the tender.
3. The Bidder accepts all risks and responsibilities directly or indirectly connected with the performance of the tender.
4. The Bidder has no collusion with any employee of MePDCL or with any other person or firm in the preparation of the bid.
5. The Bidder has not been influenced by any statement or promises of MePDCL or any of its employees, but only by the tender document.
6. The Bidder is financially solvent and sound to execute the work.
7. The Bidder is sufficiently experienced and competent to perform the contract to the satisfaction of MEPDCL.
8. The information and the statements submitted with the tender are true.
9. The Bidder is familiar with all general and special laws, acts, ordinances, rules and regulations of the Municipal, District, State and Central Government that may affect the work, its performance or personnel employed therein.
10. The Bidder has not been debarred/blacklisted by any SNA/ Government Dept. /PSU.
11. This offer shall remain valid for Six months from the date of opening of the tender.
12. The Bidder gives the assurance to execute the tendered work as per specifications terms and conditions.
13. The Bidder confirms the capability to supply and install required no. of systems per month.
14. The Bidder accepts that the earnest money be absolutely forfeited by MePDCL if the Bidder fails to undertake the work or sign the contract within the stipulated period.

(Signature of Authorized

Signatory) Name:

Designation:

Company

Seal:

#### Annexure-4

#### Format for Financial Requirement – Annual Turnover

[On the letterhead of Bidding Company]

To,

**Superintending Engineer (Projects),**

Meghalaya Power Distribution Corporation Limited (MePDCL),

'Lumjingshai', Short Round Road, Shillong, Meghalaya – 793001

E-mail: [seprojects.mepdcl@gmail.com](mailto:seprojects.mepdcl@gmail.com)

Website: [www.meecl.nic.in](http://www.meecl.nic.in)

Dear Sir,

**Subject:** Design, Supply, Testing, Installation, Commissioning, Operation & maintenance of aggregated 50.0 MWp Off-Grid SPV Power Plants in different location in the state of Meghalaya under RESCO Model

We certify that the Bidding Company had an average Annual Turnover of Rs. ----- -- based on audited annual accounts of the last three years ending 31.03.2020.

Sl No	Financial Year	Turnover (in Rupees)
1	2017-18	
2	2018-19	
3	2019-20	
	<b>Average Annual Turnover</b>	

**UID No.:** .....

*Authorized Signatory*

*(Power of Attorney holder)*

*Statutory Auditor*

*(Stamp & Signature)*

Date:

Place:

Annexure-5

**Format for Financial Requirement - Net Worth Certificate**

**NIT No. MePDCL/SE (Project)/Off Grid/T-203 (E)/2020-21/01**

**Dated the 09<sup>th</sup> November, 2020.**

[On the letterhead of Bidding Company]

To,

**Superintending Engineer (Projects),**

Meghalaya Power Distribution Corporation Limited (MePDCL),

'Lumjingshai', Short Round Road, Shillong, Meghalaya – 793001

E-mail: [seprojects.mepdcl@gmail.com](mailto:seprojects.mepdcl@gmail.com)

Website: [www.meecl.nic.in](http://www.meecl.nic.in)

Dear Sir,

**Subject: Design, Supply, Testing, Installation & Commissioning of aggregated 50.0 MWp Off-Grid SPV Power Plants in different location in the state of Meghalaya under RESCO Model**

This is to certify that Net worth of \_\_\_\_\_ {insert the name of Bidding Company}, as on 31st March 2020 is Rs \_\_\_\_\_. The details are appended below.

Particulars	Amount (In Rs.)
Equity Share Capital	
Add: Reserves	
Subtract: Revaluation Reserve	
Subtract: Intangible Assets	
Subtract: Miscellaneous Expenditure to the extent not written off and carried forward losses	
Net Worth as on 31 <sup>st</sup> March 2020	

**UID No.: .....**

*Authorised Signatory*

*(Power of Attorney holder)*

*Statutory Auditor*

*(Stamp & Signature)*



Annexure -6

**Format of Power of Attorney for Signing Bid**

NIT No. MePDCL/SE (Project)/Off Grid/T-203 (E)/2020-21/01

Dated the 09<sup>th</sup> November, 2020.

**POWER OF ATTORNEY**

*(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution.)*

Know all men by these presents, we.....(name and address of the registered office) do hereby constitute, appoint and authorize Mr. / Ms..... (name and residential address) who is presently employed with us and holding the position of.....

as our attorney, to do in our name and on our behalf, all such acts, deeds and things necessary in connection with or incidental to our bid for all tenders notified by Meghalaya New and Renewable Energy Development Agency during 2019-20, including signing and submission of all documents and providing information / Bids to Meghalaya New and Renewable Energy Development Agency, representing us in all matters before [Insert Name], and generally dealing with Meghalaya New and Renewable Energy Development Agency in all matters in connection with our bid for the said Project.

