

e-TENDER DOCUMENT

FOR

Supply, erection, testing and commissioning of Battery Bank for existing Solar PV Off-grid Power Plants in Health Establishments in the State of Tripura on turn-key basis including Warranty / Guarantee and Annual Maintenance Contract for 5 (five) years from the date of commissioning

DNIE-T No.F. 6(158)/TREDA/NCES/20/3919, dated 09/04/2020



TRIPURA RENEWABLE ENERGY DEVELOPMENT AGENCY

(Department of Power, Government of Tripura)

Vigyan Bhawan, Pandit Nehru Complex, Gorkhabasti, Agartala, Tripura

Tele-fax: 0381-2325900, 2326139, email-tredaagartala@gmail.com

URL: www.treda.nic.in

[Handwritten Signature]
9/4/2020

TRIPURA RENEWABLE ENERGY DEVELOPMENT AGENCY


(Power Department, Government of Tripura)


Vigyan Bhawan, Pandit Nehru Complex, Gorkhabasti, Agartala, Tripura

Tele-fax: 0381-2325900, 2326139, email-tredaagartala@gmail.com

NAME OF WORK: Supply, erection, testing and commissioning of Battery Bank for existing Solar PV Off-grid Power Plants in Health Establishments in the State of Tripura on turn-key basis including Warranty / Guarantee and Annual Maintenance Contract for 5 (five) years from the date of commissioning.

1. Certified that this DNle-T contains **62 (sixty two)** pages numbered from 1 to 62.
2. Header of each page of DNle-T bears the text “**e-TENDER FOR BATTERY BANK OF SPV POWER PLANTS IN TRIPURA**”
3. The Bid Information Sheet of above e-Tender is shown in Page No. **3** to Page No. **4**.


9/9/2020
(D S DAS)
Joint Director


9/9/2020

TRIPURA RENEWABLE ENERGY DEVELOPMENT AGENCY

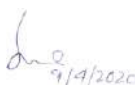
(Department of Power, Government of Tripura)

Vigyan Bhawan, Pandit Nehru Complex, Gorkhabasti, Agartala, Tripura

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BID INFORMATION SHEET

1.	DNIE-T	No.F. 6(158)/TREDA/NCES/20/3919, dated 09/04/2020
2.	Name of work	Supply, erection, testing and commissioning of Battery Bank for existing Solar PV Off-grid Power Plants in Health Establishments in the State of Tripura on turn-key basis including Warranty / Guarantee and Annual Maintenance Contract for 5 (five) years from the date of commissioning
3.	TENDER FEE	Rs. 2,000/- (Rupees two thousand) only are to be paid electronically using on-line facility provided in the e-procurement portal (Non-refundable).
4.	EMD	Rs. 11,55,500/- (Rupees eleven lakh fifty five thousand five hundred) only are to be paid electronically using on-line facility provided in the e-procurement portal. Governments of India or State Government Undertakings / Public Sector Enterprise are exempted from depositing EMD.
5.	Completion period for the work	120 (one hundred twenty) days from the date of issue of Letter of Award (LoA)
6.	Date of Publishing of Tender	09/04/2020
7.	e-procurement portal	https://tripuratenders.gov.in
8.	Document download Start date & time from e-procurement portal	09/04/2020 at 06:00 PM
9.	Date of start of seeking clarification	09/04/2020 at 06:00 PM
10.	Closing date for seeking clarification	16/04/2020 at 05:30 PM
11.	Clarification of bidders	Clarifications sought by the bidders through e-mail (tredaagartala@gmail.com) on or before seek closing date will be clarified by TREDA either through e-mail or through e-procurement Portal on 18/04/2020 by 5:30 PM .
12.	Bid Submission End Date & time	24/04/2020 at 03:30 PM
13.	Payment of Tender fee & EMD.	The payment of Tender Fee & EMD shall be made along with bid document.
14.	Online Bid Opening Date & time of Technical bid	24/04/2020 at 04:00 PM



15.	Online Bid Opening date & time of Price bid	Date & time for Price bid opening shall be communicated to Technically Qualified Bidders through e-tender portal.
16.	Place of Opening of Bids	In the office of the Director General & Chief Executive Officer, Tripura Renewable Energy Development Agency (A constituent organization of Department of Power, Govt. of Tripura), Vigyan Bhawan, 2 nd Floor, Pandit Nehru Complex, Gorkhabasti, Agartala, West Tripura District, Pin: 799006.
17.	Bid Validity	180 (One hundred eighty) days from the date of opening of the Price Bid.
18.	Officer inviting Bids	Sri Debabrata Sukladas, Joint Director, TREDA

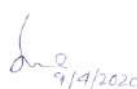
NOTE: All the above-mentioned time are as per clock time of e-procurement website <https://tripuratenders.gov.in>.


 (D S DAS)
Joint Director

IMPORTANT NOTE:

- 1) Tender documents may be downloaded from Central Public Procurement Portal <https://tripuratenders.gov.in>. Aspiring Bidders who have not enrolled/registered in e-procurement should enroll/register before participating through the website <https://tripuratenders.gov.in>. The enrollment for the bidder is free of cost. Bidders need to go through the tender document where instructions are given.
- 2) Bidders can access tender documents on the website, fill them with all relevant information and submit the completed tender document into electronic tender on the website <https://tripuratenders.gov.in>.
- 3) Tender and supporting documents as per DNIE-T should be uploaded through website <https://tripuratenders.gov.in>. Hard copy of the tender documents will not be accepted. The successful bidder(s) may be required to produce original documents on getting communications from TREDA before issue of formal work order.
- 4) Prospective bidders are requested to remain updated for any Notices/Amendments/Corrigendum etc. to the DNIE-T document through the website www.tripuratenders.gov.in. No separate Notices would be issued for such Notices/Amendments/Clarifications etc. in the print media or individually. All the information related to this DNIE-T shall only be uploaded in the website www.tripuratenders.gov.in.

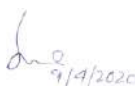

 (D S DAS)
Joint Director


 9/4/2020

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 (D S DAS)
Joint Director


 9/4/2020


PART – A

SIGNATURE OF THE BIDDER WITH SEAL & DATE


9/9/2020

PART 1

SIGNATURE OF THE BIDDER WITH SEAL & DATE


9/9/2020

TRIPURA RENEWABLE ENERGY DEVELOPMENT AGENCY

(Department of Power, Government of Tripura)

Vigyan Bhawan, Pandit Nehru Complex, Gorkhabasti, Agartala, Tripura


Tele-fax: 0381-2325900, 2326139, email-tredaagartala@gmail.com, URL: www.treda.nic.in**DNIE-T No.F. 6(158)/TREDA/NCES/20/3919****Date 09/04/2020****NOTICE INVITING e-TENDER**

On behalf of Tripura Renewable Energy Development Agency(TREDA), Joint Director, TREDA invites e-tenders from prospective bidders for the work of Supply, erection, testing and commissioning of Battery Bank for existing Solar PV Off-grid Power Plants in Health Establishments in the State of Tripura on turn-key basis including Warranty / Guarantee and Annual Maintenance Contract for 5 (five) years from the date of commissioning.

Sl. No.	Description	Quantity	Tender Fee	EMD	Period of completion
1	Supply, erection, testing and commissioning of Battery Bank capacity of 360V DC, 400 AH, Tubular GEL or AGM VRLA Battery, supply of Battery Rack and fitting fixing in existing 25 KWp Solar PV Power Plants on turn-key basis including Warranty / Guarantee and Annual Maintenance Contract for 5 (five) years from the date of commissioning at District Hospitals in the State of Tripura.	3 (three) nos.	Rs. 2,000/- (Rupees two thousand) only	Rs. 11,55,500/- (Rupees eleven lakh fifty five thousand five hundred) only	120 (one hundred twenty) days from the date of issue of Letter of Award (LoA)
2	Supply, erection, testing and commissioning of Battery Bank capacity of 180V DC, 400 AH, Tubular GEL or AGM VRLA Battery, supply of Battery Rack and fitting fixing in existing 10 KWp Solar PV Power Plants on turn-key basis including Warranty / Guarantee and Annual Maintenance Contract for 5 (five) years from the date of commissioning at Sub-divisional Hospitals in the State of Tripura.	13 (thirteen) nos.			
3	Supply, erection, testing and commissioning of Battery Bank capacity of 96V DC, 400 AH, Tubular GEL or AGM VRLA Battery, supply of Battery Rack and fitting fixing in existing 5 KWp Solar PV Power Plants on turn-key basis including Warranty / Guarantee and Annual Maintenance Contract for 5 (five) years from the date of commissioning at Primary Health Centres in the State of Tripura.	79 (seventy nine) nos.			

- The other details related to this e-tender can be seen and downloaded from the website <http://tripuratenders.gov.in>.
- Notification / Corrigendum / Addendum, if any, will be published only on the above website.


 (D S DAS)
 Joint Director


 9/4/2020

4. COVERING LETTER:

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

To
The Joint Director,
Tripura Renewable Energy Development Agency,
VigyanBhawan, P.N. Complex, Gorkhabasti,
Agartala, West Tripura District,
Pin; 799006.

SUB: Offer in response to DNIE-T No.F. 6(158)/TREDA/NCES/20/3919, dated 09/04/2020.

Sir,

We are submitting our offer in full compliance of the terms & conditions of the above cited DNIE-T. A blank copy of tender duly signed & stamped on each page is also submitted as a proof of our acceptance of all specifications as well as all the terms & conditions.

We confirm that, we have the capability for manufacture, supply, erection, testing and commissioning of Battery Banks and Battery Racks for existing Solar PV Power Plant on turn-key basis within the time period specified in the DNIE-T with other necessary infrastructures for providing after sales service for Warranty /Guarantee and 5 (five) years Annual Maintenance Contract from the date of commissioning.

We have electronically deposited the Tender Fee of Rs. 2,000/- (Rupees two thousand) only and EMD of Rs. 11,55,500/- (Rupees eleven lakh fifty five thousand five hundred) only through e-procurement portal.

We confirm that our offered rate would be valid for at least 180 (one hundred eighty) days from the date of opening of Price Bid.


The e-tender is uploaded in two separate files named Part-A for technical bid & Part-B for Price Bid only.

(Signature of the authorized signatory)

Name:

Designation:

Company Seal:

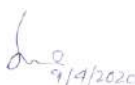

9/4/2020

5. CHECKLIST OF ANNEXURE/DOCUMENT TO BE UPLOADED: The following information/documents are to be annexed, flagged and uploaded by the Bidders along with the Technical BID). The list is indicative, any other document as required / specified in this DNIE-T are to be uploaded.

Sl. No.	Annexure No.	Particulars	Yes / No	Folder Name
3.1	Annexure - I	A blank copy of the e-tender document duly signed and stamped on each page		
3.2	Annexure - II	ELIGIBILITY DOCUMENTS		
	Annexure – II(a)	Documents in support of General Eligibility as per Clause No. 3.1 of SECTION 3 and FORMAT 1 along with relevant documents.		
	Annexure – II(b)	Documents in support of Technical Eligibility as per Clause No. 3.2 of SECTION 3 (FORMAT 2 along with relevant documents)		
	Annexure – II(C)	Documents in support of Financial Eligibility as per Clause No. 3.3 of SECTION 3 (FORMAT 3)		
3.3	Annexure - III	Power of Attorney for the person representing bidder for this e-tender as per FORMAT – 4 and Letter of Authorization as per FORMAT 5.		
3.4	Annexure – IV	Affidavit to confirm that bidder has not been Debarred or Blacklisted by any Government Department or Undertaking as per FORMAT 6.		
3.5	Annexure – V	PART 6: TECHNICAL BID AND Test Certificates / BIS Certificates of offered Tubular GEL or AGM VRLA Battery in compliance with IS/IEC/BIS Standards as per PART 7 of the DNIE-T OR Declaration to submit the Test Reports / BIS Certificate of offered Tubular GEL or AGM VRLA Battery in compliance with IS/IEC/BIS Standards as per PART 7 of the DNIE-T within 30 (thirty) days from the date of issue of LoA.		
3.6	Annexure - VI	a) Declaration by the bidder b) Covering Letter		
3.7	Annexure VII	a) Copy of PAN Card. b) Copy of valid GST registration certificate. c) Copy of IT return for last 3 (three) Assessment Years d) Any other documents as per DNIE-T, please specify.		

NOTE:

- a) Please mark the Annexure number in **right upper corner** in **all pages** of the relevant uploaded documents and **write Folder Name** in the box.
- b) Bids received without supporting documents as specified and mentioned in DNIE-T shall be rejected.

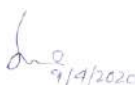


6. PARTICULARS OF E-TENDER:

6.1	e-tender	DNle-T No.F. 6(158)/TREDA/NCES/20/3919, dated 09/04/2020
6.2	Particulars of work	<p>4.2.1 Supply, erection, testing and commissioning of Battery Bank capacity of 360V DC, 400 AH, Tubular GEL or AGM VRLA Battery, supply of Battery Rack and fitting fixing in existing 25 KWp Solar PV Power Plants on turn-key basis per detail technical specifications mentioned at PART 4 of DNle-T including 5 (five) years Warranty /Guarantee & Annual Maintenance Contract.</p> <p>4.2.2 Supply, erection, testing and commissioning of Battery Bank capacity of 180V DC, 400 AH, Tubular GEL or AGM VRLA Battery, supply of Battery Rack and fitting fixing in existing 10 KWp Solar PV Power Plants on turn-key basis as per detail technical specifications mentioned at PART 4 of DNle-T including 5 (five) years Warranty /Guarantee & Annual Maintenance Contract.</p> <p>4.2.3 Supply, erection, testing and commissioning of Battery Bank capacity of 96V DC, 400 AH, Tubular GEL or AGM VRLA Battery, supply of Battery Rack and fitting fixing in existing 5 KWp Solar PV Power Plants on turn-key basis as per detail technical specifications mentioned at PART 4 of DNle-T including 5 (five) years Warranty /Guarantee & Annual Maintenance Contract.</p>
6.3	Period of completion	120 (one hundred twenty) days from the date of issue of Letter of Award (LoA)
6.4	Period of validity of rates for acceptance	180 (One hundred eighty) days from the date of opening of Price Bid.
6.5	Place of opening of e-tender	Office of the Director General & Chief Executive Officer, Tripura Renewable Energy Development Agency (A constituent organization of Department of Power, Govt. of Tripura), Vigyan Bhawan, 2 nd Floor, Pandit Nehru Complex, Gorkhabasti, Agartala, West Tripura District, Pin: 799006.

