



**GOVERNMENT OF ASSAM
DIRECTORATE OF WELFARE OF SCHEDULED CASTES, ASSAM
BLOCK No. 2, HOUSEFED COMPLEX, DISPUR, GUWAHATI-06**

Tender No. DSC/TDR/630/2020/Pt. 27/1 Dated Guwahati the 9th December' 2020

e-tender

**Invitation of TECHNICAL & COMMERCIAL BIDS for
"PV SOLAR HOME LIGHTING SYSTEMS (HLS)"**

BIDDING DOCUMENT

(to be used for furnishing bids by the ELIGIBLE BIDDERS)

TENDER FEE: Rs. 10,000/-

ADDRESS FOR COMMUNICATION:
DIRECTORATE OF WELFARE OF SCHEDULED CASTES, ASSAM,
Block No. 2, 2nd Floor, Housefed Complex,
Beltola-Basistha Road, Last Gate, Dispur, Guwahati-06

E-mail : assamdirectorateofwelfareofsc@gmail.com

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No. DSC/TDR/630/2020/Pt. 27/1

Dated Guwahati the 9th December' 2020

NOTICE INVITING E-TENDER

e-Tenders in two-bid System affixing court fee stamp of Rs. 8.25 only, are invited from manufacturers/ distributors / dealers on Rate Contract Basis for fixation of rates for a period of **1 (One) Year** for "PV SOLAR HOME LIGHTING SYSTEMS (HLS)" for the SC Beneficiaries of Assam, The terms & conditions and details of items to be supplied are described in the Tender Documents.

Sl. No.	Scheduled	Start date	Start time	End date	End time
1	Tender publishing	09/12/2020	02.00 PM	-	-
2	Tender download	09/12/2020	02.00 PM	24/12/2020	02.00 PM
3	Pre- Bid meeting	No Pre-bid meeting will be conducted due to the COVID-19 pandemic. All queries will be submitted through the email id: <u>assamdirectorateofwelfareofsc@gmail.com</u> on or before 14th of December/2020, 11:00 AM			
4	Bid Submission (Both Online & Hard Copy)	14/12/2020	11.00 AM	24/12/2020	02.00 PM
5	Bid Opening	24/12/2020	03.00 PM	-	-

Tender documents may be downloaded from the e-procurement portal viz. <https://assamtenders.gov.in> from 9th of December' 2020 onwards. The Tenders should be submitted through e-procurement portal and hard copies (excluding price bid) of the same should be submitted to the office of the undersigned.

This Tender Notice is subject to receipt of Administrative Approval on Procurement Plan from the Govt.



Director,
Welfare of Scheduled Castes, Assam,
Guwahati-06

Memo no. DSC/TDR/630/2020/Pt. 27/1-A

Dated Guwahati the 9th December' 2020

Copy to:

- 1) The Director, Information & Public Relations, Guwahati. He is requested to publish the above advertisement in at least 3 (Three) widely circulated newspapers.



Director,
Welfare of Scheduled Castes, Assam,
Guwahati-06

**GOVERNMENT OF ASSAM
DIRECTORATE OF WELFARE OF SCHEDULED CASTES, ASSAM
BLOCK No. 2, HOUSEFED COMPLEX, DISPUR, GUWAHATI-06**

NAME OF THE WORK: **SUPPLY & INSTALLATION OF
PV SOLAR HOME LIGHTING SYSTEMS (HLS) TO THE
SC BENEFICIARIES IN THE STATE OF ASSAM FOR A
PERIOD OF 1 (ONE) YEAR**

E-TENDER NOTICE

1. The Director, Welfare of Scheduled Castes, Assam, Guwahati-6 invites e-tenders from the intending and eligible manufacturers/ distributors / dealers for **supply of PV SOLAR HOME LIGHTING SYSTEMS (HLS)** for the SC beneficiaries. The bidders are hereby requested to carefully read the instructions and other clauses furnished herein below before they prepare and submit/upload their tenders
2. The bid document can be downloaded from <https://assamtenders.gov.in>. The Bidder who has downloaded the tender documents containing the details terms and conditions from the website shall upload their tender on-line on the website <https://assamtenders.gov.in> with proof of payment of non-refundable tender fee of Rs.10,000.00 only through crossed Demand Draft / Banker's Cheque drawn in favour of the **Director, Welfare Scheduled Castes, Assam**, payable at Guwahati. The tender should be uploaded on-line before the scheduled date and time of uploading/submission.
3. The bidders shall have to submit the proof of payment of EMD/Bid Security for an amount of **Rs. 5,00,000.00** only in the form of crossed Demand Draft/ Bankers Cheque / FDR that should be payable at Guwahati only.
4. Security Deposit of minimum 5% of the value of contract in the form of crossed Demand Draft/ Bankers Cheque / FDR shall have to be deposited by the bidder (s) whose tender is accepted before signing of Contract Agreement between the Purchaser and the Supplier and subsequent award of the contract to the bidder(s).
5. The Original copy of crossed Demand Draft/Banker's Cheque for Tender fee, the original copy of crossed Demand Draft/Banker's Cheque / FDR for Bid Security /EMD and the hard copy of the technical bid should be submitted to the Director, Welfare of Scheduled Castes, Assam, Guwahati-6 in a sealed cover on or before the last date and time of submission of tender. The cover should be superscripted with the details of the tender.
6. The bidder / manufacturer for the item must mention their full postal address of their registered office with phone number (landline or Mobile as the case may be) and the e-mail id. More than one address shall not be entertained. No sub/additional addresses will be accepted.
7. To participate in this tender process through e-procurement, the bidder (s) should have valid Digital Signature Certificate (DSC) signing and have to register in the portal <https://assamtenders.gov.in> by themselves.
8. Sub-letting of the bid-contract is strictly prohibited.