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

For

\_\_\_\_\_

Signature Accepted by

..... (Signature)

(Name, Title and Address of the Attorney)

***Note: The mode of execution of the Power of Attorney should be in accordance with the procedure, if any, lay down by the applicable law and the charter documents of the executants (s) and when it is so required the same should be under common seal affixed in accordance with the required procedure.***

**Annexure-7**

**Details of Orders Received and Executed in Last Three (03) Years**

**NIT No. MePDCL/SE (Project)/Off Grid/T-203 (E)/2020-21/01**

**Dated the 09<sup>th</sup> November, 2020.**

**Details of Orders Received & Executed by the Manufacturer/Supplier for Supply of SPV Power Plant to SNA/ Govt. Organization during Last Seven Years.**

SL. No.	Name of Agency/ Organization	Purchase Order No. Date & Ordered Qty.	Capacity of SPV Power Plant	Delivery Schedule	Qty. Supplied Within Delivery Schedule	Qty. Supplied After Delivery Schedule	Date of Full Supply

Yours faithfully,

(Signature of Authorized Signatory)

Name:

Designation:

Company

Seal:

**Note:**

- (a) Attach Photocopies of Work Orders
- (b) Attach Photocopies of Certificate of Satisfactory Performance Issued by Concerned Nodal Agency/PSU/ Govt. Organization
- (c) Separate sheet may be used for giving detailed information in seriatim duly signed. This bid Performa must be submitted duly signed in case separate sheet is submitted

**Annexure-8**

**Format for Technical Details**

**NIT No. MePDCL/SE (Project)/Off Grid/T-203 (E)/2020-21/01**

**Dated the 09<sup>th</sup> November, 2020.**

To,  
**Superintending Engineer (Projects),**  
Meghalaya Power Distribution Corporation Limited (MePDCL),  
'Lumjingshai', Short Round Road, Shillong, Meghalaya - 793001  
E-mail: [seprojects.mepdcl@gmail.com](mailto:seprojects.mepdcl@gmail.com)  
Website: [www.meecl.nic.in](http://www.meecl.nic.in)

Dear Sir,

**Subject: Design, Supply, Testing, Installation, Commissioning, Operation & maintenance of aggregated 50.0 MWp Off-Grid SPV Power Plants in different location in the state of Meghalaya under RESCO Model**

S. N	Particulars	Details	Make
1	Make of Battery and Origin		
2	Type of Battery		
3	No. of Battery		
4	Each Battery Voltage		
5	Each Battery Ah		
6	Battery Bank rating (Voltage & Ah)		

**Undertaking**

- We agree to supply, installation & commissioning, renovation, the Power Plant as per NIT specifications.
- We agree to give performance guarantee as specified and to abide by the scope of the guarantee as prescribed under the tender document.
- We agree to operate as per the terms & conditions of the tender.

We undertake to supply quality products for promoting energy efficiency in the era of lighting systems.

**(Signature of Authorized Signatory with Name Designation  
& Company Seal)**

**Filling Instructions:**

- During the Guarantee period, MePDCL reserves the right to cross check the performance of the systems for their minimum performance levels specified in the MNRE specifications.

**Annexure-9**

**Technical Detail Form**

**NIT No. MePDCL/SE (Project)/Off Grid/T-203 (E)/2020-21/01**

**Dated the 09<sup>th</sup> November, 2020.**

**(To be submitted in the official letter head of the company)**

**Warranty Card**

1.	Name & Address of the Manufacturer/ Supplier of the System	
2.	Name & Address of the Purchasing Agency	
3.	Date of Supply of the System	
4.	Details of Battery	
	(a) Name of the Manufacturer	
	(b) Make	
	(c) Model	
	(d) Batch/Serial No(s).	
	(e) Month & Year of Manufacture	
	(f) Rated V & AH Capacity at C/20 or C/10 Rated at 27 <sup>0</sup> C	
	(g) Guarantee Valid Up To	
5.	Designation & Address of the Person to be Contacted for Claiming Warranty Obligations	

**(Signature of Authorized Signatory with Name Designation &  
Company Seal)**

**Filling Instructions:**

1. The Guarantee card to be supplied with the system must contain the details of the system supplied as per format given above.
2. During the Guarantee period MePDCL reserve the right to cross check the performance of the systems for their minimum performance levels specified in the MNRE specifications.