6.6. The bidders can view the DNle-T and the time schedule (Key Dates) for all the tenders floated through the single portal e-procurement system on the Home Page at <https://tripuratenders.gov.in>.

6.7. Bidders are advised to study the tender Document carefully. Submission of e-Bid against this tender shall be deemed to have been done after careful study and



examination of the procedures, terms and conditions of the tender Document with full understanding of its implications.

- 6.8. The bid should be submitted through e-Procurement website **<https://tripuratenders.gov.in>**.
- 6.9. The e-Bids will be electronically opened in the presence of bidders representatives, who choose to attend at the venue, date and time mentioned in the above table. An authority letter of bidders representative willing to be present during opening shall be produced.
- 6.10. In the event of date specified for e-Bids opening being declared a holiday for TREDA's office then the due date for opening of e-Bids shall be the following working day at the appointed time and place.
- 6.11. All the required documents including Price Schedule/BOQ should be uploaded by the Bidder electronically in the PDF/XLS format. The required electronic documents for each document label of Technical (Qualification details, e-Bid Form and Technical Specification details) schedules can be clubbed together to make single different files for each label. All the enclosures should be scanned and uploaded with bid as per requirement of e-procurement portal **<https://tripuratenders.gov.in>**.

7. DECLARATION BY THE BIDDER

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

DECLARATION BY THE BIDDER


(Regarding e-Tender Notice DNIE-T No.F. 6(158)/TREDA/NCES/20/3919, dated 09/04/2020)

I/We _____ (hereinafter referred to as the bidder) being desirous of tendering for the 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 other contractor, any employee of TREDA / Department of Power, Govt. of Tripura or its autonomous bodies 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 TREDA / Department of Power, Govt. of Tripura or its autonomous bodies 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 TREDA.
- 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 or Black Listed from similar type of work by TREDA and or Central / State Government Departments /Undertaking during last three years.
- 11) This offer shall remain valid for acceptance for 180 (one hundred eighty) days from the date of opening of the Price Bid.
- 12) The Bidder gives the assurance to execute the work as per technical specifications, terms and conditions of the DNIE-T.
- 13) The Bidder assured to execute the work in accordance to the time schedule as per PERT Network duly approved by TREDA.
- 14) The terms and conditions of DNIE-T will be binding upon bidder in the event of acceptance of their tender.
- 15) The Bidder has submitted the Tender Fee and Earnest Money as required in the tender document.
- 16) The Bidder accepts that the earnest money be partially / absolutely forfeited by TREDA as per the terms & conditions laid down in this DNIE-T.

Date: ____/____/2020

(Signature of bidder)
WITH SEAL


9/4/2020

PART - 2: INSTRUCTION TO BIDDERS (ITB)

SECTION -1: THE e-TENDER DOCUMENT

1.1 *Contents of e-tender document:* The e-tender procedure and contract terms are prescribed in the e-tender Documents. In addition to the e-tender Notice the Bidding documents include.

1.1.1 PART – A

1.1.1.1 PART – 1

- 1.1.1.1.1 e-tender Notice
- 1.1.1.1.2 Covering letter
- 1.1.1.1.3 Checklist of Annexure
- 1.1.1.1.4 Particulars of e-tender
- 1.1.1.1.5 Declaration by bidder

1.1.1.2 PART 2: Instruction to bidder

- 1.1.1.2.1 Section -1 Contents of e-tender document
- 1.1.1.2.2 Section-2 Bidder to inform fully
- 1.1.1.2.3 Section -3 Eligibility condition
- 1.1.1.2.4 Section-4 Preparation of e-tender
- 1.1.1.2.5 Section-5 Uploading of e-tender
- 1.1.1.2.6 Section -6 e-tender opening and evaluation
- 1.1.1.2.7 Section-7 Procedure for Finalisation of Bid

1.1.2 PART 3: General Condition of the Contract

1.1.3 PART 4: Scope of Work & Technical specifications

1.1.4 PART 5: Details of Warranty/Guarantee and Annual Maintenance Contract Obligations

1.1.5 PART 6: Technical Bid

1.1.6 PART 7: Quality certification, standards and testing for Battery


1.1.1 PART – B: PRICE BID

[NOTE: The Bidder is expected to examine all instructions, forms, terms and specifications as mentioned in the e-tender document. Failure to furnish all information required by the e-tender documents or submission of a bid not substantially responsive to the Bid Document in every respect will be at the Bidder's risk and is likely to result in out-right rejection of the e-tender.]

1.2 LOCAL CONDITIONS: It shall be imperative on each bidder to fully inform himself of all local conditions and factors, which may have any effect on the execution of the works covered under these documents and specifications. TREDA shall not entertain any request for clarifications from the Bidder, regarding such local conditions.

1.3 CLARIFICATION:

1.3.1 A prospective Bidder requiring any clarification of the e-tender Documents may contact TREDA in writing through mail at the TREDA's mailing address


9/9/2020

tredaagartala@gmail.com or by post / courier to the office of the undersigned by **16/04/2020 upto 05:30 PM**, reply to the clarification would be sent through e-mail or through e-procurement portal only **on 18/04/2020 by 5:30 PM**. TRED A will not be responsible for any postal delay in receipt of their letter / Queries.

- 1.3.2 TRED A will not be responsible for non-receipt of above communications.
- 1.3.3 Verbal clarifications and informations given by the TRED A or its employees or its representatives shall not be in any way entertained.
- 1.3.4 The bidders have to remain updated with the e-procurement portal **<https://tripuratenders.gov.in>**.
- 1.3.5 The TRED A is not under any obligation to entertain or respond to suggestions made or to incorporate modifications sought for.

1.4 AMENDMENT OF e-tender DOCUMENT:

- 1.4.1 At any time prior to the due date for submission of the e-tender, TRED A may for any reason, whether at its own initiative or as a result of a request for clarification / suggestion by a prospective bidder, amend the tender document by issuing a notice.
- 1.4.2 The amendments will be notified on the **e-Tender website <http://tripuratenders.gov.in>** at least **5 (five) days** before the last date of submission of the tender. TRED A will bear no responsibility or liability arising out of non-receipt of the information in time or otherwise. Bidders must check the website for any such amendment before submitting their bid.
- 1.4.3 If any Notification is to be issued within 5 (five) days from the last date of submission of tender, suitable time extension for bid submission would be given.
- 1.4.4 All the notices related to this bid which are required to be publicized shall be uploaded on website **<http://tripuratenders.gov.in>**.

- 1.5 The Bidder shall make independent enquiry and satisfy itself with respect to all the required information, inputs, conditions, including site conditions and circumstances and factors that may have any effect on its Bid. Once the Bidder has submitted the Bids, the Bidder shall be deemed to have examined the laws and regulations in force in India and prepare the Financial Bid and other sections taking into account all such relevant conditions and also the risks, contingencies and other circumstances which may influence or affect the implementation of the work. Accordingly, the Bidder acknowledges that, on being selected as the Selected Bidder, it shall not be relieved from any of its obligations foreseen under this Document nor shall be entitled to any extension of time for completion of work or financial compensation for any reason whatsoever.

SECTION-2: BIDDERS TO INFORM FULLY

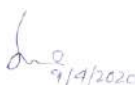
2.1 INTRODUCTION:

- 2.1.1. Under Off-grid & Decentralized Solar Application Scheme of MNRE, Govt. of India, TREDA has implemented 25 KWp Off-grid SPV Power Plants at 3 District Hospitals, 10 KWp off-grid Power Plants at 13 Sub-divisional Hospitals and 5 KWp Off-grid Power Plant at 79 Primary Health Centres in the state of Tripura. The SPV Plants were installed & commissioned by M/S Su-Kam Power Systems Limited, Plot No. 54, Udyog Vihar, Phase VI, Sector-37, Gurgaon-122001, Haryana with 5(five) years Warranty / Guarantee (25 years performance warranty for SPV Module).
- 2.1.2. Solar Power plants were installed during 2014-15. TREDA has intended to replace existing Battery banks of all the installed SPV Power Plants with Tubule GEL OR AGM VRLA Batteries with BUY BACK POLICY AS IS WHERE IS BASIS of existing batteries.
- 2.1.3. TREDA invited e-tender for supply, erection, testing and commissioning of Battery Bank for existing Solar PV Power Plants in Health Establishments in the State of Tripura on turn-key basis including Warranty / Guarantee and Annual Maintenance Contract for 5 (five) years from the date of commissioning.

2.2 TENTATIVE LOCATION OF INSTALLATION:

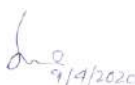
Sl. No.	Name of the District	Name of the Hospital	Capacity of SPV Power Plant	Battery Bank Size
2.2.1	Gomati	Tripura Sundari District Hospital	25 KWp	360V DC, 400 AH
2.2.2	Unakoti	R.G.M. Hospital District Hospital	25 KWp	360V DC, 400 AH
2.2.3	Khowai	Khowai District Hospital	25 KWp	360V DC, 400 AH
2.2.4	Sepahijala	Bishalghar Sub-Divisional Hospital	10 KWp	180V DC, 400 AH
2.2.5	Do	Melaghar Sub-Divisional Hospital	10 KWp	180V DC, 400 AH
2.2.6	Khowai	Khowai Sub-Divisional Hospital	10 KWp	180V DC, 400 AH
2.2.7	Do	Teliamura Sub-Divisional Hospital	10 KWp	180V DC, 400 AH
2.2.8	Gomati	Amarpur Sub-Divisional Hospital	10 KWp	180V DC, 400 AH
2.2.9	South Tripura District	Belonia Sub-Divisional Hospital	10 KWp	180V DC, 400 AH
2.2.10	Do	Sabroom Sub-Divisional Hospital	10 KWp	180V DC, 400 AH
2.2.11	Do	Santirbazar Sub-Divisional Hospital	10 KWp	180V DC, 400 AH
2.2.12	North Tripura	Dharmanagar Sub-Divisional Hospital	10 KWp	180V DC, 400 AH
2.2.13	Do	Kanchanpur	10 KWp	180V DC, 400 AH
2.2.14	Dhalai	Bimal Singh Memorial Hospital	10 KWp	180V DC, 400

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		Sub-Divisional Hospital		AH
2.2.15	Do	Gandacherra Sub-Divisional Hospital	10 KWp	180V DC, 400 AH
2.2.16	Do	Longthraivalley Sub-Divisional Hospital	10 KWp	180V DC, 400 AH
2.2.17	West Tripura District	Bamutia Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.18	Do	Katlamara Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.19	Do	Narsinghar Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.20	Do	Chachubazar Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.21	Do	Borakha Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.22	Do	Mandai Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.23	Do	Ranirbazar Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.24	Sipahijala	Anandanagar Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.25	Do	Kanchanmala Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.26	Do	Bishramganj Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.27	Do	Madhupur Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.28	Do	Dayarampara Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.29	Do	Kathalia Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.30	Do	Microsapara Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.31	Do	Boxanagar Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.32	Do	Kamalnagar Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.33	Do	Motinagar Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.34	Do	Taibandal Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.35	Khowai	Chebri Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.36	Do	Ampura Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.37	Do	Baijalbari Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.38	Do	Mungiakami Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.39	Do	Tulashikhar Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.40	Do	Behalabari Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.41	Gomati	Chellagang Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.42	Do	Karbook Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.43	Do	Shilachari Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.44	Do	Tirthamukh Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.45	Do	Kakraban Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.46	Do	Tulamura Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.47	Do	Killa Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.48	Do	Atharabhola Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.49	Do	Maharani Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.50	Do	Garjee Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.51	South Tripura District	Nalua Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.52	Do	Hrishamukh Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.53	Do	Ratanpur Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.54	Do	Kwaifung Primary Health Centre	5 KWp	96V DC, 400 AH

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2.2.55	Do	Rajnagar Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.56	Do	Barpathari Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.57	Do	Niharnagar Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.58	Do	Muhuripur Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.59	Do	Jolaibari Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.60	Do	Santirbazar Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.61	Do	Baikhora Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.62	Do	Rupaichari Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.63	Do	Manubankul Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.64	Do	Srinagar Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.65	Do	Kalacharra Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.66	Unakoti	Irani Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.67	Do	Dhanbilash Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.68	Do	Kanchanbari Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.69	Do	Fatikroy Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.70	North Tripura	Sanicherra Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.71	Do	Brajendranagar Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.72	Do	Kadamtala Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.73	Do	Bungnung Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.74	Do	Jalebasa Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.75	Do	Panisagar Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.76	Do	Tilthai Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.77	Do	Uptakhali Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.78	Do	Pecharthal Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.79	Do	Machmara Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.80	Do	Anandabazar Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.81	Do	Dasda Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.82	Do	Damcherra Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.83	Do	Khedacherra Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.84	Do	Jampui Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.85	Dhalai	Ambassa Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.86	Do	Kulai Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.87	Do	Ganganagar Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.88	Do	Jagabandhupara Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.89	Do	Raishyabari Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.90	Do	Maracharra Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.91	Do	Nakashipara Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.92	Do	Salema Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.93	Do	82 miles Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.94	Do	Chawmanu Primary Health Centre	5 KWp	96V DC, 400 AH
2.2.95	Do	Manikpur Primary Health Centre	5 KWp	96V DC, 400 AH

2.3 MODE OF EXECUTION OF PROGRAMME:

2.3.1 The basis of evaluation of the bids shall be the cost/rate quoted in the Price Schedule. To further clarify, installation and commissioning cost and taxes etc. shall be inclusive to the cost of supply of complete system with **BUY BACK OF EXISTING BATTERIES AS IS WHERE IS**

BASIS including 5 years comprehensive maintenance for comparison and evaluation. The bidders are required to quote rate / cost on firm basis and no price variation on any account shall be considered.