SECTION- I : QUALIFICATION CRITERIA

1. LAST DATE FOR RECEIPT OF TENDERS.

Scanned copies of the documents properly signed by authorized person along with the scanned copy of Tender Fee and EMD fee shall be uploaded and hard copies of the same should be submitted before the last due date and time.

2. QUALIFICATION REQUIREMENTS

Eligible Bidders

- 1) This Invitation for Bids is open to Manufacturer/Brand Owners/ Authorized Dealer/Distributor.
- 2) Bidder should have valid Digital Signature Certificate (DSC) of Class-II signing (minimum) and have to register in the portal <https://assamtenders.gov.in> by themselves.
- 3) The Bidder should submit PAN and GST Registration certificate in the name of the Bidder.
- 4) Technical Bid: All bids submitted shall also include the following information.
 - i) Tender Fee of Rs. 10,000/- should be furnished either by crossed Demand Draft or Bankers Cheque drawn in favour of the **Director, Welfare of Scheduled Castes, Assam** from any Nationalized Bank/ Scheduled Commercial Bank and payable at Guwahati. The bidders shall have to submit the proof of payment of EMD/Bid Security for an amount of Rs. 5.00 lakh only in the form of crossed Demand Draft/Bankers Cheque/FDR on any Nationalized Bank/ Scheduled Commercial Bank that should be payable at Guwahati only. The Original copy of crossed Demand Draft/Banker's Cheque of tender fee and EMD/Bid Security Deposit along with other relevant documents so uploaded and along with samples competed for should be submitted/deposited to the Director, Welfare of Scheduled Castes, Assam, Guwahati-6 in a sealed cover on or before the last date and time of submission of tender. The cover should be superscripted with the details of the tender.
 - ii) The bidder (s) in case of Dealer or Distributor of **PV SOLAR HOME LIGHTING SYSTEMS (HLS)** should have to submit their dealership / distributorship certificate from their concerning manufacturing unit or co. The bidder (s) should also submit an authorization letter from their concerning manufacturing unit / Co., authorizing the bidder to participate in this tender bid by mentioning the tender reference number in it. The letter should be addressed to the Director, Welfare of Scheduled Castes, Assam Guwahati-06.
 - iii) Bidder should have an average annual turnover of Rs. 7.00 Crores in the last three financial years i.e. 2016-17 to 2018-19. A certificate from bidder's registered Chartered Accountant (CA) stating therein that the bidder has average annual sales turnover of Rs.7.00 Crores during the last three financial year (2016-17 to 2018-19).
 - iv) Reports on financial standing of the Bidder such as profit and loss statements, balance sheets and auditor's report and Income Tax return acknowledge copy for the past three financial years.
 - v) The bidder (s) must submit financial soundness certificate in favour of their firm issued by the bidder's banker.
 - vi) The Bidder must have experience of supply and installation of any kind of Solar works of minimum Amount Rs. 10.00 Crore in a single work order. Order copy and completion

certificate to be submitted.

- vii) Valid Manufacturing License.
 - viii) Copies of documents defining the constitution or legal status, place of registration and principal place of business of the company or firm or partnership etc.
 - ix) Up-to- date trade license/factory license issued by competent authority.
 - x) Copies of GST Registration Certificate.
 - xi) Bidder must enclose Latest GST Return along with Tax Payment Challan.
 - xii) Bidder must furnish his PAN Card copy.
 - xiii) The bidder must submit copies of their up to date Trade license from the competent authority.
 - xiv) The Bidder should have the following certificates in their name:
 - A. ISO 9001: 2015.
 - B. ISO 14001: 2015.
 - C. ISO 45001:2018.
 - xv) Agreed Terms & Conditions as per Annexure-"E"
 - xvi) The bidders must certify that there will be no change in address or shift in address from the date of submission of bid till completion of the delivery.
 - xvii) The bidder (s) has to furnish a Notarized Affidavit to the effect that price quoted in this bid is not more than the price quoted or supplied to any other Govt./ Semi Govt. departments / agencies during the current financial year, taking into consideration the freight cost, for similar items.
 - xviii) Bidders shall have to submit a Notarized Affidavit that he/his firm is not under a declaration of ineligibility/ blacklisting for corrupt and fraudulent practices or for any other cause by Government of Assam and/or Govt. of India or any State Government.
 - xix) The bidder has to furnish a Notarized Affidavit to the effect that the price quoted in this bid is not more than the retail price/MRP of similar items prevalent in the state of Assam, taking into consideration of reasonable cost of transportation to delivery destination.
 - xx) Bids shall remain valid a period of **1 (One) Year** after the deadline for submission of bids prescribed by the Purchaser. A bid valid for a shorter period shall be rejected by the Purchaser as non-responsive.
- 5) **Price Bid / Commercial Bid:**
- i) Bidder should upload Bills of Quantity (BoQ) (Price Schedule) in .xls format online (Annexure-C).
 - ii) Rate should be inclusive of GST and all other expenses/taxes and delivery expenses.
 - iii) The rate and the contract is applicable for all related Director, Welfare of Scheduled Castes, Assam.
 - ❖ **Commercial Bid** : The Commercial Bid will comprise of the financial bid form (price schedule) as per Annexure-"D" will be uploaded only in BOQ format in <https://assamtenders.gov.in> and not to be submitted to the Director,

Welfare of Scheduled Castes, Assam in hardcopy.

- ❖ The Tenders should be submitted through e-procurement system only. All tender related documents and enclosures should be uploaded in .pdf format only except Bills of Quantity (BoQ) which is to be uploaded in .xls (Ms Excel) format.

6) **Amendment of Bidding Documents:** The Director, Welfare of Scheduled Castes, Assam, Guwahati-6, shall be at liberty to make amendments or modifications to the bidding documents at any point of time before the last date fixed for submission of the tenders if he feels it so necessary and he will do so by issuing a corrigendum at <https://assamtenders.gov.in>. The Purchaser may at his discretion also extend the time reasonably for submitting the tenders by fixing another date for the purpose and duly by issuing a corrigendum at <https://assamtenders.gov.in>.

7) **Non-binding clause:**

7.1 The Purchaser is not bound to accept any tender simply on ground of its rates being the lowest or for quoting unreasonable rates provided he has reasons so to do and, as such, the Purchaser is at liberty to cancel such tenders with reasons to be recorded in writing in the concerned file with intimation to the concerned bidder.

7.2 The bidders are not bound to submit the tender simply because they obtained the tenders from the Purchaser and any bidder who is unwilling and/or who has reservation to abide by the terms and conditions of the contract laid down herein as may also be prescribed in future under reasonable circumstances by the purchase is advised not to file any tender as filing of the tenders will automatically mean that the bidder concerned has willfully agreed to abide by such terms and conditions as laid down herein and also as may be reasonably laid down in future.

8) **Road Permits:**

Tender Inviting Authority will not take any responsibility for supplying Road Permits and C-Form. It will be the responsibility of supplier to arrange for dispatch of consignments to concerned destinations in Assam as per Annexure-"A".

SECTION-II

SCHEDULE TO THE INVITATION OF TENDER

(PLEASE REFER TO ANNEXURE-"B" FOR TECHNICAL SPECIFICATIONS OF ITEMS)

1. Quoting of Price:

- 1.1 Rates quoted will be per set
- 1.2 The rates quoted for item of material/articles shall include all taxes, GST and other levies payable on the prices of the items and/or on the total value thereof plus the costs of transportation from one destination to another, loading and unloading charges, depreciation and damage, if any. No claim for any cost or compensation outside the quoted rates shall be entertained at any point of time and under any circumstance whatsoever.
- 1.3 While fixing the rates the bidders shall also keep it in mind that the rates quoted are reasonably commensurable with the existing prices of those items at the prevailing market.
- 1.4 The bidder must quote for the materials/articles strictly as per the technical specifications furnished in Annexure-"B" of this booklet. No variation or variable quotation shall be accepted.
- 1.5 The rates quoted for item shall remain valid for the 2 (two) financial year i.e. 2020-21 and 2021-22 and shall not be subject to any increase and/or adjustment for any reason and under any circumstances whatsoever.
- 1.6 The rates quoted shall be F.O.R. Destinations- offices of the district go-downs situated at different locations of the state of Assam and, as such, no transportation or delivery charges shall be paid separately.
- 1.7 The bidder must keep the fact in their mind that the quantity mentioned in the schedule of requirement is a tentative approximation of requirement and not the actual requirement for the period involving the contract.
- 1.8 While assessing financial bid the overall total rate of the item as quoted in Bills of Quantity (BoQ) (inclusive of all taxes and other expenses) will be taken as the basis for determination of L-1.
- 1.9 The bid will be submitted/uploaded as per on-line e-procurement process. All pages of documents to be scanned for uploaded need to be sealed & signed by bidders.
- 1.10 Overwriting in any form or manner anywhere in the tender papers shall not be accepted and the tender shall stand automatically cancelled.
- 1.11 Tender Fee along with other documents shall be submitted at the Director, Welfare of Scheduled Castes, Assam, Guwahati-06 during office hours on all working days on or before last date and time of submission of tender.

2. Validity of tenders:

- 2.1 Only those tenders shall be treated as valid the submission of which is found in order and the rates of items quoted are accepted and bidders of such tenders shall be called successful bidders. The successful L-1 bidder shall have to sign a Rate Contract Agreement with the Purchaser that shall remain effective and valid for the specific tender only.

3. Conditions for supply:

- 3.1 Delivery of all goods covered by an order shall have to be initiated within 90 days of issue of order at the destinations mentioned in the order and completed within 150 days from the date of issue of the order by the Director, Welfare of Scheduled Castes,

Assam, Guwahati-06. Each delivery to each destination shall be made by issuing a Challan in 4 (four) copies which must expressly and clearly show the items name and specification and their quantity, signed and sealed by the supplier. Signatures with date and seal of the concerning officer (s) to whom the goods are delivered shall have to be obtained on the Challan. One copies of the Challan is to be given to him/her (the authorized receiver of goods).

- 3.2 Payment will be made on the basis of actual quantity received in good condition.
- 3.3 The bidder shall furnish information to the Purchaser the Director, Welfare of Scheduled Castes, Assam, Guwahati-6 in respect of each delivery to each destination with which a copy of the aforesaid Challan shall have to be attached. Two copies of the Challan shall be attached to the bill when submitted for payment.

4. Withdrawal of Bids:

Any bidder may withdraw the bid up to last date of submission of bid which is also the time for submission of bid. Only single bid shall be submitted by each bidder.

5. Inspections and Test:

The Purchaser's right to inspect or test as well as to reject the Goods, where necessary, after the Goods arrived their final destinations shall in no way be limited to or waived by reason of the Goods having been previously inspected or tested and passed by the Purchaser or his authorized representative prior to the Goods shipment.

6. Packing/Packaging:

- 6.1 The Supplier shall provide such packing of the goods as is required to prevent their damage or deterioration during transit to their final destination as indicated in the Contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit.
- 6.2 The packing, marking and documentation in and outside the packages shall comply strictly with such special requirements as shall be provided for in the Contract including additional requirements, if any, specified in any subsequent instructions issued by the Purchaser after the contract was signed.
- 6.3 The Director, Welfare of Scheduled Castes, Assam, Guwahati-06 will be procuring Solar Home Lighting System and the materials should be supplied in sets. The carton box packaging containing Solar Home Lighting System should bear the name of Manufacturer, Registration No., Brand name (if any), Batch No. /Serial Number and contents etc. as per specification given in Bid.

7. Termination of Default:

- 7.1 The Purchaser may, without prejudice to any other remedy if available to him, shall issue notice for breach of contract for supplying defective material or sub-standard material to the Supplier's expressed destinations, terminating the Contract in whole or part at the discretion of the Purchaser.
- 7.2 The Purchaser shall also be at liberty to cancel the contract or deduct the proportionate value of the goods complained of if:
 - a) The Supplier fails to deliver any or all of the goods complained of by the Purchaser within the period(s) specified in the Contract;
 - b) The Supplier fails to perform any obligation(s) under the Contract; and/or.
 - c) The Supplier, in the judgment of the Purchaser, has engaged in corrupt or

fraudulent practices in competing for or in executing the Contract.

NOTE:

- (1) "Corrupt practice" means offering, giving, receiving or soliciting of anything any favour in cash or in kind or an act of influencing the action of a public servant in the procurement process or in executing the contract.
 - (2) "Fraudulent practice" means misrepresentation of facts in order to influence the procurement process or execution of the contract to the detriment of the Purchaser, and includes collusive practice among bidders (prior to or after submission of the bids) designed to establish Bid prices at artificial or non-competitive levels and/or to deprive the Purchaser of the benefits of free and open competition.
8. If the Purchaser terminates the Contract in whole or in part, the Purchaser shall have the right to procure, upon such terms and in such manner as he deems fit and appropriate, the goods or Services similar to those undelivered, and the supplier shall be liable to the Purchaser for making good of the loss if any incurred in the process by the Purchaser any excess costs for such procurement of goods and/or services. However, the Supplier shall continue the performance of the Contract to the extent not terminated.
9. **Termination of Contract for insolvency:** The Purchaser may at any time terminate the Contract by giving written notice to the supplier if the Purchaser reasonably finds at any point of time during the continuation of the period of contract that the supplier has become bankrupt or otherwise insolvent. Termination of the contract in such a situation will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy, which has accrued thereafter to the Purchaser.
10. **Termination of Contract for Violation:** The Purchaser, by issuing a written notice to the supplier, may at any point of time terminate the Contract, in whole or in part, if the Purchaser reasonably finds that the supplier has violated one or more terms or conditions of the Agreement or has engaged in influencing any of the officials or persons concerned with the implementation of the scheme. The supplier shall not be entitled to any compensation for such termination mid-way but he shall remain entitled to the amount proportionate to the works done until termination of the Contract.
11. **Award of contract:**
- 11.1 The Purchaser reserves the right to accept or reject any or all the tenders and to cancel the bidding process as well as to reject all quotations at any time prior to the award of the contract with reasons to be recorded in writing.
 - 11.2 The Purchaser shall inform about the award of the contract to the bidder whose tender the Purchaser accepts. The terms and conditions of the accepted offer shall be incorporated in the purchase order.
 - 11.3 Payment of the suppliers' bills shall be made after delivery of the goods in satisfactory condition and confirmation report from the concerned Officers of the District regarding the receipt of the goods in good and satisfactory condition and subject to release of F.O.C. by the Government.

NOTE :

- (A) The bidders shall submit/ upload online as per time schedule mentioned above. The bids/tenders will be opened on 24th of December' 2020 at 03:00 PM

- (B) No preference will be given to any bidder or class of bidders, either for price or for any of the terms and conditions, earnest money deposit exemption etc. The bidders' sincere participation in the tendering process under reference shall be thankfully appreciated in the interest of the project.

12. Cost of Bidding Document: Rs.10,000/- (Ten Thousand only)

13. Resolving Disputes and/or dissensions, if any:

- 13.1 The Purchaser and the supplier shall make all out efforts to resolve the disputes and/or the dissensions if ever arises any out of the Contract/Agreement amicably by direct and formal or informal negotiations and upon failing to arrive at an amicable settlement within 15 fifteen) days from the date of commencement of the mutual discussion towards settling the dispute or dissension the matter shall be referred to arbitration by mutual consent with due intimation to and from all concerned.
- 13.2 In case of failure of the parties to resolve their dispute or difference or dissension amicably by themselves within 15 (fifteen) days, the Purchaser or the Supplier may give notice to the other party of its intention to commence arbitration, as herein after provided, as to the matter in dispute, and no arbitration in respect of this matter shall commence unless such notice is given .Arbitration may commence prior to or after delivery of the Goods under the Contract.
- 13.3 The Principal Secretary to the Government of Assam or his designated representative shall be the arbitrator.
- 13.4 In case the dispute/dissension between Purchaser and Supplier could not be resolved by arbitration within 30 days from the date of commencement of the process of arbitration, then the legal dispute may be pursued only at the Court (s) under jurisdiction of / at Gauhati High Court, Guwahati.

14. Payment: Payment for Goods and Services shall be made in Indian Rupees as follows:

- (A) Payment for Goods shall be paid on receipt of Goods and upon submission of the documents specified. Part payment may be made after delivery of minimum 20% of the total ordered quantity and up-to a maximum limit of five times, subject to satisfactory performance.
- (B) The Purchaser reserves the right to make all payment through A/c payee cheque only. The A/c payee cheque must be collected by the senior representative/executive of the manufacturer/bidder duly authorized by the manufacturer in the signature, seal in pad similar to the papers submitted in the technical and commercial bid.

Details break-up for supply of "PV SOLAR HOME LIGHTING SYSTEMS (HLS)"

District	Name of SDWO	Destination
Kokrajhar	SDWO, Kokrajhar	Kokrajhar
	SDWO, Parbatjhora	Parbatjhora
	SDWO, Gosssaigaon	Gosssaigaon
Dhubri	SDWO, Dhubri	Dhubri
	SDWO, Bilashipara	Bilashipara
South Salmara	SDWO, South Salmara	Hatsingimari
Goalpara	SDWO, Goalpara	Goalpara
Barpeta	SDWO, Barpeta	Barpeta
	SDWO, Bajali	Bajali
Morigaon	SDWO, Morigaon	Morigaon
Nagaon	SDWO, Nagaon	Nagaon
	SDWO, Kaliabor	Kaliabor
Hojai	SDWO, Hojai	Hojai
Sonitpur	SDWO, Tezpur	Tezpur
	SDWO, Gohpur	Gohpur
BiswanathChariali	SDWO, BiswanathChariali	BiswanathChariali
Lakhimpur	SDWO, North Lakhimpur	North Lakhimpur
	SDWO, Dhakuakhana	Dhakuakhana
Dhemaji	SDWO, Dhemaji	Dhemaji
	SDWO, Jonai	Jonai
Tinsukia	SDWO, Tinsukia	Tinsukia
	SDWO, Margherita	Margherita
	SDWO, Sadiya	Sadiya
Dibrugarh	SDWO, Dibrugarh	Dibrugarh
Sivasagar	SDWO, Sibsagar	Sibsagar
	SDWO, Nazira	Nazira
Charaideo	SDWO, Charaideo	Charaideo
Jorhat	SDWO, Jorhat	Jorhat
	SDWO, Titabar	Titabar
Majuli	SDWO, Majuli, Garamur	Garamur
Golaghat	SDWO, Golaghat	Golaghat
	SDWO, Bokakhat	Bokakhat
	SDWO, Dhansiri	Dhansiri
Cachar	SDWO, Silchar	Silchar
	SDWO, Lakhimpur	Lakhimpur
Karimganj	SDWO, Karimganj	Karimganj
Hailakandi	SDWO, Karimganj	Hailakandi
Bongaigaon	SDWO, North Salmara	Abhayapuri
	SDWO, Bongaigaon	Bongaigaon
Chirang	SDWO, Kajalgaon	Kajalgaon
	SDWO, Bijni	Bijni
Kamrup	SDWO, Rangia	Rangia
Kamrup M	SDWO, Guwahati	Guwahati
Nalbari	SDWO, Nalbari	Nalbari
Baksa	SDWO, Mushalpur	Mushalpur
	SDWO, Salbari	Salbari
	SDWO, Tamulpur	Tamulpur
Darrang	SDWO, Mangaldai	Mangaldai
Udalguri	SDSWO, Udalguri	Udalguri
	SDWO, Bhergaon	Bhergaon

Annexure – “B”

Technical Specification

Technical Specification of PV SOLAR HOME LIGHTING SYSTEMS (HLS):-

A PV SOLAR HOME LIGHTING SYSTEMS (HLS) provides a comfortable level of illumination in one or more rooms of a house. The HLS consists of a PV module, control electronics, battery, and luminary(s). There are several SHS models featuring one, two, or five luminaries based on White Light Emitting Diode (W-LED). The system should also be used to run a small DC fan of 18W along with the W-LED Lamps.

PV module converts sunlight into electricity, which powers the luminary(s). White Light Emitting Diode (W-LED) is a solid state device which emits light when electric current passes through it.

BROAD PERFORMANCE SPECIFICATIONS

The broad performance specifications of a W-LED light source based solar home lighting system are given below:

Solar PV Array	Indigenously Manufactured Solar PV Array must not be less than 250Wp. Accordingly Solar PV modules of rating 12V/24V, Solar PV under STC may be used for the same.
Battery	Lithium Ferrous Phosphate 12.8 V, 60 A-hr., (Approx. 768 watt-hour) with Lithium ferrous phosphate 90% DoD, Adequate protections to be provided for battery reverse polarity.
Light Source	The light sources shall be white LED up to max. 7 W and Light Output should be Minimum 25Lux when measured at the periphery of 2.5meter diameter from a height of 2.5 meter. The LED bulbs should be indigenously manufactured. Each household shall be provided with 5 Nos. W-LED bulbs @ 7 W (max), a 25 w DC power socket with in-built polarity protection. The W-LED bulbs should not emit ultraviolet lights. The light output must be constant throughout the duty cycle.
Light Output	Minimum 15Lux when measured at the periphery of 2.5 meter diameter from a height of 2.5 meter. At any point within area of 2.5mtr diameter periphery the light level should not be more than three times of the periphery value. The illumination should be uniform without Dark Bands or abrupt variations and soothing to the eyes. Higher output would be preferred.
DC Fan Table Fan	18W Table dc fan operating on 12 V DC. Fan should operate on PMDC technology. Fan shall be of 18W and Fan should operate at around 18W (+/- 10%)
Mounting of light	Wall or ceiling
Electronics	Min 85 % efficiency
Average duty cycle	5 hours a day under average daily isolation of 5.5 kWh/ sq.m. On a horizontal surface.
Autonomy	3 days or Minimum 15 operating hours per permissible discharge

TECHNICAL DETAILS PV MODULE(S)

- I. Only indigenously manufactured PV modules should be used.
- II. The PV modules should be made up of crystalline silicon solar cells and must have a certificate of testing conforming to
 - a. IEC: 61215 Ed- II/IS: 14286: Crystalline silicon terrestrial photovoltaic modules - Design qualification and type approval.
 - b. IEC: 61730 – Part 1 : module safety qualification – Requirements
 - c. IEC: 61730 – Part 2 : module safety qualification – Requirements

The testing must be done at an NABL or IECQ accredited Laboratory.

- III. The module efficiency should not be less than 14%.
- IV. The terminal box on the module should have a provision for opening, for replacing the cable, if required.
- V. There should be a Name Plate fixed inside the module which will give:
 - a. Name of the Manufacturer or Distinctive Logo.
 - b. Made in India
 - c. Logo of the promoting body
 - d. Model Number
 - e. Serial Number
 - f. Year of manufacture
- VI. A distinctive serial number starting with **AEDA/NSM/XXX** will be engraved on the frame of the module or screen printed on the tedlar sheet of the module.

BATTERY

- I. 12.8 V, 60 A-hr., (Approx. 768 watt-hour) with Lithium ferrous phosphate 90% DOD, Adequate protections to be provided for battery reverse polarity. The battery should be installed at safe location inside the home of households and should be placed inside suitable battery enclosure with battery stand. The self-discharge should not be more than 3% per month with operating temperature of -5 °C to 55°C.
- II. Battery should conform to the latest IEC/BIS/ International standards.

LIGHT SOURCE

- I. The light sources shall be white LED up to max. 7 W and Light Output should be Minimum 25Lux when measured at the periphery of 2.5meter diameter from a height of 2.5 meter. The LED bulbs should be indigenously manufactured. Each household shall be provided with 5 Nos. W-LED bulbs @ 7 W (max), a 25 w DC power socket with in-built polarity protection. The W-LED bulbs should not emit ultraviolet lights. The light output must be constant throughout the duty cycle. The light source should be either for wall mounted or ceiling mounted or can be hung from the ceiling in a stable manner, as per site requirements.
- II. Bulb should have laser printed marking with appropriate technical details.
- III. The luminaries should use white LEDs. The colour temperature of white LEDs should be in the range of 5500K – 6500K. Use of LEDs which emit ultraviolet light will not permitted. The light output from the white LED light source should be constant throughout the operation of the lights.
- IV. The lamps should be housed in an assembly suitable for indoor use with an appropriate heat sink to dissipate the heat generated by LEDs during operation. The temperature of LED should not increase more than 10o above room temperature. This condition should be complied for 5 hours of operation of the lamp at a stretch while battery operating at any voltage between the loads disconnect and the charge regulation set point.
- V. The luminaries must use the optics and diffuser in order to have uniform and glaze free light.
- VI. The make, model number, country of origin and technical characteristics (including IESNA LM-80 report) of white LEDs used in the lighting system must be furnished along with the system.
- VII. All Luminaries should have a built in ON/OFF switch and fuse.

DC Fan

- I. 300 mm Table fan white in color shall be operating on 12 V DC. Fan should operate on PMDC technology. Fan shall be of 18W and with speed of maximum 1600+ 5% rpm. Fan should operate at around 18W (+/- 10%) power consumption at lowest speed. Fan with

LED LIGHT on both side of the fan giving soft light through translucent covering on top of LED.

ELECTRONICS

- I. Electronics should operate at 12 / 24 V and should have adequate temperature compensation arrangement for proper charging of the battery throughout the year.
- II. Inverter should be with "THD" less than 5% and Efficiency more than 90 %.
- III. Necessary lengths of wires / cables, switches and fuses should be provided.
- IV. The system should have separate ports for connecting each load along with a charging port for mobile and laptop.
- V. The idle current i.e. when there is no load (& inverter is switched OFF, in case of A.C. Systems) and no display, it should be less than 150mA.
- VI. The voltage drop from module terminals to the battery terminals should not exceed 1.0 volts including the drop age across the diode and the cable when measured at maximum charging current.
- VII. The PCB containing the electronics should be capable of solder free installation and replacement.
- VIII. Necessary lengths of wires/cables, switches suitable for DC use and fuses should be provided.

ELECTRONIC PROTECTIONS

- I. Adequate protection is to be incorporated under "No Load" condition, e.g. when the lamps and other loads are removed and the system is switched ON.
- II. The system should have protection against battery overcharge, deep discharge condition.
- III. Load reconnect should be provided at 90 % of the battery capacity status.
- IV. Adequate protection should be provided against battery reverse polarity.
- V. Fuses should be provided to protect against short circuit conditions.
- VI. Protection for reverse flow of current through the PV module(s) should be provided.

MECHANICAL COMPONENTS

- I. Die casting mounting clamp with 80MM OD with an option of degree embossed on the clamp cap.
- II. Corrosion resistant frame structure should be provided to hold the SPV module.
- III. The frame structure should have provision to adjust its angle of inclination to the horizontal, so that it can be installed at the specified tilt angle.
- IV. Light source should be either for wall mounted or ceiling mounted or can be hung from the ceiling in a stable manner, as per site requirements.
- V. A vented plastic/ wooden/ metallic box with acid proof corrosion resistant paint for housing the storage battery indoors should be provided.

INDICATORS

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

QUALITY AND WARRANTY

- I. The Solar home system including Battery will be warranted for a period of two years from the date of supply.

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

OPERATION & MAINTENANCE MANUAL

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

- a. Basic principles of Photovoltaic.
- b. A small write-up (with a block diagram) on Solar Home Lighting System - its components, PV module, battery, electronics and luminaries and expected performance.
- c. Significance of indicators.
- d. Type, Model number, voltage & capacity of the battery, used in the system.
- e. The make, model number, country of origin and technical characteristics (including IESNA LM-80 report) of W-LEDs used in the lighting system must be indicated in the manual.
- f. Clear instructions about mounting of PV module(s).
- g. Clear instructions on regular maintenance and trouble shooting of the Solar Home Lighting System.
- h. DO's and DONT's.
- i. Name and address of the contact person for repair and maintenance.

The bidder should have valid test report of LED Based Solar Home Lighting System, tested as per MNRE, GOI latest guidelines "minimal technical requirements / standards for SPV systems / plants to be deployed" (Test Certificate from MNRE lab should have to be submitted for the Solar Home Lighting System). Test report of the individual item from NABL lab will be also required for qualifying the Bid. The Test report should be before the date of publication of this BID DOCUMENT.

PERFORMA –I

TECHNICAL DETAIL OF MODULES, PCU AND BATTERY BANK OFFERED

Sl. No.	ITEM	Technical Detail
1	SOLAR PHOTOVOLTAIC MODULES	
1.1	Make	
1.2	Type	
1.3	Capacity of modules	
1.4	Testing and qualifying standards	
2	LED LIGHTS	
2.1	Make	
2.2	Capacity	
3	BATTERY BANK	
3.1	Type	
3.2	Manufacturers Name	
3.3	Capacity Ah	
3.4	Testing and qualifying standards	
4	CHARGE CONTROLLER	
4.1	Make	
5	OTHER PARTS	
5.1	Wire/Switches/Holder	
5.2	Make	
5.3	Quality Standard (ISI Marked)	YES/NO

(Price Schedule) - Item Rate BoQ

Tender Inviting Authority: <i>DIRECTORATE OF WELFARE OF SCHEDULED CASTES, ASSAM</i>	
Name of Work : <i>Supply & Installation of PV SOLAR HOME LIGHTING SYSTEMS (HLS)</i>	
Tender No: DSC/TDR/630/2020/Pt. 27/1	Date : Guwahati the 9th December' 2020

Name of the Bidder/ Bidding Firm / Company	
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PRICE SCHEDULE

(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

NUMBER #	TEXT #	NUMBER #	TEXT #
SI No	Item Description	RATE QUOTED (Per piece) (Inclusive of GST, Transportation and all other charges Rs P	Rate Quoted (In words)
1	2	3	4
1	SUPPLY & INSTALLATION OF PV SOLAR HOME LIGHTING SYSTEMS (HLS) as per specification in Annex. (B) of tender document.		

ANNEXURE-"D"

**GOVERNMENT OF ASSAM
DIRECTORATE OF WELFARE OF SCHEDULED CASTES, ASSAM
HOUSEFED COMPLEX, DISPUR, GUWAHATI-06**

AGREED TERMS & CONDITIONS

Tender No. & Date :

9. DETAILS OF BIDDER

Bidder Name :

Office Ref. :

Contact Person:

Telephone No:

Fax No:

E-mail:

Signature :

NOTE: The questionnaire below must be duly filled in and should be enclosed with un-priced Technical Bid.

B. TECHNICAL:

SI No.	Description	Bidder's Confirmation
		Yes/No
1	Confirm that you met the eligibility criteria as per bid document and have furnished relevant documents.	
2	Confirm acceptance of Technical Specification and Scope of Supply as per Tender Document.	
3	Confirm that literature and technical data, wherever applicable, have been enclosed.	
4	Confirm that all certificates/ documents furnished.	
5	Confirm that Earnest Money Deposit (EMD) as per bid document has been furnished	

C. COMMERCIAL

SI No.	Description	Bidder's Confirmation
		Yes/No
1	Confirm that the quoted price of the items are inclusive of cost of packing & forwarding charges, freight, insurance and all duties and taxes viz. GST.	
2	It is noted that the statutory variations in taxes and duties within the contractual delivery period shall be borne by the purchaser.	
3	If there is any variation or fresh imposition of Excise Duty at the time of supply due to various reasons, including turn-over, confirm that the same shall be borne by supplier.	
4	Confirm that in case any new or additional duties and taxes are imposed after the contractual delivery date due to delays attributable to the supplier the same shall be borne by the supplier. This will be in addition to Price Reduction for Delay in Delivery.	
5	Confirm acceptance of Delivery Period as specified in the Tender Document	
6	Confirm acceptance of relevant payment terms specified in the bid document.	
7	Confirm that the quoted prices shall remain firm & fixed till complete execution of the order and period of contract.	
8	Packing/ forwarding, transportation, loading/ unloading and insurance are supplier's responsibility. To protect the items from physical damages and/or deterioration due to weather during transit, supplier to ensure proper packing & handling arrangement.	
9	Confirm that you shall observe the highest standard of ethics during bidding and in case favored with an order, the execution of the order will be completed, without resorting to any fraud, corruption and/or coercion.	

SIGNATURE OF BIDDER:

NAME & DESIGNATION:

(IN BLOCK LETTER)

DATE:

NAME & ADDRESS OF THE FIRM:

ANNEXURE-"E"

PROFORMA OF PERFORMANCE STATEMENT FOR THE LAST 3 (THREE) FINANCIAL YEAR (2017-2018, 2018-2019 and 2019-2020)

Name of the Firm.....

Financial Year of Supply	Order placed by (full address of Purchaser)	Order No. date	Name of Items	Value of order
1	2	3	4	5
2017-2018				
2018-2019				
2019-2020				
Total Amount Rs.				

Average amount of Govt. supply orders & execution for last 3 Financial year (Total amount) =
Rs.

Signature and Seal of
Bidder.....
.....

Note: This Proforma of Performance should be supported with respective order copies and completion certificates from the concerning officers

Annexure-“F”

Form of Agreement

THIS CONTRACT AGREEMENT is made

This day of month..... year.....

BETWEEN

(1) Name and Address of the Purchaser: Director, Welfare of Scheduled Castes, Assam,
Block No. 2, 2nd Floor, Housefed Complex,
Beltola-Basistha Road, Last Gate, Dispur
Guwahati-06

(2) Name and Address of the Supplier:

WHEREAS the Purchaser invited bids for certain goods and ancillary services, viz., Uniform (Sports) and has accepted a bid by the Supplier for the supply of those goods and services in the sum of [insert: contract price in words and figures] (hereinafter called “the Contract Price”)

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meaning as are respectively assigned to them in the Condition of Contract referred to.
2. The following documents shall constitute the Contract between the Purchaser and the Supplier, and each shall be read and constructed as an integral part of the Contract:
 - (a) This Contract Agreement
 - (b) Qualification Criteria
 - (c) General Conditions of Contract
 - (d) Technical Requirements (including Technical Specifications)
 - (e) The Supplier’s bid and original Price Schedules
 - (f) The Purchaser’s Notification of Award
3. In consideration of the payments to be made by the Purchaser to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Purchaser to provide the Goods and Services and to remedy defects therein in conformity in all respects with the provisions of the Contract.
4. The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the Goods and Services and the remedying of defects therein, the Contract price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

For and on behalf of the Purchaser

Signed: _ In the capacity of [insert: **title or other appropriate designation**]

In the presence of _____

For and on behalf of the supplier

Signed: _ In the capacity of [insert: **title or other appropriate designation**]

In the presence of _____

Annexure- "G"**CHECK LIST FOR TECHNICAL BID**

No.	Cover A(Technical Bid Documents)	Enclosed (Yes)	Enclosed (No)	Page SI No
1	Court fee Stamp Affixed			
2	Technical Bid forwarding letter along with Check list (Annexure - G)			
3	Tender Fee			
4	Bid Security/EMD			
5	GST Registration certificate of the Bidder			
6	Latest GST return copies with Tax payment challan			
7	PAN Card of the Bidder			
8	Up to date Trade License			
9	Annual sales turnover certificate certified by bidder's registered CA			
10	Income Tax return acknowledgement copy			
11	Valid certificates and manufacturing / factory license of manufacturer/ Manufacturing License			
12	Bank Solvency certificate			
13	. ISO 9001 : 2015 of the Bidder			
14	. ISO 14001 : 2015 of the Bidder			
15	. ISO 45001 : 2018 of the Bidder			
16	Technical Specifications /Leaflet As per Performa-I			
17	Company profile.			
18	Authorized Dealership/ Distributorship Certificate from the Manufacturer			
19	Affidavit that the price quoted in this bid is not more than the price Quoted to any other Govt. department for similar item.			
20	Affidavit that bidder is not under the declaration of Ineligibility / blacklisting etc. By Govt. of Assam or India.			
21	Affidavit that price quoted is not more than MRP of similar item.			
22	Declaration by the bidder that the Bid shall remain valid for 2(Two) year after the deadline for submission of bids prescribed by the Purchaser. A bid valid for a shorter period shall be rejected by the Purchaser as non-responsive.			
23	List of District wise Service Network.			
24	Annexure - D (Agreed Terms & Condition)			
25	Annexure-"E" Performa of performance statement			
26	Test Report of the complete system from MNRE Lab.			

Sign and Seal by Authorized representative of the Bid