**Annexure-10**

**Price Bid Format**

**NIT No. MePDCL/SE (Project)/Off Grid/T-203 (E)/2020-21/01**  
**(To be submitted Online)**

**Dated the 09<sup>th</sup> November, 2020.**

**Subject:** Design, Supply, Testing, Installation, Commissioning, Operation & maintenance of aggregated 50.0 MWp Off-Grid SPV Power Plants in different location in the state of Meghalaya under RESCO Model

S. No (a)	Name of Work (b)	Capacity in KWp (c)	Total Tariff (in INR) (up to 2 decimals) (f) {f=c*d+e}
1	Design, Supply, Testing, Installation, Commissioning, Operation & maintenance of aggregated 50.0 MWp Off-Grid SPV Power Plants in different location in the state of Meghalaya under RESCO Model	25	
<b>Total</b>			
<b>Amount in Rupees</b>			

- Above quoted price for are complete in all respect as per Technical Specifications inclusive of all Central/State/Local applicable taxes & duties, packing, forwarding, transit insurance, loading & unloading, transportation & other charges etc. for destination in Meghalaya and inclusive of installation, testing, commissioning, operation & maintenance for five years, performance testing and training.
- Certified that rates quoted for above mentioned all components are as per specifications, terms & conditions mentioned in the bid document.
- Price should be quoted in complete numeric figure and words.

**(Signature of Authorized Signatory)**

Name: Designation:

Company Seal:

**Annexure-11**

**Format for Submitting Bank Guarantee**

**NIT No. MePDCL/SE (Project)/Off Grid/T-203 (E)/2020-21/01                      Dated the 09<sup>th</sup> November, 2020.**  
***(To be submitted in Rs. 100/- Non-Judicial Stamp Paper to be purchased in the name of the issuing bank)***

To,

Superintending Engineer (Projects)  
Meghalaya Power Distribution Corporation Limited (MePDCL),  
'Lumjingshai', Short Round Road, Shillong, Meghalaya - 793001  
E-mail: seprojects.mepdcl@gmail.com  
Website: www.meecl.nic.in

WHEREAS.....(Supplier's name) (hereinafter referred to as "Supplier"), a company registered under the Companies Act, 1956 and having its registered office at..... is required to deposit with you, the Purchaser, by way of Earnest Money Rs..... (Rupees .....only) in connection with its tender for the work with reference to Notice Inviting Tender (NIT) No. .... dated ..... as per specification and terms and conditions enclosed therein.

WHEREAS the Supplier as per "Notice Inviting Bid, point no. 3 Earnest Money" has agreed to establish a Bank Guarantee in Your favour through us valid up to (date) instead of deposit of earnest money in cash.

WHEREAS you have agreed to accept a Bank Guarantee from us in..... instead of earnest money in cash from the Supplier.

1. We, ..... (Bank) hereby agree and undertake to pay you on demand the said amount of Rs.(Rupees..... only) without any protest or demur in the event the Supplier/Tenderer after submission of his tender, resiles from or withdraws his offer or modifies the terms and conditions thereof in a manner not acceptable to you or expresses his unwillingness to accept the order placed and/or letter of intent issued on the Supplier/Tenderer for the work under "**Notice Inviting Tender Ref. No.:** .....".
2. Your decision as to whether the Supplier/Tenderer has released from or has withdrawn his offer or has modified the terms and conditions thereof in a manner not acceptable to you or has expressed his unwillingness to accept the order placed and/or Letter of Intent issued by you on the Supplier/Tenderer for the work under "**Notice Inviting Tender Ref. No.:** ..." in this regard, shall be final and binding on us and we shall not be entitled to question the same.

3. Notwithstanding anything contained in the foregoing, our liability under this Guarantee shall be restricted to Rs. .... (Rupees\_\_\_\_\_ only).
4. This Guarantee shall remain valid and in full force and effect up to ..... (Date) and shall expire thereafter unless an intimation is given to the Bank by you earlier in writing discharging us from our obligation under this Guarantee.
5. We shall not revoke this Guarantee during its currency except by your consent in writing.
6. This Guarantee shall not be affected by any change in the constitution of the Supplier/Tenderer or yourselves or ourselves but shall ensure to your benefit and be enforceable against our legal successors or assignees by you or your legal successors.
7. Notwithstanding anything contained herein above unless a demand or claim under this Guarantee is made on us in writing within six months from the date of expiry of this Guarantee we shall be discharged from all liabilities under this Guarantee thereafter.
8. We have power to issue this Guarantee under our Memorandum and Articles of Association and the undersigned who is executing this Guarantee has the necessary power to do so under a duly executed Power of Attorney granted to him by the Bank.

Signed and Delivered For and on behalf of Bank.

(Banker's Name)

Name of Bank Manager: .....

Address .....

.....