- 2.3.2 The successful bidder shall provide maintenance services for 5 years from the date of commissioning with free replacement warranty against manufacturing defects, normal wear & tear. They shall also be required to set up their operation and maintenance centers in each District for providing effective maintenance services to the beneficiaries / users.
- 2.3.3 The Programme shall be carried out as given here under:-
- 2.3.3.1 The contractor shall be allowed to install the batteries conforming to the specifications mentioned in this document after clearance from TREDA.
- 2.3.3.2 The work covers manufacture, supply, erection, testing, commissioning with dispose of existing batteries, racks & accessories and comprehensive maintenance for FIVE years of the Battery.
- 2.3.3.3 TREDA reserves the right to change the site of installation before commencement of supply of materials.
- 2.4 TENDER FEE:- Rs. 2,000/- (Rupees two thousand)** only to be paid electronically using the Online Payment Facility provided by the e-procurement Portal (Non-refundable).
- 2.5 EARNEST MONEY DEPOSIT (EMD): Rs. 11,55,500/- (Rupees eleven lakh fifty five thousand five hundred)** only to be paid electronically using the Online Payment Facility provided by the e-procurement Portal. Governments of India or State Government Undertakings / Public Sector Enterprise are exempted from depositing EMD.
- 2.6 PROCEDURE FOR DEPOSITING TENDER FEE (TF) AND EARNEST MONEY DEPOSIT (EMD):**
- 2.6.1 Tender Fee and Earnest Money Deposit are to be paid electronically using the Online payment Facility provided in the e-procurement Portal.
- 2.6.2 After initiating the Bid Submission Process from “My Tender” option, an “Online Payment” page will appear which will display the total TF & EMD.
- 2.6.3 On submission of TF & EMD payment option, System will redirect to the SBI Bank MOPS window.
- 2.6.4 SBI MOPS will have two options for Net Banking – “SBI” & “Other Bank”. Bidder can choose any of the options as desired and can complete the Online Payment process.
- 2.7** Governments of India or State Government Undertakings / Public Sector Enterprise are exempted from depositing EMD.
- 2.8** Earnest Money Deposit / Performance Bank Guarantee is exempted for Micro and small firm setup and registered in Tripura. The certificate issued by District Industries Office for having MSE setup is mandatory to avail the exemption of EMD and Performance Security.
- 2.9** The facilities may be extended to SSI Units registered with NSIC under its single point registration scheme having manufacturing unit at Tripura as per norms of Tripura Industrial Investment Promotion Incentive Scheme – 2017 of Department of Industries & Commerce, Govt. of Tripura. The certificate issued

by District Industries Office for having SSI units setup is mandatory to avail facilities.

2.10 RELEASE OF EARNEST MONEY DEPOSIT (EMD):

- 2.10.1 EMD amount shall be refunded to all the bidders including successful bidder in their respective Bank accounts, after the Letter of Award (LoA) is uploaded in the e-procurement Portal <http://tripuratenders.gov.in>, on receipt of Performance Security (Performance Bank Guarantee) from the successful bidder.
- 2.10.2 The EMD of the successful bidder will be forfeited if the successful bidder fails to provide "Performance Bank Guarantee" within the stipulated period after issuance of Letter of Intent (LoI).
- 2.10.3 If any bidder withdraws his offer after opening tender, deposited EMD will be forfeited.
- 2.10.4 If document(s) / certificate(s) submitted by the bidder(s) is/are found fake/false/fabricated, 100% EMD of the bidder(s) will be forfeited.
- 2.10.5 The EMD by the bidders will not carry any interest.

2.11 PERFORMANCE SECURITY:

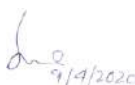
- 2.11.1 Successful bidder within 15 (fifteen) days of the issue of Letter of Intent (LoI) shall provide "Performance Bank Guarantee" as Performance Security for an amount equal to the 10% of the total contract value with a validity period including Warranty/Guarantee and Annual Maintenance Contract obligations + 30 (thirty) days claim period.
- 2.11.2 Performance Bank Guarantee = 10% of Contract value may be issued with a validity period initially for a period of 2 (two) years + 30 (thirty) days claim period which may be extended on year to year basis thereafter.
- 2.11.3 Performance Bank Guarantee should be submitted in favour of Director General & CEO, TREDA in the **FORMAT 8** (Performance Security Bond Form).
- 2.11.4 The Performance Security denominated in Indian Rupees shall be in the form of Bank Guarantee (BG) on Nationalized / Scheduled Bank guaranteed by the Reserve Bank of India.
- 2.11.5 Any request for time extension by the bidder for submission of "Performance Bank Guarantee" will not be accepted.
- 2.11.6 On receipt of "Performance Bank Guarantee" from the selected bidder, TREDA shall scrutinize the received instrument for its authenticity and validity for the Amount & Period.
- 2.11.7 The Performance Security shall be forfeited as follows without prejudice to the Bidder being liable for any further consequential loss or damage incurred to TREDA.
 - 2.11.7.1 If the Successful Bidder is not able to commission the entire projects or part thereof to the satisfaction of TREDA, hundred percent (100%) Performance Security amount would be forfeited.
 - 2.11.7.2 In the event of breach / violation or contravention of any terms and conditions contained herein by the agency i.e. if the selected bidder fails to execute the contract including compliance to Warranty/Guarantee and Annual Maintenance Contract for satisfactory performance of the battery bank, the Performance Security, part / whole as per decision of Tendering Authority, will be forfeited from the guarantor.

2.11.7.3 In all the above cases corresponding non-commissioned capacity shall stand cancelled.

2.11.8 The Performance security shall be released after successful performance of battery bank and with the compliance of entire obligations in the contract from the date of commissioning.

2.12 BID INFORMATION SHEET:

2.12.1	Document Description	The bidding process under this is supply, erection, testing and commissioning of Battery Bank of 5502 Tubular GEL or AGM VRLA Battery including Battery Racks for following Health Establishments: a) 360V DC, 400 AH each for 3 District Hospitals, b) 180 Volt, 400 AH each for 13 Sub-divisional Hospitals c) 96 Volt, 400 AH each for 79 Primary Health Centres.
2.12.2	Broad Scope	<p>2.12.2.1 Supply, erection, testing and commissioning of Battery Bank capacity of 360V DC, 400 AH, Tubular GEL or AGM VRLA Battery, supply of Battery Rack and fitting fixing in existing 25 KWp Solar PV Power Plants on turn-key basis per detail technical specifications mentioned at PART 4 of DNIE-T including 5 (five) years Warranty /Guarantee & Annual Maintenance Contract.</p> <p>2.12.2.2 Supply, erection, testing and commissioning of Battery Bank capacity of 180V DC, 400 AH, Tubular GEL or AGM VRLA Battery, supply of Battery Rack and fitting fixing in existing 10 KWp Solar PV Power Plants on turn-key basis as per detail technical specifications mentioned at PART 4 of DNIE-T including 5 (five) years Warranty /Guarantee & Annual Maintenance Contract.</p> <p>2.12.2.3 Supply, erection, testing and commissioning of Battery Bank capacity of 96V DC, 400 AH, Tubular GEL or AGM VRLA Battery, supply of Battery Rack and fitting fixing in existing 5 KWp Solar PV Power Plants on turn-key basis as per detail technical specifications mentioned at PART 4 of DNIE-T including 5 (five) years Warranty /Guarantee & Annual Maintenance Contract.</p> <p>2.12.2.4 Total timeline up to Commissioning for the above Scope of Work including additional items (Internal electrification) is 6(six) months from the date of issue of Letter of Award (LoA).</p>
2.12.3	Tender Fee	Rs. 2,000/- (Rupees two thousand) only to be paid electronically using the Online Payment Facility provided by the e-procurement Portal (Non-refundable).
2.12.4	Earnest Money Deposit	Rs. 11,55,500/- (Rupees eleven lakh fifty five thousand five hundred) only to be paid electronically using the Online Payment Facility provided by the e-procurement Portal.



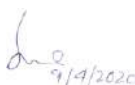
	(EMD)	Governments of India or State Government Undertakings / Public Sector Enterprise are exempted from depositing EMD.
2.12.5	Performance Security	Successful bidder within 15 (fifteen) days of the issue of Letter of Intent (LoI) shall provide "Performance Bank Guarantee" as per Performance Security for an amount equal to the 10 % of the total contract value with a validity period including Warranty/Guarantee and Annual Maintenance Contract obligations + 30 (thirty) days claim period OR Performance Bank Guarantee = 10% of Contract value may be issued with a validity period initially for a period of 2 (two) years + 30 (thirty) days which may be extended on year to year basis thereafter.

- 2.13** The bidder shall be responsible for Annual Maintenance of the installed Batteries for a period of 5 years, during which TREDA will monitor for effective & satisfactory performance in line with conditions specified elsewhere in the bid document.
- 2.14** Tender without Tender Fee & EMD shall not be accepted. However, Government of India Undertakings will have the option of submitting EMD in the form of Bank Guarantee on any Nationalized Bank.
- 2.15** Any damage of the existing installations, building etc. made by the successful bidder during execution of this work shall be made good as it was at his own cost & risk.
- 2.16** This is a ZERO Deviation Bidding Process. Bidder is to ensure compliance of all provisions of the Bid Document and submit their Bid accordingly. Tenders with any deviation to the bid conditions shall be liable for rejection.
- 2.17 RIGHT TO ACCEPT / REJECT THE BID:** TREDA reserves the right to accept or reject any Bid or annul the bidding process and reject all such bids at any time prior to award of contract, without thereby incurring any liability to the affected applicant(s) or any obligation to inform the affected applicant(s) of the ground for such decision.

SECTION - 3 ELIGIBILITY CONDITION

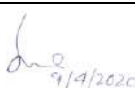
3.1	General Eligibility	<p>3.1.1 The bidder must full fill any one of the following criteria:</p> <p>3.1.1.1 <u>MANUFACTURER CRITERIA</u>: The bidder should be a manufacturer of either <u>Tubular GEL Battery OR AGM VRLA Battery of SPV Power Plants</u> for at least 3 (three) audited year & also should have valid Test Certificate / Report as per relevant Clause of the DNle-T.</p> <p>3.1.1.2 AUTHORIZED AGENT OF MANUFACTURER AS SPECIFIED AT CLAUSE NO. 3.1.1.1: The bidder may be a Authorised Agent of manufacturer of Tubular GEL Batteries OR AGM VRLA Batteries of Solar PV Power Plants. The bidder has to submit Authorization Certificate from concerned manufacturer along with technical bid for Tubular GEL Batteries OR AGM VRLA Batteries.</p> <p>3.1.1.3 <u>SYSTEM INTEGRATOR CRITERIA</u>: The bidder may be System Integrator i.e. the components of <u>Tubular GEL Battery OR AGM VRLA Battery</u> procured by the bidder through outsourcing, proper certificates from the concerned Battery manufacturers are to be submitted along with the technical bid regarding support to be provided by the concerned Battery manufacturers for 5 (five) years of post installation maintenance and performance warrantee/guarantee of the battery.</p> <p>3.1.1.4 A body incorporated in India under the Companies Act, 1956 or Companies Act, 2013 including any amendment there to and engaged in the business of Solar Power. Proper certificates from the concerned Battery manufacturers are to be submitted along with the technical bid regarding support to be provided by the concerned Battery manufacturers for 5 (five) years of post installation maintenance and performance warrantee/guarantee of the battery.</p> <p>3.1.1.5 Governments of India or State Government Undertakings / Public Sector Enterprise engaged in the business of Solar Power.</p>
3.2	Technical Eligibility	<p>3.2.1 The bidder should have minimum three years experience of successful installation of Off-grid / Hybrid solar Power plant projects (Individual capacity of installed SPV Power Plants should</p>

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		<p>be ≥ 5 KWp) OR supply of 2/6/12 Volt Tubular GEL Battery OR supply of 2/6/12 Volt AGM VRLA Battery to any Central / State Government Departments / PCUs.</p> <p>3.2.2 The bidder should have cumulative experience of executing ≥ 150 KWp off-grid and / or Hybrid SPV Power Plants OR experience in supply of ≥ 1375 nos. 2/6/12 Volt Tubular GEL Battery OR 2/6/12 Volt AGM VRLA Battery in India. The list of project commissioned OR battery supplied in last three financial years including the current financial year as on the date of publication of this DNIE-T along with the copies of the works completion certificates and Work orders / Contracts/ Agreements from the Client/Owner shall be submitted.</p> <p>3.2.3 AUTHORIZED AGENT OF MANUFACTURER AS SPECIFIED AT CLAUSE NO. 3.1.1.1 shall submit cumulative experience of manufacturer.</p> <p>3.2.4 Previous credential / records of the bidder as proof of experience / credential/satisfactory completion of works etc., as specified above should be submitted along with technical bid of the tender as performance certificate.</p> <p>3.2.5 Experience of any collaborator/sister concern of the bidder submitted as experience proof of the bidder will not be accepted.</p>
3.3	Financial Eligibility	<p>3.3.1 The financial capability of the bidder to carry out the proposed work to be supported by Audited balance sheet for three years from 2016-17, 2017-18, 2018-19 (in case of 2018-19, provisional balance sheet along with CA certificate should be attached).</p> <p>3.3.2 The Minimum Average Annual Turnover (MAAT) of the bidder in the last three financial years should be Rs. 115.50 lakh (Rupees one crore fifteen lakh fifty thousand) only. The MAAT submitted along with the bid shall be of individual bidder, MAAT of group of Companies will not be considered as financial eligibility of the bidder.</p> <p>3.3.3 The bidder should have positive net worth for three years (2016-17, 2017-18, 2018-19).</p> <p>3.2.6 AUTHORIZED AGENT OF MANUFACTURER AS SPECIFIED AT CLAUSE NO. 3.1.1.1 may have the option of submitting Financial Eligibility of the manufacturer as mentioned above.</p>
3.4	Tender Fee	Rs. 2,000/- (Rupees two thousand) only
3.5	EMD	Rs. 11,55,500/- (Rupees eleven lakh fifty five

SIGNATURE OF THE BIDDER WITH SEAL & DATE




		thousand five hundred) only
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- 3.6 Bidders shall maintain strict adherence while filling the formats as specified in this document during submission of bids. Wherever, information has been sought in specified formats, the Bidder shall refrain from referring to brochures /pamphlets. Non-adherence to formats and / or submission of incomplete information may be a ground for declaring the Bid as non-responsive. Each format has to be duly filled in, signed and stamped by the authorized signatory of the Bidder then scanned and uploaded in the Technical Bid.

SECTION-4 PREPARATION OF E-TENDER

- 4.1 LANGUAGE OF BID AND MEASURE: The e-tender prepared by the Bidder and all correspondence and documents relating to the bid exchanged by the Bidder and TREDA shall be written in the **English** provided that any printed literature furnished by the Bidder may be written in another language so long as accompanied by an English translation of its pertinent passages for purpose of interpretation, units of measurement shall be MKS system.
- 4.2 **DOCUMENTS COMPRISING THE BID:** The e-tender prepared by the Bidder shall comprise the following components:
- 4.2.1 A blank copy of the e-tender document signed & stamped on each page, as a confirmation by the Bidder to accept all technical specifications / commercial conditions along with all necessary enclosures.
 - 4.2.2 Documents in support of General, Technical & Financial Eligibility as provided in e-tender document,
 - 4.2.3 Power of Attorney for the person representing bidder for this e-tender as provided in e-tender document
 - 4.2.4 Authorization letter of the Bidder for the person representing his Company/Firm/ Corporation, as provided in e-tender document,
 - 4.2.5 Affidavit to confirm that bidder has not been Debarred or Blacklisted by any Government Department or Undertaking as provided in e-tender document
 - 4.2.6 PART 6: TECHNICAL BID **AND** Test Certificates / BIS Certificates of offered Tubular GEL or AGM VRLA Battery in compliance with IS/IEC/BIS Standards as per PART 7 of the DNle-T **OR** Declaration to submit the Test Reports / BIS Certificate of offered Tubular GEL or AGM VRLA Battery in compliance with IS/IEC/BIS Standards as per PART 7 of the DNle-T within 30 (thirty) days from the date of issue of LoA.
 - 4.2.7 Covering letter as provided in e-tender document.
 - 4.2.8 Declaration by The Bidder, as provided in e-tender document
 - 4.2.9 CHECK LIST OF ANNEXURE as provided in e-tender document
 - 4.2.10 General particulars of bidder, as provided in e-tender document.
 - 4.2.11 Any other documents as per DNle-T, please specify.
- 4.3 **BID PRICE:**
- 4.3.1 The Bidder shall indicate prices on the appropriate price bid schedule.
 - 4.3.2 Bidder shall quote for all categories,
 - 4.3.3 The rate quoted in the Bill of Quantity (BOQ) which is in MS-Excel (Macro enabled) should be in Indian Rupees and be firm, inclusive all the charges including GST etc. as required.
 - 4.3.4 The quoted price shall be net price after deducting / adjusting the **BUY BACK PRICE OF EXISTING BATTERIES AS IS WHERE IS BASIS**. The bidder shall be responsible for removal of existing batteries from the site of installation where new set of batteries will be installed.
- 4.3.5 **DUTIES AND TAXES:**
- 4.3.5.1 The price quoted should include all taxes as applicable. Except as otherwise, specifically provided in the contract, the bidder shall bear and pay all taxes, duties, levies and charges assessed on the bidder by all Municipal, State or National Govt. Authorities. All taxes, duties & levies on the works Contract, if any, shall be to the bidders account and no separate claim in this regard will be entertained by TREDA.

- 4.3.5.2 TDS on Income as applicable will be deducted at source as per the prevailing laws.
- 4.3.5.3 GST as applicable will be deducted at source as per the prevailing laws and rules of Government of India and Government of Tripura.
- 4.3.5.4 In case of variation in applicable GST (+ or -) during the Contract Period, the same will be adjusted accordingly.
- 4.4 **BID CURRENCIES:** Prices shall be quoted in Indian Rupees (INR) only.
- 4.5 **PERIOD OF VALIDITY OF e-TENDER:**
 - 4.5.1 Validity of the offer should be 180 (one hundred eighty) days from the date of opening of the Price Bid of the e-tenders.
 - 4.5.2 In exceptional circumstances; the TREDATA will solicit the Bidder's consent to an extension of the period of validity. The request and the response there of, shall be made in writing.
- 4.6 **BID SECURITY / EARNEST MONEY DEPOSIT (EMD):**
 - 4.6.1 The bidder shall submit, as part of its bid, BID SECURITY / EMD electronically using the Online Payment Facility provided by e-procurement Portal.
 - 4.6.2 Governments of India or State Government Undertakings / Public Sector Enterprise are exempted from depositing EMD.
 - 4.6.3 Any bid not secured with the Tender Fee and Earnest Money Deposit will be rejected by the TREDATA as non-responsive.
 - 4.6.4 EMD amount shall be refunded to all the bidders including success bidder in their respective Bank accounts after the Letter of Award (LoA) is issued through e-procurement Portal <http://tripuratenders.gov.in> on receipt of Performance Bank Guarantee from the successful bidder within the stipulated time period stipulated in DNIE-T.
- 4.7 **FORMAT AND SIGNING OF e-TENDER:**
 - 4.7.1 The bid must contain the name, residence and places of business of the persons making the e-tender and must be signed and sealed by the Bidder with his usual signature. The name and designations of all persons signing should be typed or printed below the signature.
 - 4.7.2 e-tender by Corporation/ Company must be signed with the legal name of the Corporation/ Company/Firm by the "President", "Managing Director" or by the "Secretary" or other designation or a person duly authorized.
 - 4.7.3 The downloaded copy of the e-tender shall be signed by the Bidder or a person duly authorized. A letter of authorization shall be submitted along with power-of-attorney. All the pages of the bid shall be initialled by the person or persons signing the e-tender.
 - 4.7.4 The bid shall contain no interlineations, erasures or overwriting except as necessary to correct errors made by the Bidder in which case such corrections shall be initialled by the person or persons signing the e-tender.


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SECTION-5 UPLOADING OF e-TENDER

- 5.1 Bid should be uploaded online in e-procurement portal **<https://tripuratenders.gov.in>**.
- 5.2 The tender must be complete in all technical and commercial respect and should contain requisite certificate, drawings, informative literature etc. as required in the specification.
- 5.3 First part **(PART-A)** should contain technical specification, brochure literature etc. All parts of tender documents except price bid should be uploaded as per e-procurement mode within due date and time. Scanned copy of documents as specified in DNIE-T should be uploaded.
- 5.4 The Bidder should submit price bid in Second part. Second part **(PART-B)** should contain price bid only and should be uploaded as per e-procurement mode within due date and time. Anything in regard of financial condition, payment terms, rebate etc. mentioned in price bid may make the tender invalid. Therefore, it is in the interest of the Bidder not to write anything extra except price.
- 5.5 The original copy of uploaded document i.e. First part **(PART-A)** is not required to be submitted to TREDA. However, if it is required so, may be submitted on getting letter from TREDA.
- 5.6 **DEADLINE FOR SUBMISSION OF BIDS:** Bids must be uploaded by the bidder in e-procurement portal **<https://tripuratenders.gov.in>** on or before **24/04/2020 upto 03:30 PM.**

SECTION - 6: e-TENDER OPENING AND EVALUATION

- 6.1 **OPENING OF e-TENDER:** The procedure of opening of the e-tender shall be as under:
- 6.1.1 **First part (PART-A)** i.e. Technical bid of the tender would be opened online by TREDa on **24/04/2020 at 04:00 PM** in the office of the Director General & CEO, TREDa, Vigyan Bhawan, Gorkhabasti, Agartala, West Tripura District, Pin – 799006. Bidders can view the opening of tender through e-procurement portal **<https://tripuratenders.gov.in>**.
- 6.1.2 **Second Part (PART-B)** containing Price Bid shall be opened (after obtaining clarifications and establishing technical suitability of the offer) as per schedule. Second part (PART B) of only those Bidders shall be opened whose first part (PART-A, technical bid) is found substantially responsive as per terms & conditions of DNIE-T and evaluated as technically qualified.
- 6.1.3 The date of opening of Price bid of technically qualified bidders would be intimated through e-procurement portal **<https://tripuratenders.gov.in>**.
- 6.2 **CLARIFICATION ON SUBMITTED e-TENDER DOCUMENT:**
- 6.2.1 During the process of evaluation of the tender (Technical & Price bid), TREDa at its discretion may ask the bidder for a clarification of his tender either in written or fixing meeting inviting bidders at TREDa Office, Agartala. The request for clarification and the response shall be in writing & in English only.
- 6.2.2 Any query regarding any clarification required by TREDa on the information submitted by the bidder, must be replied by the bidder within the allowed time schedule.
- 6.3 TREDa reserves the right to interpret the Bid submitted by the Bidder in accordance with the provisions of this document and make its own judgment regarding the interpretation of the same. In this regard TREDa shall have no liability towards any Bidder and no Bidder shall have any recourse to TREDa with respect to the selection process. TREDa shall evaluate the Bids using the evaluation process specified in this document or as amended, at its sole discretion. TREDa's decision in this regard shall be final and binding on the Bidders.

SECTION-7: PROCEDURE FOR FINALISATION OF BID

7.1 THE PROCEDURE FOR FINALIZATION OF BID WOULD BE AS FOLLOWS:

- 7.1.1 First the Technical bids shall be opened and evaluated by Tender Evaluation Committee of TREDA.
- 7.1.2 Then the price bid of technically qualified bidders shall be opened.
- 7.1.3 Overall lowest evaluated rate (L1) shall be considered as the rate for awarding the Contract.

7.2 FINALIZATION OF EMPANELMENT:


- 7.2.1 The lowest rates as evaluated (and in turn approved by TREDA) would be the "Approved Rate".
 - 7.2.2 L1, the lowest bidder will be declared as the successful bidder. 60% of the quantity shall be allocated to the L1 bidder.
 - 7.2.3 For balance 40% allocation (after allocating the quantity to L1 bidder), TREDA may offer Approved Lowest rate (L1 rate) to L2 bidder and may allocate the balance quantity (subject to matching of price of L1 by the bidder) as mentioned above.
 - 7.2.4 If L2 bidder does not match with L1 rates, TREDA may offer Approved Lowest rate (L1 rate) to L3 bidder and may allocate the balance quantity (subject to matching of price of L1 by the bidder) as mentioned above.
- 7.3 Decision of TREDA for allocation of quantity will be final & binding on the bidders.
- 7.4 TREDA reserves the right at the time of awarding the contract to increase or decrease upto 25% of tendered quantity and locations without any change in price or other terms and conditions.
- 7.5 Priority Locations (Health establishments) will be decided by TREDA and successful bidder has to comply with the above decision of TREDA for execution of work accordingly.
- 7.6 **VALIDITY OF TENDER & FINALIZED RATE:** The Approved L1 rates will be valid for 12 (twelve) months from the date of issue of Letter of Award (LoA). However, the validity of L1 rates may be extended on mutual agreement between TREDA & the successful bidder for another period of 6(six) months.

7.7 LETTER OF AWARD (LoA):

- 7.7.1 After receipt of Performance Security (Performance Bank Guarantee) from successful bidder, TREDA will notify the successful bidder in writing through issuing Letter of Award (LoA) either through scanned e-mail or through registered / speed post / courier.
- 7.7.2 TREDA will issue LoA in phased manner with minimum ordered quantity will be of 240 nos. battery.
- 7.7.3 The LoA will constitute the formation of the contract and the successful bidder has to return the duplicate copy of the LoA with duly signed as acceptance of LoA within 10 (ten) days, otherwise LoA will be deemed to be accepted by the successful bidder on whom the award is given.
- 7.7.4 The Successful Bidder shall not assign or make over the work, the benefit or burden thereof to any other person or persons or body corporate for the execution of the contract or any part thereof without the prior written consent of TREDA. TREDA reserves its right to cancel the Letter of Award (LoA) either in part or full, if this condition is violated.
- 7.7.5 **LoA will be uploaded in e-procurement portal <https://tripuratenders.gov.in> only after receipt of "Performance Bank Guarantee" for release of EMD to all the bidders.**

7.8 CONTRACT AGREEMENT:

SIGNATURE OF THE BIDDER WITH SEAL & DATE

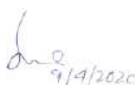

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- 7.8.1 A contract agreement for execution of the work shall be signed by the successful bidder with TREDA within 20 (twenty) days of issuance of Letter of Award (LoA) by TREDA.
- 7.8.2 Within 15 (fifteen) days from the date of issue of Letter of Award (LoA), successful bidder has to submit "Performance Bank Guarantee" as Performance Security as per Clause No. 2.11 of SECTION 2 of the DNle-T.
- 7.8.3 Successful bidder has to submit the Original signed Bid Document uploaded in e-procurement portal along with submission of "Performance Bank Guarantee".
- 7.8.4 In case agreement is not executed within the stipulated time, the Performance Bank Guarantee will be forfeited.
- 7.8.5 Successful bidder is to make in his own cost two original copies of Contract Agreement containing Contract Agreement on Non-judicial Stamp Paper of Rs. 100/-, LoA, Original signed copies of tender document comprising of Technical bid & Price Bid along with relevant documents which are to be jointly signed by TREDA & the successful bidder within 20 (twenty) days from the receipt of the LoA.
- 7.8.6 Five more copies of Contract Agreement are to be submitted by the successful bidder to TREDA at the cost of the successful bidder.
- 7.8.7 The denial of the successful bidder to undertake the work after issue of Letter of Award (LoA) shall be treated as breach of contract and TREDA may forfeit Performance Bank Guarantee (PBG) amount submitted by successful bidder.
- 7.9 **RIGHT TO VARY QUANTITIES:** The authority reserves the right of awarding the work in a phased manner. TREDA may increase or decrease @ 25% of the total tendered quantity at the time of award of contract or within the validity of tender as per approved rates, technical specifications, terms & conditions.

PART – 3: GENERAL CONDITION OF THE CONTRACT

1 DEFINITIONS:

- 1.1 **“TENDERING AUTHORITY”** shall mean the undersigned i.e. the Joint Director, Tripura Renewable Energy Development Agency, A constituent organization of Department of Power, Govt. of Tripura with its Head office at Vigyan Bhawan, 2nd Floor, Pandit Nehru Complex, Gorkhabasti, Agartala, West Tripura District, Pin: 799006.
- 1.2 **“TREDA”** shall mean The Director General & Chief Executive Officer or his representative of “Tripura Renewable Energy Development Agency, A constituent organization of Department of Power, Govt. of Tripura” with its Head Office at VigyanBhawan, 2nd Floor, Pandit Nehru Complex, Gorkhabasti, Agartala, West Tripura District and shall also include its successors in interest and assignees.
- 1.3 The **“CONTRACTOR”** or **“SUCCESSFUL BIDDER”** shall mean shall mean the Firm/ Person (whose tender has been accepted by TREDA) and shall include his legal representatives, successor in interest and assignees.
- 1.4 The **“CONTRACT”** shall mean “Supply, erection, testing and commissioning of Battery Bank and Battery Rack of existing Solar PV Power Plants on turn-key basis including Warranty / Guarantee and Annual Maintenance Contract for 5 (five) years from the date of commissioning in Health Establishments in the State of Tripura from the date of commissioning and shall be valid till the completion of all related works.
- 1.5 **“ANNUAL MAINTENANCE CONTRACT (AMC)”** means routine and on-call maintenance of the systems including supply of all spare parts as required for reliable operation of the systems for 5 (five) years Warranty / Guarantee period.
- 1.6 **“BIS”** shall mean specifications of Bureau of Indian Standards (BIS);
- 1.7 **“IEC”** shall mean specifications of International Electro-technical Commission;
- 1.8 **“Electricity Act 2003”** shall mean the Electricity Act, 2003 and any rules, amendments, regulation, notifications, guidelines or policies issued there under from time to time,
- 1.9 **“CEA”** shall mean Central Electricity Authority.
- 1.10 **“Bids”** shall mean the Technical Bid and the Price Bid submitted by the Bidder electronically at the prescribed web portal, in response to the e-bid document, in accordance with the terms and conditions hereof;
- 1.11 **“Bid Deadline”** shall mean the last date and time for submission of Bid in response to the DNIE-T and as may have been extended in accordance with the e-bid document;
- 1.12 **“Bidder”** shall mean a Bidding Company complying with the provisions of **SECTION 3**;
- 1.13 **“Commissioning”** means successful operation of the system by the Contractor, for the purpose of carrying out Performance Test(s) as defined in DNIE-T.
- 1.14 **“Completion of work”** means the Project / Works has been completed operationally, structurally & Commissioning has been attained as per Technical Specifications as per DNIE-T.
- 1.15 **“Electricity”** means the electrical energy in kilowatt hours;
- 1.16 **“Price Bid”** shall mean the e-Bid, containing the Bidder’s quoted cost for



- various capacities of Battery Banks in the **PART -B** of the e-bid document;
- 1.17 **“EPC”** shall mean engineering, procurement and construction of a plant or facility with obligation to meet minimum performance standards along with requisite warranties for the plant or facility.
- 1.18 **“Plant”** shall mean solar photovoltaic power generation plants implemented on the individual site;
- 1.19 **“PV”** shall mean photovoltaic;
- 1.20 **“Security Deposit”** shall mean the bank guarantee to be provided from a Selected Bidder to the TREDA in accordance with the prescribed Format;
- 1.21 **“Wp”** shall mean Watt Peak.
- 2** The agreement shall be rate contract basis valid for 12 (twelve) months. All the allocated work shall be completed on turnkey basis within 6 (six) months from the date of issue of Letter of Award (LoA) on turn-key basis. However “TREDA” may in case of urgency ask the bidder to complete the work earlier, with the mutual consent of the contractor/ bidder.
- 3** In case the contractor/ bidder fails to execute the said work within stipulated time, “TREDA” will be at liberty to get the work executed from the open market without calling any tender/e-tender and without any notice to the contractor/ bidder, at the risk and cost of the contractor/ bidder. Any additional cost incurred by “TREDA” shall be recovered from the contractor/ bidder. If the cost of executing the work as aforesaid shall exceed the balance due to the contractor/ bidder, and the contractor/ bidder fails to make good the additional cost, “TREDA” may realize it from the contractor/ bidders’ pending claims (PBG), Additional Performance Security or in any lawful manner.
- 4** That on the request of the contractor/ bidder and also in the interest of the organization, “TREDA” is authorized to extend the validity of the agreement, subject to that the request of the contractor/ bidder (with proof of evidence of such delay) is received before the expiry of the agreement period, or any extended period granted to the contractor/ bidder. Maximum period of extension shall be 60 (sixty) days on the same terms and conditions as contained in this agreement.
- 5** The relevant clauses, terms & conditions of Agreement shall remain valid upto the date of completion as per Letter of Award (LoA) or the extended period granted by TREDA.
- 6** It will be the sole responsibility of the contractor/ bidder, to execute orders placed as per time schedule, and to ensure quality parameters, specifications and other requirements provided in the e-tender document and as per agreement.
- 7** In the interest of the work and the programme, agreement executed between the contractor/bidder and the “TREDA” may be extended to a mutually agreed period, if the need so arises. It shall be sole responsibility of the contractor/ bidder to get verified the quality & quantity of the supplied material at the site of delivery.
- 8 TEST CERTIFICATES / BIS CERTIFICATE:**
- 8.1 The bidders are required to submit test certificates of Tubular GEL OR AGM VRLA Battery from one of the MNRE approved/IEC/NABL Accredited Test Laboratories / BIS Certificate in compliance with the specifications laid down at PART - 4 of this DNIE-T.
- OR**
- The bidders are required to submit test certificates of Tubular GEL OR AGM VRLA Battery from one of the MNRE approved/IEC/NABL Accredited Test Laboratories / BIS Certificate in compliance with the specifications laid down at PART - 4 of this DNIE-T within 30 (thirty) days from the issue of the

Letter of Award (LoA). Declaration in this regard in the letter head of the bidder should be uploaded along with the technical bid.

- 8.2 Test Certificate issued during 2016-17 or later and valid as on the date of publication of the DNIE-T will only be considered.
- 8.3 Test Reports should be in compliance with the IEC/IS Standards given at PART – 7 of this DNIE-T.
- 8.4 Any bid received without the test certificates/reports / BIS Certificate OR Declaration as mentioned above will be summarily rejected for non-responsive to the tender condition.


9 SPECIFICATIONS: General specifications of the Battery are given at PART - 4 of this DNIE-T. If there is any left out specifications, shall be as per the latest MNRE Guidelines for Off-grid and Decentralized Solar PV Application Programme.

10 SUPPLY OF MATERIALS:

- 10.1 It is a turn-key job, as such no extra payments against any unforeseen items / works required to complete the job will be paid/allowed. The successful bidder should be responsible for packing, forwarding and dispatching, insurance and safe delivery of materials and installation & commissioning including proper civil works, storage & handling as required at specific sites at their quoted price. Temporary storage of materials during transit or at site shall be the responsibility of the successful bidder at his risk and cost.
- 10.2 The Letter of Award (LoA) for the works may be placed with the successful bidder by TREDA in phases or in full at the discretion of TREDA. However, utmost care will be taken by TREDA to place order with the successful bidder at an economic scale considering transport of the materials.
- 10.3 Delivery of the components at site shall commence from 90th day and the work should be completed within 120th day from the date of issue of the Letter of Award (LoA). The date of issue of Letter of Award (LoA) would be considered as zero date.
- 10.4 Maker of the Battery will be mentioned in the Letter of Award (LoA) as per valid test report / BIS Certificate submitted alongwith the Technical bid or through subsequent communications after receipt of valid test reports / BIS Certificates from the successful bidder. Successful bidder is to supply the approved components as specified in the LoA / subsequent letters.
- 10.5 Any delay in delivery except forced majeure shall be viewed seriously and may be linked with LD as found deem fit by TREDA.
- 10.6 The batteries are to be supplied, installed & commissioned at health establishments within the state of Tripura at the cost & risk of the successful bidder. TREDA/Users will not provide any transit store during supply / execution of work.
- 10.7 The maintenance of the batteries may also be taken up by the contractor/bidder after expiry of warranty/guarantee and 5 years of Annual Maintenance Contract period on mutually agreed terms & conditions.

11 WORK EXECUTION:

- 11.1 PROJECT MANAGER: TREDA shall appoint & Notify the successful bidder to whom LoA is issued in writing name of the Project Manager. The Project Manager shall represent & act for the TREDA at all times during the execution of the contract.
- 11.2 CONTRACTOR'S REPRESENTATIVE / CONSTRUCTION MANAGER: Within 15 (fifteen) days of the issue of LoA, the successful bidder shall appoint the bidder's representative and shall request the TREDA in writing to approve the person so appointed. The bidder's representative shall represent and act for the bidder at all time during the contract

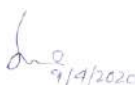

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period. All Notices, instructions & all other communication made by TRED A or the PROJECT MANAGER shall be given to the bidder's representative. The bidder shall not revoke the appointment of bidder's representative without the prior written consent of TRED A.

- 11.3 From the commencement of installation of the Batteries at site until operational acceptance, the bidder's representative shall supervise all work done at site and shall be present at site throughout normal working hours except when on leave, sick or absent for reasons connected with the proper performance of the contractor.
- 11.4 In absence of Contractor's representative, as mentioned above, a suitable person shall be appointed to act as his/her deputy.
- 11.5 TRED A may by Notice to the bidder object to any representative / person employed by the bidder in execution of the contract, who in the reasonable opinion of TRED A may behave inappropriately, may be incompetent or negligent or may commit serious breach of site regulations provided under the Contract. The TRED A shall provide evidence of the same whereupon the bidder shall remove such person from the site and promptly appoint a replacement.

12 WORK PROGRAMME:

- 12.1 CONTRACTOR'S ORGANIZATION: The successful bidder shall provide TRED A a chart showing the proposed organization to be established for carrying out the work within 21 (twenty one) days from the date of issue of LoA. The chart shall include the identities of the key personnel to be employed mentioning their roles & responsibilities.
- 12.2 PROGRAMME OF PERFORMANCE: Within 28 (twenty eight) days after the date of issue of LoA, the bidder shall prepare & submit to TRED A for approval, a detailed programme of performance of the contract, made in form of **PERT Network** and showing the sequence in which it proposes to design, manufacture, transport, assemble, fitting, fixing and commission the Batteries to enable him to execute the contract in accordance with the programme and to achieve completion & acceptance of the component by TRED A in accordance with the contract. The PERT Network submitted showing the time schedule in accordance with the period specified in the contract shall be approved by TRED A.
- 12.3 PROGRESS REPORT: The TRED A will monitor progress of all activities specified in the PERT Network and the bidder shall supply a progress report to TRED A in every week or as decided by Project Manager. The progress report shall be in a form acceptable to TRED A and shall also indicate completion achieved compared with planned completion for each activity and where any activity is behind the programme, giving comments & likely consequence and stating corrective actions being taken.
- 12.4 **WORK PROCEDURE:**
 - 12.4.1 The contract shall be executed in accordance with the contract documents.
 - 12.4.2 Priority Locations (Health establishments) will be decided by TRED A and successful bidder has to comply with the above decision of TRED A for execution of work accordingly.
 - 12.4.3 TRED A will assist during re-commissioning of SPV Power Plants after successful installation of Battery Bank with accessories and interconnection of DCDB/PCU.



12.4.4 The bidder shall be required to attend site progress review meeting organised by TRED A or authorised representative. The deliberations in the meetings shall inter alia include progress of work, daily / weekly programme (Including details of manpower, tools & plants deployed by the bidder vis-a-vis agreed schedule, inputs to be provided by TRED A, delays, if any and recovery programme, specific hindrances to work and instruction by TRED A). The Minutes of meeting shall be recorded for reference.

13 COMPLETION TIME: Time of completion for design, manufacture, supply, fitting, fixing, testing and commissioning of Battery Bank including Battery Rack at sites on turn-key basis shall be 120 (one hundred twenty) days from the date of issue of LoA.

14 COMPLETION TIME GUARANTEE: If the bidder fails to attain completion of work or any part thereof within the time for completion or any extension thereof, the successful bidder on whom LoA is made, the bidder shall pay to TRED A Liquidated Damages (LD) in the amount computed at the rates specified below. However, payment of LD, shall not in any way relieve the bidder on whom award is made from any of its obligations to complete the work or from any other obligations and liabilities under the contract.

15 LIQUIDATED DAMAGES:

15.1 In case of any delay in the execution of the order or delay in maintenance beyond the stipulated time schedule decided including any extension permitted in writing, TRED A reserves the right to recover from the bidder a sum equivalent to 0.5% of the value of the delayed equipment installation or on the unexecuted portion of the work for each week of the delay and part thereof subject to a maximum of 5% of the total value of the contract.

15.2 Alternatively, TRED A reserves the right to purchase of the material and completion of the works including maintenance from elsewhere at the sole risk and cost of the successful bidder/ contractor and recover all such extra cost incurred by TRED A in procuring the material from resources available including EMD/Bid security/ encashment of the Performance Bank Guarantee / Additional Performance Security or any other sources etc. Further, if any extra cost is incurred by TRED A due to delay in work completion by the party beyond the completion time as per LoA, the same shall be recovered from the successful bidder's Invoice/EMD/PBG/ Additional Performance Security etc.

15.3 TRED A may cancel the order completely or partly without prejudice to his right under the alternatives mentioned above.

16 The contractor/ bidder shall have to comply with all the rules, regulations, laws and by-laws for the time being in force and the instructions if any, of the organization, in whose premises the work has to be done. "TRED A" shall have no liability in this regard.

17 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.

17.1 The term force majeure shall 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 as such by the Director General, TREDA, whose decision shall be final and binding.

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

18 LEGAL CASE: All disputes are to be settled within the jurisdiction of High Court of Tripura, Agartala.

19 SUPERVISION / EXECUTION OF WORKS: The works should be done as per direction of Project Manager, Tripura Renewable Energy Development Agency. TREDA shall have at all reasonable time access to the works being carried out by the contractor/ bidder under the contract. All the work shall be carried out by the contractor/bidder to the satisfaction of TREDA.

20 The contractor/ bidder shall not, without the consent in writing of TREDA, transfer, assign or sublet the work under the contract or any substantial part thereof to any other party.

21 If any question, dispute or difference what so ever shall arises between TREDA and the contractor/ bidder, in the connection with the agreement except as to matters, the decisions for which have been specifically provided, either party may forthwith give to the other notice in writing of existence of such question, dispute or difference and the same shall be referred to the sole arbitration of the Principal Secretary/Secretary, Power Department, Govt of Tripura or a person nominated by him not below the rank of Secretary. This reference shall be governed by the Indian Arbitration and Conciliation Act 1996, and the rules made there under. The award in such arbitration shall be final and binding on both proceedings unless the TREDA or the arbitrator directs otherwise.

22 TREDA may at any time by notice in writing to the contractor/ bidder either stops the work all together or reduces or cut it down. If the work is stopped all together, the contractor/bidder will only be paid for work done and expenses distinctly incurred by him as on preparation or the execution of the work up to the date on which such notice is received by him. Such expenses shall be assessed by TREDA, whose decision shall be final and bidding on the contractor/ bidder. If the work is cut down the contractor/ bidder will not be paid any compensation what so ever for the loss or profit which he might have made if he had been allowed to complete all the work included in the contract.

23 EXPENSES OF AGREEMENT: A formal agreement shall be entered into between TREDA and the contractor/ bidder for the proper fulfilment of the contract. The expenses of completing and stamping of the agreement shall be paid by the successful bidder.


24 INSPECTION AND TESTING OF MATERIALS:

24.1 Prior to placing formal order, pre inspection of the manufacturing unit of the bidder eligible for getting the work may be made by the officials of TREDA.

24.2 All materials / equipments manufactured by the bidder against LoA shall be subject to inspection, check and / or test by TREDA at all stages and place, before, during and after the manufacture. All these tests shall be carried out as per technical specification and bidder shall submit relevant test reports.

24.3 The materials will be despatched / installed by the successful bidder after pre-despatch inspection by the Director General & CEO, TREDA or his representative at the factory /works of the successful bidder as per DNIE-T specifications and acceptance of the same.

24.4 The successful bidder shall provide without any extra charge, all materials, tools, testing equipments, labour and assistance of every kind which the


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- inspecting officer may consider necessary for any test or examination which he may require to be made on the successful bidder's premises or at site.
- 24.5 TRED A can also get the components of the systems tested from any MNRE approved / IEC / NABL Accredited Test centre / laboratory and the expenses shall be borne by the successful bidder.
- 24.6 All the expenses for the inspection of gadgets (At the bidder's premises / manufacturing unit / site) by the TRED A's representatives like to & fro air fare, boarding and lodging charges etc. will have to be borne by the successful bidder.
- 24.7 The successful bidder should not despatch Batteries etc. to site without getting despatch clearance of the same from TRED A.
- 24.8 If upon deliver whether inspected and approved earlier or otherwise, the materials / equipment is not in conformity with the specification, the same shall be rejected by TRED A and notification to this effect will be issued to the bidder normally within 7 (seven) days from the date of delivery of materials at site / work.
- 24.9 The bidder shall arrange removal of the rejected items within 15 (fifteen) days from the date of notification and take necessary action for repairs / modification etc. or for replacement at the cost & risk of the bidder.


25 PACKING FORWARDING:

- 25.1 Contractor/ bidders, wherever applicable, shall after proper painting, pack and crate all the equipments in such a manner as to protect them from deterioration and damage during rail and road transportation to the site and storage at the site till time of installation. Contractor/bidder shall be sole responsible for all damage due to improper packing.
- 25.2 The contractor/ bidder shall inform the TRED A of the date of each shipment from his works, and the expected date of arrival at the site for the information of the TRED A Project Manager at least 7 days in advance.

26 RESPONSIBILITY OF TRANSPORTATION AND STORES: Successful bidder should be solely responsible for stores in transit & installation. Any legal interference of Police / Sales tax / Income tax / Transport / Any other Govt. Agencies will be faced by successful bidder. The transportation delay / non availability of train / truck etc. will never be considered by the tendering authority as reason of delay to supply and naturally no extension of delivery period will be granted on this account.

27 INSURANCE:

- 27.1 The Bidder shall be responsible and take an Insurance Policy for transit-cum-storage-cum-erection for all the materials to cover all risks and liabilities for supply of materials on site basis, storage of materials at site, erection, testing and commissioning. The bidder shall also take appropriate insurance during AMC period.
- 27.2 The Bidder shall also take insurance for Third Party Liability covering loss of human life, engineers and workmen and also covering the risks of damage to the third party/material/equipment/properties during execution of the Contract. Before commencement of the work, the Bidder will ensure that all its employees and representatives are covered by suitable insurance against any damage, loss, injury or death arising out of the execution of the work or in carrying out the Contract. Liquidation, Death, Bankruptcy etc., shall be the responsibility of bidder.
- 27.3 In case of any loss or damage or pilferage or theft or fire accident or combination of the said incidents etc. under the coverage of insurance, the Contractor shall lodge the claim as per rules of insurance. Any FIR required


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to be lodged to local Police Station shall be the responsibility of the successful bidder.

27.4 The bidder shall arrange to supply/rectify/recover the materials even if the claim is unsettled for timely completion of the Project. The final financial settlement with the insurance company shall be rested upon the Contractor.

27.5 Insurance as applicable during operation of Project for covering all risks against any mishap to its workmen. The TREDA/User will not be responsible for any such loss or mishap. All other insurances like, insurance against theft and acts of GOD, as required for AMC of the plant and to indemnify the TREDA/User equipment/ material and resources shall be borne by the contractor. Fire insurance is to be arranged by the Contractor up to the five years of AMC of the Contract.

28 TERMINATION FOR INSOLVENCY: TREDA may at any time terminate the contract by giving written notice to the contractor/bidder without compensation to the contractor/ bidder, if it becomes bankrupt or otherwise insolvent, provided that such termination will not prejudice or affect any right of action or remedy, which has accrued or will accrue thereafter to the TREDA.

29 TERMINATION FOR CONVENIENCE: The TREDA, may by written notice sent to the contractor/ bidder, terminate the contract, in whole or in part at any time for its convenience. The notice of termination shall specify that termination is for the purchaser's convenience in the interest of TREDA.

30 APPLICABLE LAW: The contractor/ bidder shall be interpreted in accordance with the laws of the purchaser's country i.e. India. The station of TREDA Headquarter at Agartala shall have exclusive jurisdiction in all matters arising under this contract.

31 CLARIFICATIONS ON DNIE-T:

31.1 The bidder(s) requires any clarifications on any issue regarding the DNIE-T including in particular, issues raised in writing as per **FORMAT 7** and submitted by the bidders on or before **16/04/2020 within 5:30 PM through e-mail: tredaagartala@gmail.com.**

31.2 The decision of TREDA on the clarifications / queries received within due time will be communicated to the bidders through e-mail or through e-procurement portal on **18/04/2020 by 5:30 PM.**

31.3 TREDA is not under any obligation to entertain/respond to suggestions made or to incorporate modifications sought for.

31.4 TREDA will not entertain or respond to bidders' queries and clarifications received after the deadline set for seeking clarifications.

32 NOTICE:

32.1 Any notice given by one party to the other pursuant to the contract shall be sent in writing, soft copy should be forwarded through e-mail & hard copy through Speed Post / Courier to the address specified for that purpose.

32.2 A notice shall be effective when delivered or on the notice's effective date, whichever is later.

33 OTHERS:

33.1 The Contractor/ bidder in consultation with concerned Project Manager of TREDA will conduct training programme for users, focusing on main features, operation and maintenance of the batteries.

33.2 It shall be the sole responsibility of the contractor/ bidder to get verified the quality & quantity of the supplied material at the site of delivery.

34 POST COMMISSIONING ACTIVITIES: On completion of work, the contractor/ bidder shall submit commissioning report (Minimum 3 copies), all the documents, test reports etc. related to the execution of contract.

35 PAYMENT & OTHER FINANCIAL TERMS:

- 35.1 No advance payment will be made.
- 35.2 Contractor shall prefer 100% payment against the supply, installation, successful & satisfactory commissioning of Battery Banks in all respect and on submission of Commissioning Report.
- 35.2.1 Out of which 90% payment will be released after statutory deductions.
- 35.2.2 Balance 10% amount will be retained as Additional Performance Security which will be released in phased manner @ 2% per year on pro-rata basis at the end of each year of the Guarantee / warranty period on satisfactory performance of Battery Banks after statutory deductions.
- 35.3 Payment towards 5 (five) years Annual Maintenance Contract (AMC):
- 35.3.1 Payment of AMC shall be released on yearly basis at the end of every year from the date of commissioning of the Battery Banks on the basis of bidder performance & successful completion of each year as per PART 5 of the DNle-T.
- 35.3.2 Bidder shall raise Plant wise Invoice along with submission of Monthly & Yearly maintenance Report as per format specified at Clause No. 4 of PART 5 of the DNle-T.
- 35.4 Running bills may be considered for payment on successful commissioning of at least 25% of the PO quantity.
- 35.5 All payments shall be made in Indian Rupees through NEFT/RTGS only for which successful bidder has to submit Bank Details as and when asked for.

36 PROJECT INSPECTION:


- 36.1 Project(s) shall be inspected by the Project Manager, TREDA as per the checklist requirement for release of payment.
- 36.2 TREDA reserves the right to do sample inspection checks of the Batteries commissioned by the Bidder.
- 36.3 TREDA may also depute a technical person(s) from its list of empanelled experts for inspection, Third party verification, monitoring of system installed to oversee, the implementation as per required standards and also to visit the manufactures facilities to check the quality of products as well as to visit the system integrators to assess their technical capabilities as and when required.

37 OPERATION OF THE BATTERY BANK: The Battery Bank shall be deemed to be commissioned after 90 (ninety) hours of trouble free operation.

38 COMPLIANCE WITH LABOUR REGULATIONS: During execution of the Contract, the successful bidder shall abide at all times by all existing labour enactments and rules made there under, regulations, notifications and bye laws of the State Government or Central Government or local authority and any other labour law (including rules), regulations, byelaws that may be passed or notification that may be issued under any labour law in future either by the State Government or the Central Government or the local authority.

39 STATUTORY RESPONSIBILITY:

- 39.1 The entire responsibility and risk relating towards the workforce working at the site, and compliance of different statutory regulations like Workman Compensation Act, 1923, Employment of Children Act XXVI of 1938 and any enactment or modification of the same Act, Payment of Gratuity Act, 1972, Employees P.F. and Miscellaneous Provision Act, 1952, Maternity Benefit Act, 1948, Contract Labour (Regulation & Abolition) Act, 1970, Minimum Wages Act, 1948, Payment of Wages Act, 1936, Equal Remuneration Act, 1979, Payment of Bonus Act, 1965, Industries Dispute Act, 1947, Industries Employment (Standing Orders) Act, 1946, Trade Union Act, 1926, Child Labour (Prohibition &


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Regulation) Act, 1986, Inter-state Migrant Workmen's (Regulation of Employment & Conditions of Service) Act, 1979, The Building and other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996 and the Cess Act, 1996, Employees State Insurance Corporation (ESIC), Factory Act 1948, Shop and Establishment Act 1948, and other Statutory regulatory bodies shall solely lie with the Contractor/successful Bidder.

- 39.2 The Contractor/ Bidder shall also be solely responsible for payment of wages, provident fund, bonus, retrenchment compensation leave, etc. applicable as per various statutory regulations to their entire workforce.
- 39.3 All equipment, accessories, materials, civil construction & erection works should comply with statutory requirements, IS and IEC standards.
- 39.4 Statutory requirements for working at the site like labour registration, workman compensation policy, ESIC etc. to be complied with by the successful bidder before deployment of resources at the site.
- 39.5 The Contractor / successful Bidder shall obtain required license/registrations, statutory compliances from the State Government or Central Government or local authority.

40 FAMILIARIZATION OF SITES OF INSTALLATION BY THE BIDDER: The intending Bidder shall be deemed to have familiarized with site conditions in Tripura while submitting the Bid. Non-familiarity with the site conditions will not be considered a reason either for extra claims or for not carrying out the works in strict conformity with the technical specifications or for any delay in performance.

41 Any other conditions which are not mentioned in this document but if needed during execution of work shall be as per latest MNRE guidelines.


PART - 4: SCOPE OF WORK & TECHNICAL SPECIFICATIONS

1. SCOPE OF WORK: The scope of work for the successful bidder includes:

- 1.1.** The successful bidder will be intimated priority list of Health Establishments where SPV Plants were installed during issue of LoA. The bidder will have to remove existing battery bank at his own cost & risk and dispose-off the same from that area to enable new battery bank to be installed there.
- 1.2.** The prospective bidder at his own cost may like to visit the respective locations (Health establishments) where SPV Plants were installed and ascertain the present conditions with respect to SPV Module, ACDB, DCDB, Power Conditioning Unit & Battery Bank etc. while submitting the bid. TREDA may ask the successful bidder with regard to the condition of these Power Plants before installation of Battery banks. On getting confirmation from successful bidder to whom LoA is issued, the site of installation will be handed over.
- 1.3.** Supply, erection, testing and commissioning of Battery Bank capacity of 360V DC, 400 AH, Tubular GEL or AGM VRLA Battery, supply of Battery Rack and fitting fixing in existing 25 KWp Solar PV Power Plants on turn-key basis per detail technical specifications mentioned at PART 4 of DNle-T including 5 (five) years Warranty /Guarantee & Annual Maintenance Contract.
- 1.4.** Supply, erection, testing and commissioning of Battery Bank capacity of 180V DC, 400 AH, Tubular GEL or AGM VRLA Battery, supply of Battery Rack and fitting fixing in existing 10 KWp Solar PV Power Plants on turn-key basis as per detail technical specifications mentioned at PART 4 of DNle-T including 5 (five) years Warranty /Guarantee & Annual Maintenance Contract.
- 1.5.** Supply, erection, testing and commissioning of Battery Bank capacity of 96V DC, 400 AH, Tubular GEL or AGM VRLA Battery, supply of Battery Rack and fitting fixing in existing 5 KWp Solar PV Power Plants on turn-key basis as per detail technical specifications mentioned at PART 4 of DNle-T including 5 (five) years Warranty /Guarantee & Annual Maintenance Contract.
- 1.6.** Interconnections of the Battery Bank with DCDB / PCU with ISI marked cables of suitable size, supply of cables & other accessories, connectors etc. as required will be under scope of successful bidder.
- 1.7.** Performance test of the complete system.
- 1.8.** Submission of technical details of Battery etc. and its test report, testing and commissioning report of plant, installed component photographs, and bill of material to TREDA for future reference.
- 1.9.** A leaflet containing the details of operation & maintenance practices, precautions etc. and the details of service centers, particulars of service personals shall be provided to each user / beneficiary and TREDA.

2. TECHNICAL SPECIFICATIONS:

- 2.1.** The batteries shall be supplied & commissioned as per the technical specifications given below, any left out specification will be guided by latest MNRE guidelines for off-grid Solar Applications. Any shortcomings will lead to cancelation of LoA as decided by TREDA and the agreement will be terminated. Competent Authority's decision will be final and binding on the bidder.


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2.2. BATTERY BANK:

2.2.1	Type	Tubular GEL or AGM VRLA Type.
2.2.2	Country of origin	India
2.2.3	Standards	As per relevant IS / BIS Code
2.2.4	Nominal Voltage	2.0 V/cell
2.2.5	End cell voltage	1.85 V/ cell (27 Deg C)
2.2.6	Individual Battery / Cell capacity	400 Ah (at C/10 discharge rate)
2.2.7	No. of total Cells per Battery Bank	2.2.7.1 For 25 KWp Plant : 180 nos. 2.2.7.2 For 10 KWp Plant : 90 nos. 2.2.7.3 For 5 KWp Plant : 48 nos.
2.2.8	Self discharge	4% @ 30 Deg C per month
2.8.9	Charging Efficiency	93% @ 27 Deg DOD (i.e. 80 % SOC)
2.8.10	Battery Capacities	Measured at 27 Deg C
2.8.11	Battery Accessories	As required under relevant IS code
2.8.12	Marking	+ ve & - ve terminal shall be marked boldly on the terminals along with color indication Black- negative Red – positive
2.8.13	Terminals	1 No. of positive 1 No. of negative
2.8.14	Embossing / Lamination	“PIA: TREDA” at front side.


2.3. BATTERY RACK: Batteries of the Battery Bank should be housed in racks of suitable dimensions made of Galvanized MS angle or other suitable and durable material. The racks should be strong enough to bear the load of the batteries. The tiers and rows of the racks for placing the batteries should be made as per site conditions and should facilitate easy monitoring & maintenance of the batteries.

PART 5: DETAILS OF SCOPE OF WARRANTEE/GUARANTEE AND ANNUAL MAINTENANCE CONTRACT (AMC):

1. WARRANTEE/GUARANTEE:

- 1.1 The Batteries including Battery Rack shall be warranted /guaranteed for 5 (five) years for trouble free operation from the date of commissioning. The mechanical structures, batteries including electrical works and overall workmanship must be Warranted / Guaranteed against any manufacturing/ design/ installation defects for a minimum period of 5 (five) years. Materials found damaged during transit or erection shall be replaced by the supplier immediately without waiting for settlement of their claim with their Insurance Company.
- 1.2 The Warrantee/Guarantee shall be against breakages, malfunctions, non-fulfilment of guaranteed performance and breakdowns due to manufacturing defects or defects that may arise due to improper operation of electrical or electronics components of the system but do not include physical damages by end users.
- 1.3 The Warrantee/Guarantee will cover all the materials and components involved in the installation & commissioning of the Batteries by the successful bidder under this contract irrespective of the fact whether these have been manufactured by the successful bidder or not. The decision of TREDA in this regard should be final & binding on successful bidder.
- 1.4 During the warranty / guarantee period, defective/ non-functioning storage batteries etc. shall be repaired / replaced free of cost by the successful bidder at his own cost for proper, sustained & reliable operation of the systems.
- 1.5 In case of any fault in Battery Bank, the fault must be removed within a maximum period of 7 (seven) days from the date of receipt of complain from User/TREDA either through letter or telephonically or e-mail. Failing which, TREDA may make the system functional and the actual expenditure incurred for this will be realized from the Performance Security / Additional Performance Security of the successful bidder. The expenditure towards the repairing of the system(s) determined by TREDA should be final & binding on the successful bidder.
- 1.6 In case of any part or battery to be imported from outside the state, the maximum period for repair should not be more than 15 (fifteen) days. In case the successful bidder fails to repair any fault of the systems within 15 days, TREDA may make the system functional and debit the actual expenditure to the party which will be realized from the Performance Security / Additional Performance Security of the successful bidder and the defaulter bidder will be blacklisted. The expenditure towards the repairing of the system(s) determined by TREDA should be final & binding on the successful bidder.
- 1.7 If the complaint is not rectified within time specified above, additional penalty of Rs. 500/- (Rupees five hundred) per week per plant from the date of non-functioning will be imposed subject to a maximum of Rs. 50,000/-.
- 1.8 Under Force Majeure circumstances, penalty can be waived off.
- 1.9 During the Warranty / Guarantee period, TREDA / District Project Officers of TREDA, / User reserves the right to cross check the performance of the Batteries with the minimum performance levels

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specified at PART 4 of this DNle-T / MNRE latest Guidelines for off-grid and decentralized solar applications.

- 1.10 Warrantee/guarantee Card is to be supplied with each system. The format of Warranty / Guarantee card should get approved from TREDA.

2 ANNUAL MAINTENANCE:

- 2.1 The successful bidder should provide 5 (five) years maintenance of the Batteries from the date of commissioning which shall include corrective & preventive maintenance as well as routine service visit to ensure satisfactory performance of the systems.
- 2.2 Periodic cleaning & check of Batteries shall be carried out by the successful bidder as a part of the routine prevention and breakdown maintenance. Annual Maintenance Guideline, Format for Monthly & Yearly Annual Maintenance Report is given at Clause No. 4 below. The reports should be duly signed by Bidder's Representative / Construction Manager, User & TREDA / respective District Project Manager and are to be submitted to TREDA.
- 2.3 Monthly Maintenance Report as per prescribed format duly filled in and signed by Bidder's representative / Construction Manager, User & TREDA / respective District Project Manager of TREDA shall be submitted within **7th day** of the following month. The Yearly Maintenance Report as per prescribed format duly filled in and signed by Bidder's representative / Construction Manager, User & TREDA / respective District Project Manager of TREDA along with Monthly Maintenance Reports shall be submitted along with Invoice of AMC for processing of payment, failing which, the claim for AMC will not be entertained.
- 2.4 The service personal of the successful bidder shall make monthly routine maintenance visits till the completion period of warranty / guarantee and Annual Maintenance Contract period apart from on-call maintenance for troubleshooting. The successful bidder shall provide site wise Schedule of Monthly visits for routine maintenance. The above schedule shall be submitted at the beginning of each year of AMC for acceptance & approval of TREDA.
- 2.5 The deputed personal shall be in a position to check and test the equipments regularly, so preventive action, if any, could be taken well in advance to save any equipment from damage/outage.
- 2.6 During operation and maintenance period of the Batteries, if there is any loss or damage of any component due to miss management or miss handling or due to any other reasons pertaining to the deputed personal, what-so-ever, the successful bidder shall be responsible for immediate replacement or rectification. The damaged batteries may be repaired or replaced by new batteries.
- 2.7 The maintenance shall include replacement of any component irrespective of whether the defect was a manufacturing defect or due to wear and tear.
- 2.8 Successful bidder is to submit inter changeability certificate for its product supplied for replacement during warranty/guarantee and AMC period and even when it is purchased from open market. In case due to change in technology, the supplied product is not available during warranty / guarantee & AMC period, than the improved version of product can be used in warranty/guarantee and AMC period with same or improved technical parameters or the combination thereof after written communication of TREDA at the same cost & terms and


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conditions. Successful bidder, on whom LoA has been placed, has also to confirm that the prices of improved version of product are not lesser than the original product or its parts in comparison.

- 2.9 TRED A reserves the right to ascertain the extent of damages due to outage of SPV Plant for non functioning of batteries and claim the cost of such damages for non-fulfilment of warranty/guarantee/AMC obligations, apart from forfeiture of 100% of Performance Security with Additional Performance Security deposits in the event of unsatisfactory performance due to lack of maintenance.

3 LOCAL OFFICE / AGENT FOR INSTALLATION, COMMISSION & AFTER SALES SERVICE DURING WARRANTY / GUARANTEE AND ANNUAL MAINTENANCE CONTRACT (AMC) PERIOD:

- 3.1 Successful bidder should establish a local office at Agartala, Tripura and also must have authorized technically equipped agents / dealers preferably at least one in each district of the state with full support of infrastructure & sufficient spare parts as required and skilled technical persons for installation, commissioning & for providing after sales services during the warranty/guarantee and Annual Maintenance Contract period.
- 3.2 The successful bidder shall submit to TRED A the details of Authorized Agent, the name of skilled technical persons with T & P, complete addresses, contact number etc. along with the list of technicians with address and telephonic numbers to the office of the undersigned before commencement of supply of materials.

4 OPERATION AND MAINTENANCE GUIDELINES FOR THE BATTERIES

For the optimal operation of a PV Plant, preventive maintenance must be carried out on a regular basis. All the components should be kept clean. It should be ensured that all the components are fastened well at their due place. Maintenance guidelines for Battery is given below:

A. BATTERY

- A.1. Batteries should remain in dry and ventilated area.
- A.2. Check the battery terminals for any loose connection, corrosion or dust.
- A.3. Check the cable insulating sheath for crack, break or burn. If found damaged, replace the wire.
- A.4. Check for electrolyte leaks and integrity.
- A.5. Check for corrosion of racks / cabinets.
- A.6. Check for ambient temperature.


B. SHUTTING DOWN THE SYSTEM:

- B.1. Disconnect system from all power sources in accordance with instructions for all other components used in the system.
- B.2. Completely cover system modules with an opaque material to prevent electricity from being generated while disconnecting conductors.
- B.3. To the extent possible, system shutdown shall not be done during day time or peak generation period.

C. INSPECTION AND MAINTENANCE SCHEDULE OF BATTERY:

Activity	Description	Interval
Inspection	Inspection General Cleanliness of battery, mounting rack	Monthly
Inspection	Check for corrosion at terminal connectors, racks and cabinet	Monthly
Monitoring	a) Check and record voltage of pilot cell b) Check & record the float voltage across the whole	Monthly

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	battery with accurate digital voltmeter. Compare this reading with the panel voltmeter and adjust the panel voltmeter accordingly.	
Monitoring	Check the temperature of each individual cell and compare readings with initial and all prior temperatures for taking any corrective measures	Quarterly
Monitoring	Check voltage of each individual cell with accurate digital voltmeter	Half yearly
Monitoring	Measure resistance of all connections and compare them with previous readings. Take corrective measures for 20% increase in resistance.	Annually
Documentation	Document all AMC activities in a workbook for verification by TREDA	Continuous

D. MONTHLY MAINTENANCE REPORT:

Month & Year:

Name of Contractor:

LoA reference No.:

Project Capacity:

Particulars of the site:

Activity	Description	Date	Name & Signature of user	Remarks
Monitoring	Check for corrosion at terminals connectors, racks and cabinets			
Monitoring	a) Record voltage of pilot cell b) Record the float voltage across the whole battery with accurate digital voltmeter. Compare this reading with the panel voltmeter and adjust the panel voltmeter if required.			
Documentation	Log records			

E. ANNUAL MAINTENANCE REPORT:Year of maintenance: 1st year / 2nd year / 3rd year / 4th year / 5th year

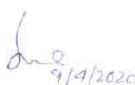
Name of Contractor:

LoA reference No.:

Project Capacity:

Particulars of the site:

Activity	Description	Date	Name & signature of user	Remarks
Monitoring	Measure resistance of all connections and compare them with previous readings. Take corrective measures for 20% increase in resistance			



PART 6: TECHNICAL BID

DNIE-T No.F. 6(158)/TREDA/NCES/20/3919, dated 09/04/2020				
TECHNICAL INFORMATION				
Sl. No.	Description	Inform to be furnished by bidder		
6.1	Battery (2 Volt, 400 AH)	For 25 KWp	For 10 KWp	For 5 KWp
6.1.1	Type of Battery (Tubular GEL OR AGM VRLA)			
6.1.2	Make of the offered cells (Full name should be written)			
6.1.3	Model of the offered cells:			
6.1.4	The type and material of separators			
6.1.5	Material and thickness of container			
6.1.6	Ah efficiency (Min.)			
6.1.7	Watt hour efficiency (Min.)			
6.1.8	End cell voltage at 10 hr. discharge rate			
6.1.9	Short Circuit current of battery bank in Ampere			
6.1.10	Are the offered batteries eco-friendly: YES/NO			

(Signature of Bidder)
with seal & date

SIGNATURE OF THE BIDDER WITH SEAL & DATE

Signature
9/4/2020

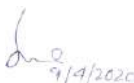
PART – 7: QUALITY CERTIFICATION, STANDARDS AND TESTING FOR BATTERIES:

7.1 Quality certification and standards for battery are essential for the successful implementation of this technology. It is also imperative to put in place an efficient and rigorous monitoring mechanism, adherence to these standards. Hence, components of the work must conform to the relevant standards and certifications given below (as applicable):

7.1.1	Battery	IEC 61427 / IS 16270	Secondary Cells and Batteries for Photovoltaic Energy Systems (PVES)– General Requirements and Methods of Test
		IS:15549:2005:	Stationary Valve Regulated Lead Acid Batteries – specifications
		IEC 60896 – 21 & 22: 2004-02:	Stationary lead-acid batteries – Valve regulated types – Methods of test
7.1.2	Cables	IEC 60227/IS 694, IEC 60502/IS1554 (Part 1 & 2)	General test and measuring method for PVC (Polyvinyl Chloride) insulated cables for working voltage upto and include 1100V, and UV resistant for outdoor installation
		BS EN 50618	Electric cables for photovoltaic systems [BT(DE/NOT)258], mainly for DC cables.

FORMAT - 1**[To be submitted in the letterhead of the bidder]****PART A: GENERAL PARTICULARS OF BIDDER**

a)	Name of Bidder	
b)	Postal Address	
c)	Web site	
d)	Mobile No.	
e)	e-mail address	
f)	Telephone, Telex, Fax No	
g)	Name, designation of the authorized representative of the Bidder to whom all references shall be made	
h)	Mobile No. of authorized representative	
i)	Status of the bidder [Manufacturer / System Integrator / others (Pl. specify)]	
j)	Name and address of the Indian/foreign Collaboration if any	
k)	Have anything/extra other than price of items (as mentioned in price Schedule) been written in the price schedule.	
l)	Have the Bidder ever been debarred by any Govt. Deptt. / Undertaking for undertaking any work? (Upload undertaking)	
m)	Details of offer (please mention number of pages and number of Drawings uploaded)	
n)	Reference of any other information attached by the bidder (please Mention no. of pages & no. of drawings)	

(Signature of Bidder)
with seal & date


FORMAT - 2

[To be submitted in the letterhead of the bidder]

[To be submitted in the letterhead of the bidder including full postal address, telephone, faxes and e-mail address and **should be certified by the practicing CA of the Bidder**]

SCHEDULE OF EXPERIENCE / CREDENTIAL

(Please attach certificates in support from the concerned State Nodal Agency / Govt. Departments / Government Organization, in case of private owner the Joint Commissioning Report should be certified with officer of State Nodal Agency/Govt. Department / Government organization)

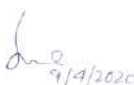
Sl. No.	Type of System (Off-grid/Hybrid/Battery supplied)	Details of system installed / Battery Supplied during 2016-17, 2017-18, 2018-19 and till date of floating of tender.	Year of awarding the contract	Year of completion of work	Name of Deptt. / Nodal Agency/beneficiary for which work was carried out	Size of the work in KW	Cost of work (IN lakhs)	Copy of the Work Order and corresponding Commissioning certificate/ Works Completion Certificate#
A	B	C	D	E	F	G	H	I

Copy of the Work Order(s) and corresponding Commissioning Certificate (s) /Works Completion Certificate (s) should be marked with Annexure numbers before uploading.

(Signature of Bidder)
with seal & date

Certified by CA

SIGNATURE OF THE BIDDER WITH SEAL & DATE



FORMAT 3

[To be submitted in the letterhead of the bidder and should be certified by the practicing CA of the Bidder]

Name of Tender	Supply, erection, testing and commissioning of Battery Bank of existing Solar PV Power Plants on turn-key basis including Warranty / Guarantee and Annual Maintenance Contract for 5 (five) years from the date of commissioning in Health Establishments in the State of Tripura
DNIE-T No.	DNIE-T No.F. 6(158)/TREDA/NCES/20/3919, dated 09/04/2020
Name of bidder	

PART A**ANNUAL TURNOVER DATA FOR LAST 3 YEARS**

Year	Net Worth (Rs. In lakh)	Annual Turnover (Rs. In lakh)
2016-17		
2017-18		
2018-19		
Annual Average		

PART B**INFORMATION ON PROFITABILITY****Profit before Tax data for last 3 years**

Year	Amount (Rs. In lakh)
2016-17	
2017-18	
2018-19	

(Signature of Bidder)
with seal & date

Certified by CA

Signature
9/4/2020

FORMAT 4

POWER OF ATTORNEY

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

Power of Attorney to be provided by the Bidding Company in favour of its representative as evidence of authorized signatory's authority.

Know all men by these presents, We
(Name and address of the registered office of the Bidding Company as applicable) do hereby constitute, appoint and authorize Mr./Ms. (name & residential address) who is presently employed with us and holding the position of..... as our true and lawful attorney, to do in our name and on our behalf, all such acts, deeds and things necessary in connection with or incidental to submission of our Bid for "Supply, erection, testing and commissioning of Battery Bank of existing Solar PV Power Plants on turn-key basis including Warranty / Guarantee and Annual Maintenance Contract for 5 (five) years from the date of commissioning in Health Establishments in the State of Tripura" in response to DNIE-T No.F. 6(158)/TREDA/NCES/20/3919, dated 09/04/2020 issued by Tripura Renewable Energy Development Agency, constituent organization of Deptt. Of Power, Gorkhabasti, Agartala, West Tripura District, Tripura, Pin:799006 including signing and submission of the Bid and all other documents related to the Bid, including but not limited to undertakings, letters, certificates, acceptances, clarifications, guarantees or any other document which the TREDA may require us to submit. The aforesaid Attorney is further authorized for making representations to the TREDA, Agartala and providing information / responses to TREDA, Agartala representing us in all matters before TREDA, Agartala and generally dealing with TREDA, Agartala in all matters in connection with this Bid till the completion of the bidding process as per the terms of the above mentioned DNIE-T.

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

All the terms used herein but not defined shall have the meaning ascribed to such terms under the DNIE-T.

Signed by the within named

..... (Insert the name of the executant company)
through the hand of Mr.duly authorized by the
Board(vide Board resolution No_____) to issue such Power of Attorney


Dated this day of

Accepted

Signature of Attorney

(Name, designation and address of the Attorney)

Attested


9/4/2020

.....
(Signature of the executant)
(Name, designation and address of the executant)


Signature and stamp of Notary of the place of execution Common seal of
..... has been affixed in my/our presence Pursuant to Board of
Director's Resolution dated.....(Board of
Director's Resolution is also enclosed)

WITNESS

i)
(Signature)
Name.....
Designation
ii)
(Signature)
Name.....
Designation

Notes:

The mode of execution of the power of attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executant(s) and the same should be under common seal of the executant affixed in accordance with the applicable procedure. Further, the person whose signatures are to be provided on the power of attorney shall be duly authorized by the executant(s) in this regard.


9/9/2020

FORMAT 5**AUTHORIZATION LETTER OF BIDDER****(To be submitted in the letterhead of the bidder)**

Name of Tender	Supply, erection, testing and commissioning of Battery Bank of existing Solar PV Power Plants on turn-key basis including Warranty / Guarantee and Annual Maintenance Contract for 5 (five) years from the date of commissioning in Health Establishments in the State of Tripura
DNle-T No.	No.F. 6(158)/TREDA/NCES/20/3919, dated 09/04/2020

To**The Joint Director,**

Tripura Renewable Energy Development Agency,
 Deptt. Of Power, Govt. of Tripura,
 Gorkhabasti, Agartala, West Tripura District, Tripura,
 Pin:799006. E-mail: tredaagartala@gmail.com.

<Bidder's Employee Name> _____,
 <Designation> _____ is hereby authorized to sign relevant documents on behalf of the company/ firm in dealing with Bid of reference <Bidder Name, Dept& Date> _____. He is also authorized to attend meetings & submit pre- qualification, technical & commercial information as may be required by you in the course of processing the above said Bid. For the purpose of validation, his/ her verified signatures are as under.

Thanking you,

Verified Signature:

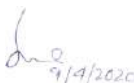
Name of the Bidder: -

Authorised Signatory: -

Seal of the Organization: -

Date:

Place:




FORMAT - 6

AFFIDAVIT – NO BLACK LISTING

In response to the DNIE-T No.F. 6(158)/TREDA/NCES/20/3919, dated 09/04/2020 for “Supply, erection, testing and commissioning of Battery Bank of existing Solar PV Power Plants on turn-key basis including Warranty / Guarantee and Annual Maintenance Contract for 5 (five) years from the date of commissioning in Health Establishments in the State of Tripura” as an owner/ partner/ Director of _____, I/ We hereby declare that presently our Company/ firm _____ is having unblemished record and is not declared ineligible for corrupt & fraudulent practices either indefinitely or for a particular period of time by any State/ Central Government/ PSU.

We further declare that presently our Company/ firm _____ is not blacklisted and not declared ineligible for reasons other than corrupt & fraudulent practices by any State/ Central Government/ PSU on the date of Bid Submission. If this declaration is found to be incorrect then without prejudice to any other action that may be taken, my/ our security may be forfeited in full and the tender if any to the extent accepted may be cancelled.

(Signature of Bidder)
with seal & date


9/9/2020

FORMAT 7

[To be submitted in the letterhead of the bidder including full postal address, telephone, faxes and e-mail address]

FORMAT FOR QUERIES OF BIDDER ON TENDER

Name of Tender	Supply, erection, testing and commissioning of Battery Bank of existing Solar PV Power Plants on turn-key basis including Warranty / Guarantee and Annual Maintenance Contract for 5 (five) years from the date of commissioning in Health Establishments in the State of Tripura			
DNIE-T	DNIE-T No.F. 6(158)/TREDA/NCES/20/3919, dated 09/04/2020			
Tender ID				
Bid Opening Date				
Name of bidder				
Name of contact person from Bidder with address, e-mail and Contact Number				
Sl. No.	Section No. Page No. Clause No. Para No.	Description as per DNIE-T	Queries / Clarifications of the bidder	Remarks
1	Section No. Page No. Clause No. Sub-clause No.			
2	Section No. Page No. Clause No. Sub-clause No.			
3	Section No. Page No. Clause No. Sub-clause No.			

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[NOTE: Clarifications if required may be forwarded in above format to **tredeagartala@gmail.com** within the timeline stipulated in the tender.]

(Signature of Bidder)
with seal & date

Signature
9/4/2020

FORMAT 8

PERFORMANCE SECURITY BOND FORMAT
(MODEL BANK GUARANTEE FORMAT FOR PERFORMANCE SECURITY)

To

The Joint Director,

Tripura Renewable Energy Development Agency,
Deptt. Of Power, Govt. of Tripura,
Gorkhabasti, Agartala, West Tripura District, Tripura,
Pin:799006. E-mail: tredaagartala@gmail.com.

WHEREAS (Name and address of the agency) (Hereinafter called as "The Contractor") has undertaken, in pursuance of Contract / Letter of Allocation (LoA) No., dated for "Supply, erection, testing and commissioning of Battery Bank of existing Solar PV Power Plants on turn-key basis including Warranty / Guarantee and Annual Maintenance Contract for 5 (five) years from the date of commissioning in Health Establishments in the State of Tripura" (Hereinafter called "The Contract").

AND WHEREAS it has been stipulated by you in the said Contract that the Contractor shall have to furnish a Bank Guarantee by a Nationalized Bank having Branches at Agartala, Tripura for the sum specified therein as security for compliance with its obligations in accordance with the Contract.

AND WHEREAS we have agreed to give the Contractor such Bank Guarantee.

NOW THEREFORE, we hereby affirm that we are guarantor and responsible to you, on behalf of the Contractor, up to a total of (amount of guarantee in words and figures), and we undertake to pay you, upon your first written demand declaring the Contractor to be default under the Contract and without cavil or argument, any sum or sums within the limits of (Amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Contractor before presenting us with the demand.

We further agree that no change or addition to or other modifications of the terms of the Contract to be performed there under or of any of the Contract document which may be made between you and the Contractor shall in any way release us from any liability under this guarantee and we hereby waive notice of any such changes, addition or modification.

This guarantee shall be valid until the day of 20.....

Name of Bank:

Branch:


Address:

(Signature of the authorized officer of the Bank)

Name, Designation & Code No.:

Date:

Seal:


9/9/2020

FORMAT 9

**[LETTER OF INTENT (LoI) TO THE L1 BIDDER FOR DEPOSITING PERFORMANCE
BANK GUARANTEE IN LIEU OF EMD RETURN]**

TRIPURA RENEWABLE ENERGY DEVELOPMENT AGENCY

(Power Department, Government of Tripura)

Vigyan Bhawan, Pandit Nehru Complex, Gorkhabasti, Agartala, Tripura

Tele-fax: 0381-2325900, 2326139, email-tredaagartala@gmail.com

No.F. 6(158)/TREDA/NCES/20/_____

Date ____/____/2020

To

M/S _____

SUB: Your bid submitted to this office for rate Contract for Supply, erection, testing and commissioning of Battery Bank of existing Solar PV Power Plants on turn-key basis including Warranty / Guarantee and Annual Maintenance Contract for 5 (five) years from the date of commissioning in Health Establishments in the State of Tripura.

REF : 1. Tender ID No. ____
2. DNIe-T No.F. 6(158)/TREDA/NCES/20/3919, dated 09/04/2020
3. Online bid reference of e-procurement portal:

Sir / Madam,


This is to inform you that, the bid submitted as stated above is under consideration by the appropriate authority subject to your fulfilment of the terms & conditions of the tender and all codal procedures.

You are therefore requested to deposit the **“Performance Bank Guarantee”** for an amount of Rs. _____ (Rupees _____) vide Clause No. _____ at Page ____ on or before ____/____/2020 by 5:30 PM for completion of completion of Pre-Award codal procedures.

Failure to comply with the same shall result to your Bid being cancelled and the EMD deposited with respect to the stated tender will be forfeited. Further your submission of “Performance Bank Guarantee” does not entail you with right to get the order, unless all the other Tender conditions are satisfied with due verification.

Yours faithfully

Authorised Signatory
Tripura Renewable Energy Development Agency


9/4/2020

PART B (PRICE BID)

TENDER INVITING AUTHORITY : Joint Director, Tripura Renewable Energy Development Agency (TREDA), Department of Power, Govt. of Tripura.

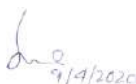
NAME OF ITEM : Supply, erection, testing and commissioning of Battery Bank of existing Solar PV Power Plants on turn-key basis including Warranty / Guarantee and Annual Maintenance Contract for 5 (five) years from the date of commissioning in Health Establishments in the State of Tripura

DNIE-T : DNIE-T No.F. 6(158)/TREDA/NCES/20/3919, dated 09/04/2020

BIDDER NAME :


Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder in Rs. P	GST Amount in Percentage %	GST Amount in INR Auto Calculated	TOTAL AMOUNT Without Taxes Rs. P	TOTAL AMOUNT With Taxes Rs. P	TOTAL AMOUNT In Words
1	SPV Power Plant - 25 KWp								
1.1	Supply, erection, testing and commissioning of Battery Bank capacity of 360V DC, 400 AH, Tubular GEL or AGM VRLA Battery, supply of Battery Rack and fitting fixing in existing 25 KWp Solar PV Power Plants on turn-key basis as per detail technical specifications mentioned at PART 4 of DNIE-T including 5 (five) years Warranty /Guarantee	3	Nos.						

SIGNATURE OF THE BIDDER WITH SEAL & DATE




	with BUY BACK of existing LMLA batteries.								
1.2	Annual Maintenance (O&M) charges of Battery Bank of 25 KWp Solar PV Power Plants for 5 (five) years from the date of commissioning.	3	Nos.						
2	SPV Power Plant - 10 KWp								
2.1	Supply, erection, testing and commissioning of Battery Bank capacity of 180V DC, 400 AH, Tubular GEL or AGM VRLA Battery, supply of Battery Rack and fitting fixing in existing 10 KWp Solar PV Power Plants on turn-key basis as per detail technical specifications mentioned at PART 4 of DNIe-T including 5 (five) years Warranty /Guarantee with BUY BACK of existing LMLA batteries.	13	Nos.						
2.2	Annual Maintenance (O&M) charges of Battery Bank of 10 KWp Solar PV Power Plants for 5 (five) years from the date of commissioning.	13	Nos.						

SIGNATURE OF THE BIDDER WITH SEAL & DATE


 9/4/2020

3	SPV Power Plant - 5 KWp								
3.1	Supply, erection, testing and commissioning of Battery Bank capacity of 96V DC, 400 AH, Tubular GEL or AGM VRLA Battery, supply of Battery Rack and fitting fixing in existing 5 KWp Solar PV Power Plants on turn-key basis as per detail technical specifications mentioned at PART 4 of DNle-T including 5 (five) years Warranty /Guarantee with BUY BACK of existing LMLA batteries.	79	Nos.						
3.2	Annual Maintenance (O&M) charges of Battery Bank of 5 KWp Solar PV Power Plants for 5 (five) years from the date of commissioning.	79	Nos.						


 9/4/2020