---

**Annexure-12**

**Certificate of supply, installation & commissioning of the work as Proof of Compliance by the Contractor**

**NIT No. MePDCL/SE (Project)/Off Grid/T-203 (E)/2020-21/01**

**Dated the 09<sup>th</sup> November, 2020.**

The details of materials for **Design, Supply, Testing, Installation & Commissioning of aggregated 50.0 MWp Off-Grid SPV Power Plants in different location in the state of Meghalaya under RESCO Model**

1. Name of Plant:-
2. Nos. & Capacity of Batteries:.....
3. Nos. of Junction Box: .....

**Signature & Seal of the contractor**

**Certificate of MePDCL Representative**

Certified that above mentioned materials have been inspected as per the specification and above materials handed over to the Consignee.

**Signature & Seal of Project In-charge**

---



**Annexure-13**

**Format for Monthly O&M and CMC Report**

**NIT No. MePDCL/SE (Project)/Off Grid/T-203 (E)/2020-21/01**

**Dated the 09<sup>th</sup> November, 2020.**

*[On the letterhead of Bidding Company]*

To,  
Superintending Engineer (Projects)  
Meghalaya Power Distribution Corporation Limited (MePDCL),  
'Lumjingshai', Short Round Road, Shillong, Meghalaya - 793001  
E-mail: seprojects.mepdcl@gmail.com  
Website: www.meecl.nic.in

Dear Sir,

**Sub: Design, Supply, Testing, Installation & Commissioning of aggregated 50.0 MWp  
Off-Grid SPV Power Plants in different location in the state of Meghalaya under RESCO  
Model**

Date of Installation.....

MEPDCL Dispatch Order No..... Dated.....

Month of OMC and CMC.....

Date of Visit.....

S. N.	Place of Installed System	System Details		CMC activities undertaken by Technician	Remarks
		Solar PV Module			
		Battery			
		PCU / Inverter			
		Cables/Connections			
		Any other Component			

**Energy Generated Status:**

Date	Present Reading	Previous Reading	Energy Generated

(Signature of Authorized

Signatory) Name:

Designation:

Company Seal:

**Annexure-14**

**Contact Person for the NIT**

**NIT No. MePDCL/SE (Project)/Off Grid/T-203 (E)/2020-21/01**

**Dated the 09<sup>th</sup> November, 2020.**

*[On the letterhead of Bidding Company]*

1	Contact Person name for the NIT	
2	Designation	
3	Contact No. (phone & mobile)	
4	Fax No.	
5	e-mail ID	
6	Corresponding address with pin code	
7	Remarks	

(Signature of Authorized

Signatory) Name:

Designation:

Company Seal:

**Annexure-15**  
**Check List of Technical bid**

**NIT No. MePDCL/SE (Project)/Off Grid/T-203 (E)/2020-21/01**

**Dated the 09<sup>th</sup> November, 2020.**

Sl. No	Particulars	Yes / No	Page No.
1	D. D. towards Tender fee.		
2	Duly pledged EMD		
3	GST certificate.		
4	PAN Card		
5	Firm's registration certificate		
6	Certificate issued by Industry Dept. or MNRE for system manufacturing or Registration Certificate for Electrical Contractor (Class-I) issued by Energy Department, Govt. of Meghalaya.		
7	Audited Balance sheet of last three years.		
8	Test certificate of Batteries		
9	Covering letter (Annexure-1)		
10	Information about the bidding firm (Annexure-2)		
11	Declaration by the bidder (Annexure-3)		
12	Annual Turn over (Annexure-4)		
13	Net Worth certificate (Annexure-5)		
14	Format for power of attorney for signing of bid (Annexure-6)		
15	Proof of supply/execution of SPV systems/ materials in any SNA/Govt. organization/PSU in the last seven years. Attach copy of orders & its satisfactory completion certificate (Annexure-7)		
16	Technical details & make of the Equipments to be supplied (Annexure-8)		
17	Contact Person for the NIB (Annexure-14)		

**\* Please write page number as in the box. Please ensure:**

- i) That all information is provided strictly in the order mentioned in the check list mentioned above.
- ii) Bidders are advised to strictly confirm compliance to bid conditions and not to stipulate any deviation/conditions in their offer. Subsequent to bid submission, MEPDCL may or may not seek confirmations/clarifications and any offer(s) not in line with Bid conditions shall be liable for rejection.
- iii) Any clarification/confirmation bidder may require shall be obtained from MEPDCL before submission of the bid. Bidder shall submit complete bidding document including subsequent amendment, modification and revision, duly signed and stamped as a token of having read, understood and accepted all the terms and condition mentioned therein.

**(Signature of Authorized Signatory)**  
Name and Designation: Company Seal: