

Online tenders are invited in two stage bid system i.e. Technical bid and Financial Bid as per the details given below in Schedule-A

SCHEDULE-A
(Effective w.e.f 16.12.2020)

Sr. No.	PARTICULARS	REMARKS
1	Tender Notice No.	07/ 2021-2022
2	Sr. No. of Tender.	03 Group-II
3	Superscribed No. of Tender.	34/HR/RC/G-2/2020-21
4	Online submission of EMD, Tender fee & e-Service Fee Option-1: Through Net Banking and Debit card	On or before last date of submission of Technical Bids upto 12:00 Noon
5	Online submission of EMD Option-2: Through RTGS/ NEFT- <i>(In case of above, the bidder has to pay Tender Fee & e-Service Fee Through Net Banking and Debit card as per the given date & time schedule)</i>	On or before 01.07.2021 Upto 02:00 P.M.
6	On line Bid Preparation & submission.	Upto 05.07.2021 at 02:00 P.M.
7	Date & time of opening of Technical Bids/s.	On or after 05.07.2021 at 02:30 P.M.
8	Date & time of opening of Financial Bids/s	To be decided later on
9	Tender Fee:	
	(I) For Haryana based manufacturing Micro and Small Enterprises (MSEs) & Khadi Village Industries Unit eligible as per the "Haryana State Public Procurement Policy for MSME -2016" notified vide G.O. No. 2/2/2016-4I BII(1) dated 20-10-2016 and as amended from time to time.	NIL
	(II) For Haryana based Startups/First Generation Entrepreneurs eligible as per State policy "Concession/benefits in Public Procurement to Startups/First Generation Entrepreneurs of State" issued vide G.O No.2/2/2016-4I B-II dated 03.01.2019.	NIL
	(III) For remaining bidders both from the Haryana and Non Haryana	Rs. 5000/-
	Earnest Money Deposit (EMD) required:	
	(I) For Haryana based manufacturing Micro and Small Enterprises (MSEs) & Khadi Village Industries Unit eligible as per the "Haryana State Public Procurement Policy for MSME -2016" notified vide G.O. No. 2/2/2016-4I BII(1) dated 20-10-2016 and as amended from time to time.	NIL
10	(II) For Haryana based Startups/First Generation Entrepreneurs eligible as per State policy "Concession/benefits in Public Procurement to Startups/First Generation Entrepreneurs of State" issued vide G.O No.2/2/2016-4I B-II dated 03.01.2019.	NIL
	(III) Central or Haryana Public Sector Enterprises and "approved sources" as declared by the Industries Department, Haryana	NIL
	(IV) For remaining bidders both from the Haryana and Non Haryana	2,00,000/-
11	E-Service Fee	Rs. 1000/-
12	Date and time of receipt of samples (if required)	On 05.07.2021 from 02.30 PM to 04.30 P.M
13	Rates to be kept valid for acceptance upto:	31.12.2021

A. Information to Bidders:

i. The Bidders can download the tender documents from the Portal: <https://etenders.hry.nic.in>

1. Date and Time of making payment of tender fee, earnest money deposit (EMD) and e-service fee is as under:

A	Online submission of EMD, Tender fee & e-Service Fee Option-1: Through Net Banking and Debit card	On or before last date of submission of Technical Bids upto 12:00 Noon
B	Online submission of EMD Option-2: Through RTGS/ NEFT- <i>(In case of above, the bidder has to pay Tender fee & e-Service fee Through Net Banking and Debit card as per the given date & time schedule)</i>	On or before 01.07.2021 Upto 02:00 P.M.

2. As the Bids are to be submitted online and are required to be encrypted and digitally signed, the Bidders are advised to obtain Digital Signature Certificate (DSC) at the earliest. For obtaining Digital Certificate, the Bidders should follow Point No.- 2 under "Instructions to bidder on Electronic Tendering System" and available in folder of "Tender Forms" available on following link <http://dsndharyana.gov.in/Portals/0/Tender%20form/Tender%20Forms%2016.12.2020.zip?ver=2020-12-18-122317-777> and for information about DSC at NIC Portal visit <https://etenders.hry.nic.in/nicgep/app?page=DSCInfo&service=page>
3. The Bidders shall have to pay for the Tender Documents Fee, EMD Fees & e-Service Fee online by using the service of secure electronic payment gateway. The secure electronic payments gateway is an online interface between bidders and online payment authorization networks.
4. The bidders must have Net Banking account in order to pay Tender Document Fee and e-Service Fee.
5. **Payment of Tender Fee:-** The payment for the Tender Document Fee shall be made by the interested bidder online directly through Net Banking with the available Banks at e-GRAS e-Payment Gateway.
6. **Payment of e-Service Fee:-** E-Service Fee payment shall be made separately by the interested bidders/ contractors online directly through Net Banking Account.
7. **Payment of EMD:-** The payment of EMD can be made through Net Banking or RTGS/ NEFT as per details at Para-2 above. In this regard please refer to "Instructions to bidder on Electronic Tendering System" available at the available in folder of "Tender Forms" on website : <https://dsndharyana.gov.in>
8. Intending bidders will be mandatorily required to sign-up online (create user account) on the website <https://etenders.hry.nic.in> to be eligible to participate in the e-Tender. In case the intended bidder fails to pay EMD fee under the stipulated time frame, he/she shall not be allowed to submit his/ her bids for the respective event/ Tenders.
9. In case of payment of EMD through RTGS/ NEFT, the interested bidders must remit the funds at least T+1 working day (Transaction + One Day) in advance i.e. on or before 01.07.2021 upto 2.00 P.M; and make payment via RTGS/NEFT to the beneficiary account number specified under the online generated challan. The intended bidder/ Agency thereafter will be able to successfully verify their payment online, and submit their bids on or before the expiry date & time of the respective events/ Tenders at <https://etenders.hry.nic.in>
10. However, the details of the EMD, Tender document Fee & E – Service Fee are required to be filled/ provided at the time of online Bid Preparation.

11. Online Technical Envelope—Reference details of the Earnest Money Deposit, Tender Document Fee & e - Service Fee instrument and scanned copies of supporting documents and QR/technical criteria with proper index and page numbering on all the documents have to be provided as per **Annexure-IA** of this document.
12. If the tenders are cancelled or recalled on any grounds, the Tender Document Fee and e-Service Fee will not be refunded to the bidder.

B. Brief Description of Procuring/ Rate Contract item:

Sr. No.	Description of Stores	Quantity of Rate Contract	Estimated Value	Place of Delivery
1	Model-1 Supply, installation and commissioning of LED Based Solar Home System for Anganwari Centres of the Haryana State with five years warranty of complete system required by New & Renewable Energy Department, Haryana.	11241 nos.	Approximate investment by bidder for solar Home System for Anganwari Centres and Manohar Jyoti Scheme shall be Rs. 3840 Lakh.	Anganwadi Centres, Schools and other Government and Public buildings in Haryana.
2	Model-2 Supply, installation and commissioning of LED Based SPV Home Lighting System (Manohar Jyoti) with five years warranty of complete system required by New & Renewable Energy Department, Haryana.	4,300 nos.		Anywhere in Haryana

The detailed technical specifications/ description of the above stores are available at **Annexure-I** of this document.

C. Specific Terms & Condition/ Eligibility Criteria related to above Store:

1. The Bidder should be either a body incorporated in India under the Companies Act, 1956 or 2013 including any amendment thereto or proprietary/partnership/LLP firm. A copy of certificate of incorporation shall be furnished along with the bid in support of above.
2. The bidder should be a manufacturer of solar modules/solar cells/Lithium battery or System Integrator. The System Integrator has to submit the undertaking issued by each manufacturer of major parts/devices (solar modules, charge controller, battery, fan and LED Luminaries (bulb/batten) to be used in system with whom they have tie up mentioning that in case System Integrator defaults, at any stage of execution of warrantee/guarantee/CMC and after sale service of the said device, installed in reference to rate contract of the said tender, then the Company will be responsible to execute the warrantee/guarantee/CMC of the said device at site of installation as per the terms and conditions of rate contract/DNIT of the above tender and will adhere the directions of the New & Renewable Energy Department/HAREDA directly.

3. The bidder has to submit Test report of the complete system in his name issued by any of the MNRE / BIS /IEC/ NABL accredited laboratory on or after 01.04.2018. Bid without valid test report from MNRE / BIS /IEC/ NABL accredited laboratory will be rejected out rightly. The test report should contain the make and model of major components i.e. module, battery, charge controller, fan and LED Luminaries (bulb/batten) along with their photograph.
4. Domestically manufactured PV Module with domestically manufactured solar PV cells should be used. The PV modules should be made up of crystalline silicon solar cells and must have BIS certificate for IS 14286 & IS 61730 (Part-I, Part II). PV modules must meet the latest specifications of MNRE and the models and Manufacturers of PV Modules shall be included in the List of Models and Manufacturers for Solar PV Modules empanelled by MNRE as per its ALMM order (and shall also be valid at the time of supply of material) from time to time. To bring contractual clarity, Bidders has to give explicit declaration that they are aware of binding provisions of the ALMM Order and the List(s) thereunder, while quoting the rates in the bid.
If the Manufacturers of PV Modules has applied to MNRE for including their models and name in the List of Models and Manufacturers for Solar PV Modules empanelled by MNRE in its ALMM order, then the bidder has to submit the acknowledgement for application for the same. In such cases if the name is not included in the said list as on the date of opening of financial bids, then the bidders will be treated as technically non-eligible (it is the responsibility of the bidder to submit the proof of inclusion of their models and name in the said list on or before the date of opening of financial bids).
5. All other major components should also be indigenously made. i.e. Lithium battery, charge controller, fan and LED Luminaries (bulb/batten).
6. The bidder should have also a valid ISO 9001:2015 Certificate issued from any NABCB accredited certification body in the field of quoted item and copy of valid ISO 9001:2015 Certificate must be attached with offer.
7. Bidder should have not been debarred/blacklisted by any Govt. Deptt's / organization/ PSU's / institutions/ agencies/ autonomous Organizations.
8. The Bidder should have valid GST registration certificate of the billing state. A copy of which should be enclosed.
9. The Successful Bidder shall be required to establish at least one Service Centre at Divisional Level in their area of operation in Haryana. The successful bidder should maintain the inventory of required spare parts at the service centre(s).
10. Past performance of the firms shall be considered while evaluating the technical bids. If the bidder has poor record for providing after sales services to the Haryana during last five years than their bid may be rejected out rightly.
11. The bidder should have minimum average annual turnover 30% of the estimated bid value amounting to Rs.1152 lakhs in the last three years, ending 31st March of the previous Financial Year i.e. upto 2020-21.
12. Experience and Past Performance of having successfully completed similar contracts i.e. Solar Home Light System/Solar Street Light costing not less than the amount equal to 40% of the

estimated value of the bid quantity amounting to Rs.1536 lakhs, during last three years ending 31st March of the previous Financial year (2020-21), to Govt. / Semi Govt. Organizations.

13. The bidder should have positive net worth in the previous last three Financial Year i.e. upto 2020-21. *(Document to be uploaded: Certificate in given format)*
14. Bidder is required to submit a sample of the quoted product along with tender. Noncompliance shall in rejection of the bid.
15. Technical Catalogue of the product is required to be submitted along with the bid & same should be available on bidder's website.
16. Rate Contract will be made / valid for one year from the date of issue.
17. The rates quoted should be inclusive of GST and all other charges etc. (whichever applicable).
18. **Delivery period (includes supply, installation & commissioning):-** Three months from the date of placement of work order.
19. **Warranty:** - Five years from the date of commissioning (including batteries) and PV module(s) will be warranted for a minimum period of 25 years from the date of supply. PV modules used in Solar Home 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.
20. **Payment :-**
 - i. 60% payment will be released within one month time on submission of material receipt of physical delivery of inspected/ accepted goods in physically good condition at consignee go down on submission of bill of material supported by material receipt duly signed by PO/APO of the department/ office.
 - ii. 29% will be released within one month time after satisfactory installation / working of the items on submission of joint commissioning report (JCR) in the attached format duly signed by the user & PO/APO of the consignee department/ office with countersignature of head of the office.
 - iii. 10% payment to be released @2% at the end of each year for 5 years, on submission of satisfactory performance report of the systems duly certified by the concerned district officer and user OR The said amount may be released against the submission of bank guarantee of equal amount valid for five years from commissioning of the plant.
 - iv. 1% will be released after 25 years of satisfactory performance report of Solar Module.
21. Material shall be strictly as per DNIT specifications/requirement. If there is any left out specification, the same shall be considered as per the latest specification/requirements applicable as per BIS/International Standards. The bidders are advised to be well conversant with these specifications/requirements for their compliance.
22. The make and model of major components of the system i.e. Solar module, Solar Charger, Battery, Ceiling Fan and Luminaries (bulb/batten) should be strictly as per the make and model mentioned in the test report and sample submitted with the bid. Accordingly, the same should be mentioned in the technical bid.
23. In case of any complaint in the working of the items during the warranty period, the firm shall attend the same within 24 hours from the time of logging of first complaint / call by the consignee and the items must be repaired within three days thereafter. The complaints would be logged by

the Department officers by e-mail/ fax in order to keep the proper delivery records. Further in case of failure to do so, penalty @ 0.1 % of the system cost per day (subject to max. 10% of the cost) after expiry of 72 hours shall be imposed. If the firm does not attend the complaint within the max penalty period then the system may be got repaired/ replaced from the performance security amount. In case whole performance security amount is utilized and complaint/s are still pending then an online / registered notice will be sent to the firm to attend the complaint and if failed to attend the complaint within 7 days then firm may be blacklisted and a legal proceedings may be initiated against the firm for breach the agreement.

24. The applicable GST will be 8.9% as mentioned in the Govt. of India, Ministry of Finance Amendments, Notification No. 25/2018- Integrated Tax (Rate) and Notification No. 24/2018- Central Tax (Rate), Dated- 31st Dec. 2018 Section- B (vii), goods specified in entry S.No. 234 i.e. Solar Power Based Devices or Solar Power Generating System, are supplied with other goods and services then the value of goods shall be deemed as seventy Percent of the gross consideration charged for all such supplies i.e. to be charged at 5% GST , and the remaining thirty percent of the gross consideration charged shall be deemed as value of the said taxable services i.e. to be charged at 18% GST, thus amounting to an overall tax rate of 8.9%. Further, if any change /amendment in thereof, same will be applicable.
25. The price quoted should be FOR anywhere in the State of Haryana inclusive of all taxes and duties, custom duty, excise duty, service tax, sales tax, C.S.T., local taxes, GST, Income tax, Surcharge on income tax etc. If any, including 5 years warranty (or as notifies in the bid) of the complete system/plant. A supplier/contractor shall be entirely responsible for all taxes, duties, license fees, etc. All taxes payable as per Government income tax & service tax norms will be payable by the contractor. If any new tax/duty is levies during the contract period the same will be borne by the firm exclusively. TDS will be deducted from the payment of the contractor as per the prevalent laws and rules of Government of India and Government of Haryana State in this regard.
26. Under no circumstances will a father or his son or their close relation or the partner of one firm be allowed to tender as separate tender. A breach of this condition will cause the tenders of such parties liable for rejection, forfeiture of their earnest money and the firm may be black listed.
27. The firm (s) tendering shall clearly mention in their tender whether any of the close/near relative of their management/ management of sister concerned firms is in the employment of the HAREDA/Department of New & Renewable Energy, Haryana and in case their close/near relative is in employment of the HAREDA/Department of New & Renewable Energy, Haryana then his/her name, designation and place of posting to be mentioned.

If the tendering firm not disclose and furnish the correct information as required in above clause, then his earnest money and/or Performance Security Deposit may be forfeited and in case the contractor has been awarded the work, the same may be cancelled. For concealing any information the firm may be black listed.

Note:

The word "Close/Near Relative" mentioned in the above clause means father, mother, brother, sister, brother-in-law, sister-in-law, daughter-in-law, daughter, father-in-law, mother-in-law, son, son-in-law, first cousin of self/spouse, spouse, father-in-law and mother-in-law of son/daughter.

28. Bidder who is manufacturer of Solar PV Modules or Solar Cells or Lithium battery and manufacturing the said item (s) in its unit and having valid test report of, tested as per MNRE, GOI latest guidelines/BIS for minimal technical specifications of the tender document in its own name (the bidder) issued by MNRE/NABL/IEC accredited testing center shall be treated as manufacturer for getting the benefits of concession under MME/MSME policy. The test report shall be issued by

the date of closing the tender and shall be valid as on date of opening of the technical bid. The bidder shall have manufacturing facility of the said item, with testing facility, in its unit.

29. If any bidder provides false information or conceals the facts regarding debarred/blacklisted, experience, turnover or other conditions mentioned in this tender, Nodal agency reserves the right to forfeit both EMD & Performance Bank Guarantee of the bidder, to black list the bidders, to cancel the contract and other punitive action.

Note:

The format of the Technical Bid/ Index for the Technical Bid Documents will be as per **Annexure-IA** of this document and the bidders are requested to upload their Technical Bids on the Portal with index as provided in **Annexure-IA**.

In case of non submission of required Eligibility Documents as at Annexure-IA, the bid of the firm will not be considered and no further chance will be given for the submission of these documents. However, clarification, if any, of already submitted documents may be obtained in case required as per the rules.

D. Standard Terms and Conditions:

(Wherever applicable these terms & conditions will overrule the specific terms and conditions as at Para 'C' above):-

1. All the annexure from 'Annexure-1 to 12' including 'Schedule-B of Supply' as part of this present DNIT are available as 'Tender Forms' at Link <http://dsndharyana.gov.in/Portals/0/Tender%20form/Tender%20Forms%2016.12.2020.zip?ver=2020-12-18-122317-777> or the same can be downloaded from home page of <http://dsndharyana.gov.in/en-us/> under 'Downloads' > 'Tender Form'.

2. Procurement of Stores through Rate Contract System:-

Where ever Government considers expedient that more than one supplier/ manufacturers should be kept on rate contract, it may so decide on case to case basis subject to conditions available at **Annexure '1'**.

3. EMD:-

The firms are required to deposit Earnest Money as indicated above failing which the tenders are liable to be rejected. Manufacturing Micro & Small Enterprises (MSEs) of the State, Startups/ First Generation Entrepreneurs of the State, Central or Haryana Public Sector Enterprises and "approved sources" as declared by the Industries Department, Haryana, are exempt from the deposit of EMD. The condition at Sr. No. 7 of "Instructions to Tenderers of the TENDER FORM" shall be deemed to be amended to this extent as per provisions contained at Para 13(i)(ii) of G.O. No.2/2/2010-4I-BII of dated 28.05.2010 (**Annexure-2**), Para no 3(A)(ii) of G.O. No. 2/2/2016-4I BII (1) of dated 20.10.2016 (**Annexure-3**) and Sr. No. 2 of the Table of G.O. No.2/2/2016-4IB-II dated 03.01.2019 (**Annexure-4**) (or as amended from time to time in this regard)

The condition at Sr. No. 6 of Annexure "A" – "Conditions with TENDER FORM" shall be deemed to be cancelled. (amendments with effect from may 28, 2010)

4. Performance Security:

The successful tenderer shall be required to deposit Performance Security Deposit as per provisions contained in Govt. of Haryana G.O. No. DGS&D/Admin/performance Security/2020/8780-8959 dated 14.12.2020 (**Annexure-5**) as under:-

Sr. No.	Type of Firm/Enterprises	Value of Performance Security Deposit
1	Haryana based firms:- (i) # Haryana Based Micro and Small Enterprises (MSEs) (ii) Haryana based other firms/enterprises	(i) @0.2% of the value of contract (ii) @2% of the value of contract
2	Other States/ UTs based firms	@3% of the value of contract
<i># Haryana based MSEs will be eligible for performance security deposit @ 0.2% who have filed SSI Certificate/EM Part-II/Udyog Aadhaar Memorandum (UAM)/Udyam Registration in Haryana and who participate directly in the tendered/quoted items and offering to supply the entire Work/Supply Order by their enterprise.</i>		
The conditions governing the above may kindly be seen in the notification dated 14.12.2020.		

The performance security in excess of the EMD already deposited can be submitted in the shape of Demand Draft/Call Deposit Receipt/Banker's Cheque or in the shape of equivalent Bank Guarantee of any scheduled bank with branch in Chandigarh/ Panchkula. The condition at Sr. No. 8 of "Instructions to Tenderers of the TENDER FORM" shall be deemed to be amended to this extent as per provisions contained G.O. No. DGS&D/Admin/performance Security/2020/8780-8959 dated 14.12.2020 (**Annexure-5**) (or as amended from time to time in this regard)

5. Price Fall Clause:

Price fall clause will be as per condition no. 15 of "General Conditions of Supply" as available at **Annexure-10**. The same is that the price quoted in the tender/quotation or approved in the Rate Contract for the stores shall not exceed in any way the lowest price at which the tenderer quote for the supply the stores of identical description to DGS&D, New Delhi/ State Government Institutions/Undertakings/any other person during the delivery period/currency period of the rate contract. If, at any time during the delivery period/currency period, the successful tenderer reduces the rates/sale price of the quoted stores to any person at the price lower than the price chargeable under the supply order/ rate contract, the tenderers should forthwith notify such reduction and inform this office and the price payable under the supply order/contract for the stores supplied after the date of coming into force of such reduction of the rates shall stand correspondingly reduced to that level. The successful tenderers shall promptly notify the reduction of rates to this office as well as to the concerned Indenting Officer/ Consignees. The tenderer shall also give a certificate on their bills that the rates charged by them are not in any way higher to those quoted by them to the DGS&D, New Delhi and other State Government etc., during the corresponding period. The Indenting Officer shall be required to ensure that requisite certificate is given by the concerned firm on the bills before releasing their payments.

- 6. Penalty to firm on Delay in delivery:** Should the contractor fail to deliver or dispatch any consignment within the period prescribed for such delivery or dispatch stipulated in the supply order, the delayed consignment will be subject to 2% penalty per consignment per month recoverable on the value of the stores supplied. The other details will be as per provision contained in Sr. No. 14 of "Schedule-'B' Condition of Contract".
- 7.** The bidders are required to quote the basic rates, the delivery/ transportation costs/ applicable GST and duties etc, and the place of billing for the supply of stores clearly and separately. The bidders are required to intimate the place of billing.

8. Penalty Clause for Department/ Govt. Agencies for delay in Payment

Delay in payments to the suppliers beyond the stipulated credit period indicated in the supply order, unless supported by cogent reasons and approved by a higher authority, will attract penal interest on the defaulting amount @ Rs. 25/- per rupees one lakh per day of delay beyond the stipulated credit period. Non provision of adequate budget will be no ground for delay in payments to the supplier. This is as per provisions contained at Para 17 of G.O. No.2/2/2010-4I-BII of dated 28.05.2010 (or as amended from time to time in this regard)

9. Negotiation of Rates

Regarding negotiations of rates, policy issued by the State Government vide G.O. No.2/2/2010-4-IB-II dated 18.06.2013 (**Annexure-1**), G.O. No.2/2/2010-4-IB-II dated 16.06.2014 (**Annexure-6**), G.O. No.2/2/2010-4-IB-II dated 09.02.2015 (**Annexure-7**) will be applicable.

10. Concession to MSMEs of State:

The State Government has notified "Haryana State Public Procurement Policy for MSME -2016" vide G.O. No. 2/2/2016-4I BII(1) dated 20-10-2016 (**Annexure-3**) and amendment vide G.O. No. 2/2/2016-4IB-II dated 11.12.2019 (**Annexure-8**) which will be applicable in respect of concessions to Haryana based MSMEs and KVIs. For claiming the relevant concession/s like Tender Fee, Earnest Money Deposit (EMD), Turnover, Exemption in respect of Past Performance & Experience, Purchase Preference and Performance Security, the bidders are required to submit the documentary proof from Government authorities showing that they come under Haryana based manufacturing MSME/KVI units as the case may be e.g. *Entrepreneurs Memoranda in Haryana in bidder's name and further subject to fulfillment of eligibility criteria as provided in the said Policy of 2016.

***Note:-**

To claim the concessions/benefits under the above policy, the bidder is required to submit Manufacturing Entrepreneurs Memorandum issued by the Industries Department Haryana in respect of the quoted item or Udhyog Aadhaar Memorandum (UAM) of Haryana based manufacturing enterprises in respect of the quoted item (*Ref. Industries & Commerce Department Haryana Memo No.TS/DS&D/11389-A Dated 03.07.2018*) and further subject to fulfillment of eligibility criteria as provided in the said Policy of 2016 and amendments from time to time.

11. Concession/benefits to Startups/First Generation Entrepreneurs of State:

The State Government has notified "Concession/benefits in Public Procurement to Startups/First Generation Entrepreneurs of State" issued vide G.O. No. 2/2/2016-4I B-II dated 03.01.2019

(Annexure-4) which will be applicable in respect of concessions to Startups/First Generation Entrepreneurs of State. For claiming the relevant concession/s like Tender Fee, Earnest Money Deposit (EMD), Turnover, Exemption in respect of Past Performance & Experience, Purchase Preference and Performance Security, the bidders are required to submit the documentary proof as per the said policy.

12. In case of evidence of cartel formation by the bidder(s), the EMD is liable to be forfeited along with other actions as are permissible to Government like filing complaints with the Competition Commission of India and/ or other appropriate forums.

13. Purchase Preferences for approved Sources

The Director, Supplies & Disposals, Haryana, reserves the right to allow purchase preference to the approved sources, including Central or Haryana State Public Sector Undertakings/Enterprises, provided that such approved source takes part in the bidding process and the quoted prices of the approved source is within 10% of the lowest acceptable price, other things being equal. However, such purchase preference would be available to the approved source only at the lowest acceptable price. The latest list of Approved Source is contained in Government Order no. 6/03/2007-41B-II dated: 14-02-2008 of the Industries Department and is subject to further amendment from time to time.

14. Penalty clause for rejected samples/ material offered by the Bidder:

In case, the material offered for inspection by the firm fails to meet the specifications stipulated in NIT/Order/Contract and the samples are rejected by the Inspecting Committee, the Indenting Department will have the right to levy a penalty at 0.1% of the total order value. In case, the material offered for inspection fails during the 2nd inspection also, the Indenting Department will have the right to increase the penalty to 0.25% of the total order value. In case, the material offered fails during the 3rd and final inspection also, the firm will be liable for penal action including forfeiture of security, risk purchase, debarring/ blacklisting in future, and no further opportunity for inspection would be provided to the supplier firm.

15. Grievance Redressal Mechanism for dealing with the representations/ complaints/ letters of the participating bidders/ firms:

A time bound Grievance Redressal Mechanism for dealing with the representations/ complaints/ letters of the participating bidders/ firms in the tendering process in the State Public Procurement will be governed by State Government Policy issued vide G.O No.2/2/2016-41-B II of dated 25.07.2016 (Annexure-9). All the bidders/ firms who want to make any representation/ complaint against any issue related to their technical scrutiny of the bids may do the same within 5 working days (up to 05:00 P.M. of the Fifth Working day) of the date of issue of letter/ intimation regarding their **As per NIT/ Not as per NIT status**. They have to ensure that their communication is delivered/ reached within 5 working days and delay in postal will not be counted as a valid reason. No representation/ complaint in whatsoever manner from the bidders/ firms will be entertained after the opening of Financial Bid.

16. **Preference to Make in India:-** The public procurement in the State in reference to “ Preference to make in India” shall be governed by Govt. Order No.02/08/2020-41B-II dated 18.11.2020 (Annexure-11)

17. Restriction in Public procurement from bidders of certain Countries:- The restriction on procurement from bidders from a Country or Countries on grounds of Defense of India or matters directly or indirectly related thereto including National Security shall be governed by Govt. Order No.02/09/2020-4IB-II dated 10.12.2020 (**Annexure-12**).

18. Arbitration Clause

The Arbitration if any will be decided as per the provision contained at Sr. No.18 of “Schedule ‘B’ Conditions of Contract”

19. Jurisdiction

All disputes will be settled within the jurisdiction of the Head Quarters of Director, Supplies & Disposals, Haryana at Panchkula

E. OTHER TERMS AND CONDITIONS

1. The firms are required to mention bifurcation of their rates showing the detail of Basic Rates, GST, Duties etc. in their bid. In case, the supplies are delayed by the firm beyond the stipulated delivery period & there has been any upward revision in the rates of GST/ Duties ON THE CONTRACTED ITEM, no such increase will be allowed. However, if there has been any reduction in GST/Duties, the same will be availed. No variation in GST/ Duties on raw material will be applicable.
2. All documents to be submitted by the tenderers with their offer should be self attested in case the same are copies of original documents.
3. The Earnest money of the tenderers will be forfeited to Govt. account and blacklisting/ debarring besides other penal action, if they withdraw their offer/ rates or modify the terms & conditions of the same at any time during the validity of their offer before acceptance.
4. The authorized dealer should submit authority letter of their manufacturer, to quote the rates on their behalf failing which tender is liable to be rejected.
5. When manufacturer as well as its dealer/s both quote the rates in the same purchase case, then for the purpose of distribution of order, they will be considered as one offer & the order/rate contract will be placed on that firm only which has quoted lower rates among such offers & the offer is as per NIT.
6. The Bid i.e. Technical Bid as well as Financial Bid is to be submitted online on web portal <https://etenders.gov.in/e procure/app>. The Technical Bids uploaded on the portal should have proper indexing and page numbering on all the documents forming the Technical bid. Any supporting documents if required is to be submitted in online mode only along with their Technical Bids by due date and time.
7. The Financial bid/s of only those bidders/ items will be opened who qualify on the basis of their Technical Bids and wherever required approval of samples. The date & time of opening of the Financial bids will be intimated in the due course.
8. The offer without prescribed Earnest Money, Tender Fee & E-Service fee is liable to be summarily rejected. The deficiency in the remaining documents and tender requirement can be made subject to the decision by Director, Supplies & Disposals, Haryana, Panchkula
9. The quantity of Stores can be increased or decreased.
10. Notwithstanding anything contained in the Tender, Supplies & Disposals Department Haryana reserves the right to accept or reject any Bid, and to cancel the bid process and reject the Tender, at any time, without thereby incurring any liability to the affected Bidder or Bidders and without any obligation to inform the participating/affected Bidder (s) the reason for such decision.

11. **Other terms & conditions as contained in various Annexure/ Documents as available under the folder "TENDER FORMS" as available at the link http://dsndharyana.gov.in/Portals/0/documents/Tender%20Forms%20DSnD_11042019.zip?ver=2019-06-20-103057-847 or the same can be downloaded from home page of <http://dsndharyana.gov.in/en-us/> under 'Downloads' > 'Tender Form' form part of this DNIT.**

12. **Instructions to bidder on Electronic Tendering System.**

Registration of bidders on e-Procurement Portal, Information about Digital Certificate, Instructions about Online Payment of Tender Document fee/e-Service Fee/Earnest Money, Important Instructions & Help manual for online bidding and other General issues option available on Home page of NIC e-procurement portal i.e <https://etenders.hry.nic.in>.

In case bidders need any clarifications or if training required to participate in online tenders they can contact office Timings of Help-desk support & Contract Details:-

The detail may be seen under "Contract US" option available on Home Page of NIC e-Procurement portal i.e <https://etenders.hry.nic.in>.

For support related to Haryana Tenders in addition to Helpdesk:-

In addition, For support related to Haryana Tenders in addition to helpdesk you may also contract to following:-

E - mail: eproc.nichry@yahoo.com

Desk: 0172-2700275

Additional Director/ Assistant Director,
For & on behalf of Governor of Haryana

Annexure-I

TECHNICAL SPECIFICATIONS FOR 150 WATT SOLAR HOME SYSTEMS (DC MODEL) FOR ANGANWARI CENTERS

Model 1

- SPV Module (with Module Mounting Structure) :150 Wp under STC
- Battery : 12.8V, 100Ah; Lithium Ferro phosphate (LiFePo4)
- Solar Charge Controller: 12V, 12-15 A with LCD display
- Load :
 - 3 nos. of White Light Emitting Diode (W-LED) Luminaries (max. 6.0 Watts each)
 - 2 no. of D.C. Ceiling Fan of 48 Inch/1200 mm (22 Watts \pm 10%) (BLDC type)
 - Provision for 2 ports for operating the radio and USB for mobile phone charging (5V, 1A)

BROAD PERFORMANCE SPECIFICATIONS

PV module	150Wp under STC (with Module Mounting Structure)
Light source	<ul style="list-style-type: none">• 3 Nos. of White Light Emitting Diode (Bulb/Batten) Luminaire (max. 6.0 Watts each). The wattage of the LED used in the luminaire should be such that the total input power consumption by the luminaire is not more than 6 W (including the LED driver consumption). The LED lights should meet the latest BIS specification (IS 10322 (Part 5/Sec I):2012)
Light Output	<ul style="list-style-type: none">• 3 nos. of 6W, LED Luminaire(Bulb/Batten): Minimum 32 Lux for each luminaire when measured from a height of 2.5 meter in an area of 2.5 meter diameter. The light should be glaze free and should not have any shadow band. The uniformity of light should not be less than 0.7
Loads in addition to the Lights	<ol style="list-style-type: none">1. Two 48 inch/1200 mm DC ceiling Fan (22.0 Watt \pm 10%), BLDC type2. Provision for 2 ports for operating the radio and USB for mobile phone charging (5V, 1A)
Battery	Lithium Ferro phosphate (LiFePo4)
Charge controller	<p>The charge controller should be of MPPT type and its PV charging efficiency should be >90%</p> <p>The charge control system must have 2 separate ports for connecting the various loads. It should be mentioned on the Charge Controller that these ports are for radio operation and mobile charging only.</p>
Working temperature	0 ⁰ - 45 ⁰ C
Autonomy of System	Minimum 10 hrs

TECHNICAL DETAILS

PV MODULE (S)

- I. Domestically manufactured PV Module with domestically manufactured solar PV cells should be used. Further, the models and manufacturers of PV Modules shall be included in the List of Models and Manufacturers for Solar PV Modules empanelled by MNRE as per its ALMM order (and shall also valid at the time of supply of material) from time to time.
- II. The PV modules should be made up of crystalline silicon solar cells and the Photovoltaic modules must be BIS certified as per IS 14286 and in addition modules must confirm to IS/IEC 61730-1 requirement for construction and part-2 requirement for testing, for safety qualifications.
- III. The module efficiency should not be less than 15%. Module shall consists of Solar Cell of minimum 5 Bus Bar technology. The Potential Induced Degradation (PID) test for solar modules will be mandatory. It should be valid during the operational period.
- IV. The terminal box on the module should have a provision for opening, for replacing the cable, if required.
- V. The module should have the following minimum information laminated inside the module:
 - a. Name of the Manufacturer or Distinctive Logo.
 - b. Model Number (it should indicate the voltage and rated wattage of the module)
 - c. Serial Number
 - d. Year of manufacture
 - e. HAREDA logo (which is available on-line)
 - f. Made in India

BATTERY

- I. The battery should be Lithium Ferro phosphate having Nominal capacity of 100Ah and Nominal voltage of 12.8V. The minimum capacity of individual cell shall be 3.2V nominal 20Ah with 2C rating and voltage range of 10V to 14.6 V.
- II. The Lithium Ferro Phosphate battery should have appropriate Battery Management System (BMS) to ensure the proper charging and discharging of each cell of battery with proper protection of battery when temperature is reaching beyond permissible limit.
- II. 90 % of the rated capacity of the battery should be between fully charged & load cut off conditions.
- III. Battery should BIS certified with IS16046:(Part 2):2018 from approved laboratory

LIGHT SOURCE

- i. The luminaries (Bulb/Batten) should use white LEDs. The colour temperature of white LEDs should be in the range of 5500° K – 6500°K. Use of LEDs which emit ultraviolet light will not be permitted.

- ii. The light output from the white LED light source should be constant through-out the operation of the lights. LED of Minimum 130 Lumens per watt shall be used in the Luminaries. The luminaries shall have minimum 100 Lumen per watt
- iii. 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 20° 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.
- iv. The luminaries must use the optics and diffuser in order to have uniform and glaze free light.
- v. 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.
- vi. All Luminaries should have ON/OFF switch and fuse.

FAN

The ceiling fan should be 12 volt DC operated with following minimum requirement and the registered manufacturer of the fan should have a valid test report from any of the BIS/NABL/Govt. approved test laboratory for the same:

- i. The fan should be 12V DC operated and ceiling type of size 48 inch/1200 mm
- ii. Type of motor: BLDC motor
- iii. Rated voltage: 12 Volt
- iv. Operating Voltage range: 9 Volt to 15 volt
- v. Blade diameter : 48 inch/ 1200 mm
- vi. Blade: Three leaves Aluminum Powder Coated
- vii. Power consumption - 22 Watt ($\pm 10\%$)
- viii. Speed : 3 Electronically controlled
- ix. RPM >320 at 12V battery voltage

ELECTRONICS

- i. The charge controller should be of MPPT type
- ii. Electronics should operate at 12 V and should have adequate temperature compensation arrangement for proper charging of the battery throughout the year.
- iii. Necessary lengths of wires / cables, switches and fuses should be provided.
- iv. The system should have separate ports for connecting each load.
- v. The system should have 2 USB ports for connecting loads.
- vi. The idle current i.e. when there is no load and no display, should be less than 40 mA respectively.
- vii. The voltage drop from module terminals to the battery terminals and from battery terminals to loads should not exceed 0.3 volts including the dropage across the diode and the cable when measured at maximum charging current.
- viii. The PCB containing the electronics should be capable of solder free installation and replacement.
- ix. DC operated switches and regulators should be used.

ELECTRONICS PROTECTION

- 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 >12.5V and low cut-off should be at 11.3 V ($\pm 0.2V$).
- 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. Corrosion resistant frame structure should be provided to hold the SPV module.
- ii. 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.
- iii. Light source should be either for wall mounted or ceiling mounted or can be hung from the ceiling in a stable manner, as per site requirements.
- iv. A vented plastic/ wooden/ metallic box with acid proof corrosion resistant paint for housing the storage battery indoors should be provided.

INSTALLATION OF SYSTEM

Modules shall be mounted on supporting structure made out of hot dip galvanized iron angle of required structural strength (hot dip galvanized) either on the roof top or at ground as per the site requirement

- i. The size of M.S. (Galvanized) angle should be 32 x 32 x 3 mm. The structures are to be fitted either on the roof top or at ground properly and south faced. It should withstand wind speed up to 120 Km/hour.
- ii. Foundation – The legs of the structure made with hot dip GI angles will be fixed and grouted in the RCC foundation columns of size atleast 250mmx250mmx150mm made with 1:2:4 cement concrete. While making foundation design due consideration will be given to weight of module assembly and maximum wind speed of 120 km per hour.
- iii. The work includes necessary excavation, concreting, back filling, shoring and shuttering etc.
- iv. Any minor items which are not specifically included in the scope of supply but required for proper installation and efficient operation of the SPV systems, is to be provided by the manufacturer as per standards.

ELECTRIC CABLE

- i. The electric cable used to connect module to charge controller and charge controller to battery shall be twin core PVC insulated water and UV resistance copper cable of minimum size of 4.0 mm². Cable shall meet IS 1554 / 694 Part 1:1988 & shall be of 650 V/1.1 kV.
- ii. Other cables of appropriate size should be used to keep electrical losses to a bare minimum.
- iii. All wiring should be in a proper conduit or capping case. Wire should not be hanging loose.
- iv. Wiring should be joint less and switches & fan regulator should be of appropriate value and suitable for DC operation.

INDICATORS

The system should have LCD display to indicate charging under progress, load cut-off etc.

QUALITY AND WARRANTY

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

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

OPERATION AND MAINTENANCE MANUAL

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

- Basic principles of Photovoltaic.
- A small write-up (with a block diagram) on Solar Home System – its components, PV module, battery, electronics and luminaire and expected performance.
- Significance of indicators
- Type, Model number, voltage & capacity of the battery, used in the system.
- 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.
- Clear instructions about mounting of PV module(s).
- Clear instructions on regular maintenance and trouble shooting of the Solar Home System.
- DO's and DONT's.
- Name and address of the contact person for repair and maintenance.

150 WATT SOLAR HOME SYSTEMS (DC MODEL) MANOHAR JYOTI

Model-2

- SPV Module (with Module Mounting Structure) :150 Wp under STC
- Battery : 12.8V, 80Ah; Lithium Ferro phosphate (LiFePo4)
- Solar Charge Controller: 12V, 12-15 A with LCD display
- Load :
- 2nos. of White Light Emitting Diode (W-LED) Luminaries (max. 6.0 Watts each)
1 No. of White Light Emitting Diode (W-LED) tube light (batten type) (max. 9.0 Watts).
- 1 no. of D.C. Ceiling Fan of 48 Inch/1200 mm (25 Watts \pm 10%) (BLDC type)
- Provision for 1 USB ports (5V, 1A)

BROAD PERFORMANCE SPECIFICATIONS

PV module	150Wp under STC (with Module Mounting Structure)
Light source	<ul style="list-style-type: none"> • 2 Nos. of White Light Emitting Diode (W-LED)Luminarie (max. 6.0 Watts each). The wattage of the LED used in the luminaire should be such that the total input power consumption by the luminaire is not more than 6 W (including the LED driver consumption). • 1 No. of White Light Emitting Diode (W-LED) tube light (batten type) (max. 9.0 Watts each). The wattage of the LED used in the luminaire should be such that the total input power consumption by the luminaire is not more than 9W (including the LED driver consumption). The LED lights should meet the latest BIS specification (IS 10322 (Part 5/Sec I):2012)
Light Output	<ul style="list-style-type: none"> • 2 nos. of 6W, LED Luminaire: Minimum 32 Lux for each luminaire when measured from a height of 2.5 meter in an area of 2.5 meter diameter. • One 9.0 W LED tube light: Minimum 18 Lux when measured from a height of 2.5 meter in an area of 2.5 meter diameter. <p>The light should be glaze free and should not have any shadow band. The uniformity of light should not be less than 0.7</p>
Loads in addition to the Lights	<ol style="list-style-type: none"> 1. One 48 inch/1200 mm DC ceiling Fan (25.0 Watt \pm10%), BLDC type 2. Provision for 1 USB port (5V, 1A each)
Battery	Lithium Ferro phosphate (LiFePo4)
Charge controller	<p>The charge controller should be of MPPT type and its PV charging efficiency should be >90%</p> <p>The charge control system must have one separate port for connecting the various loads. It should be mentioned on the Charge Controller that this port for mobile</p>

	charging only.
Working temperature	0 ⁰ - 45 ⁰ C
Autonomy of System	Minimum 10 Hrs

TECHNICAL DETAILS

PV MODULE (S)

- i. Domestically manufactured PV Module with domestically manufactured solar PV cells should be used. Further, the models and manufacturers of PV Modules shall be included in the List of Models and Manufacturers for Solar PV Modules empanelled by MNRE as per its ALMM order (and shall also valid at the time of supply of material) from time to time.
- ii. The PV modules should be made up of crystalline silicon solar cells and the Photovoltaic modules must be BIS certified as per IS 14286 and in addition modules must confirm to IS/IEC 61730-1 requirement for construction and part-2 requirement for testing, for safety qualifications.
- iii. The module efficiency should not be less than 15%. Module shall consists of Solar Cell of minimum 5 Bus Bar technology. The Potential Induced Degradation (PID) test for solar modules will be mandatory. It should be valid during the operational period.
- iv. The terminal box on the module should have a provision for opening, for replacing the cable, if required.
- v. The module should have the following minimum information laminated inside the module:
 - a. Name of the Manufacturer or Distinctive Logo.
 - b. Model Number (it should indicate the voltage and rated wattage of the module)
 - c. Serial Number
 - d. Year of manufacture
 - e. HAREDA logo (which is available on-line)
 - f. Made in India

BATTERY

- i. The battery should be Lithium Ferro phosphate having Nominal capacity of 80Ah and Nominal voltage of 12.8V. The minimum capacity of individual cell shall be 3.2V nominal 20Ah with 2C rating and voltage range of 10V to 14.6 V.
- ii. The Lithium Ferro Phosphate battery should have appropriate Battery Management System (BMS) to ensure the proper charging and discharging of each cell of battery with proper protection of battery when temperature is reaching beyond permissible limit.
- iii. 90 % of the rated capacity of the battery should be between fully charged & load cut off conditions.
- iv. Battery should BIS certified with IS16046:(Part 2):2018 from approved laboratory

LIGHT SOURCE

- i. The luminaries (Bulb/Batten) should use white LEDs. The colour temperature of white LEDs should be in the range of 5500° K – 6500°K. Use of LEDs which emit ultraviolet light will not be permitted.
- ii. The light output from the white LED light source should be constant through-out the operation of the lights. LED of Minimum 130 Lumens per watt shall be used in the Luminaries. The luminaries shall have minimum 100 Lumen per watt
- iii. 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 20° 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.
- iv. The luminaries must use the optics and diffuser in order to have uniform and glaze free light.
- v. 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.
- vi. All Luminaries should have ON/OFF switch and fuse.

FAN

The ceiling fan should be 12 volt DC operated with following minimum requirement and the registered manufacturer of the fan should have a valid test report from any of the BIS/NABL/Govt. approved test laboratory for the same:

- i. The fan should be 12V DC operated and ceiling type of size 48 inch/1200 mm
- ii. Type of motor: BLDC motor
- iii. Rated voltage: 12 Volt
- iv. Operating Voltage range: 9 Volt to 15 volt
- v. Blade diameter : 48 inch/ 1200 mm
- vi. Blade: Three leaves Aluminum Powder Coated
- vii. Power consumption - 25 Watt ($\pm 10\%$)
- viii. Speed : 3 Electronically controlled
- ix. RPM >320 at 12V battery voltage

ELECTRONICS

- i. The charge controller should be of MPPT type
- ii. Electronics should operate at 12 V and should have adequate temperature compensation arrangement for proper charging of the battery throughout the year.
- iii. Necessary lengths of wires / cables, switches and fuses should be provided.
- iv. The system should have separate ports for connecting each load.
- v. The system should have 1 USB ports for connecting loads.
- vi. The idle current i.e. when there is no load and no display, should be less than 40 mA respectively.
- vii. The voltage drop from module terminals to the battery terminals and from battery terminals to loads should not exceed 0.3 volts including the dropage across the diode and the cable when measured at maximum charging current.
- viii. The PCB containing the electronics should be capable of solder free installation and replacement.
- ix. DC operated switches and regulators should be used.

ELECTRONICS PROTECTION

- 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 >12.5V and low cut-off should be at 11.3 V ($\pm 0.2V$).
- 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. Corrosion resistant frame structure should be provided to hold the SPV module.
- ii. 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.
- iii. Light source should be either for wall mounted or ceiling mounted or can be hung from the ceiling in a stable manner, as per site requirements.
- iv. A vented plastic/ wooden/ metallic box with acid proof corrosion resistant paint for housing the storage battery indoors should be provided.

INSTALLATION OF SYSTEM

Modules shall be mounted on supporting structure made out of hot dip galvanized iron angle of required structural strength (hot dip galvanized) either on the roof top or at ground as per the site requirement

- i. The size of M.S. (Galvanized) angle should be 32 x 32 x 3 mm. The structures are to be fitted either on the roof top or at ground properly and south faced. It should withstand wind speed up to 120 Km/hour.
- ii. Foundation – The legs of the structure made with hot dip GI angles will be fixed and grouted in the RCC foundation columns of size atleast 250mmx250mmx150mm made with 1:2:4 cement concrete. While making foundation design due consideration will be given to weight of module assembly and maximum wind speed of 120 km per hour.
- iii. The work includes necessary excavation, concreting, back filling, shoring and shuttering etc.
- iv. Any minor items which are not specifically included in the scope of supply but required for proper installation and efficient operation of the SPV systems, is to be provided by the manufacturer as per standards.

ELECTRIC CABLE

- i. The electric cable used to connect module to charge controller and charge controller to battery shall be twin core PVC insulated water and UV resistance copper cable of minimum size of 4.0 mm². Cable shall meet IS 1554 / 694 Part 1:1988 & shall be of 650 V/1.1 kV.
- ii. Other cables of appropriate size should be used to keep electrical losses to a bare minimum.
- iii. All wiring should be in a proper conduit or capping case. Wire should not be hanging loose.
- iv. Wiring should be joint less and switches & fan regulator should be of appropriate value and suitable for DC operation.

INDICATORS

The system should have LCD display to indicate charging under progress, load cut-off etc.

QUALITY AND WARRANTY

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

OPERATION AND MAINTENANCE MANUAL

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

- Basic principles of Photovoltaic.
- A small write-up (with a block diagram) on Solar Home System – its components, PV module, battery, electronics and luminaire and expected performance.
- Significance of indicators
- Type, Model number, voltage & capacity of the battery, used in the system.
- 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.
- Clear instructions about mounting of PV module(s).
- Clear instructions on regular maintenance and trouble shooting of the Solar Home System.
- DO's and DONT's.
- Name and address of the contact person for repair and maintenance.

INFORMATION IN SUPPORT OF MEETING ESSENTIAL ELIGIBILITY CONDITIONS REGARDING AVERAGE ANNUAL TURNOVER OF THE BIDDER IN LAST THREE FINANCIAL YEAR ENDING 31.3.2021

Annual turnover of the bidder in last three financial year:

Name of Bidder:

Annual turnover data for last three years ending on 31 st March 2021			
S.No.	Year	Turnover (Rs. In Lacs)	Turnover Rupees in words
1.	2018-19		
2.	2019-20		
3.	2020-21		
4.	Average turnover in last three years ending on 31 st March 2021 $= (1+2+3)/3$		

Signature with seal of bidder

Dated:

Signature of Chartered Accountant with seal

Name _____

Name of CA Company: _____

M.No. _____

Note:

1. Bidder must complete the information in this form.
2. The information provided shall be certified by Chartered Accountant.

DECLARATION BY THE BIDDER

(To be submitted on letter head of Bidder)

Reference No:

Date:

To

The Director General,
New & Renewable Energy Department,
Panchkula (Haryana),

Subject: Supply, installation and commissioning of LED Based Solar Home System for Anganwari Centres of the Haryana State and LED Based SPV Home Lighting System (Manohar Jyoti) with five years warranty of complete system.

Madam/ Sir,

1. We have read and examined the tender documents relating to the subject cited works (hereinafter referred to as "Works") as issued by you:
2. Having examined the Tender Documents and being duly authorized we, hereby, bid for the execution, and completion of the Works referred to in the Tender Documents upon the terms and conditions contained or referred to therein and in accordance to all respects with the specifications and other details given therein.
3. 'PURCHASER' and its authorized representatives are hereby authorized to conduct any inquiries or investigations to verify the statements, documents, and information submitted in connection with this Bid, and to seek clarifications from our bankers and employers regarding any financial and technical aspects. This Bid shall also serve as authorization to any individual or authorized representative of any institution referred to in the supporting information to provide such information deemed necessary and as requested by you to verify statements and information provided in this application, such as the resources, experience, and competence of the Bidder.
4. We agree to keep this Bid open for acceptance for 180 days from the date of opening of Financial Bid, or such other extended period as may be required by you and also agree not to make any modifications in its terms and conditions of our own accord.
5. We agree if we fail to keep the validity of Bid open, as aforesaid, or we make any modification in the terms and conditions of our Bid of our own accord or after the acceptance of our Bid if we fail to execute an Agreement as prescribed in the Tender Documents or commence the execution of the works as provided in the Tender Documents, we shall become liable for forfeiture of the Earnest Money Deposit. In such an event you shall, without prejudice to any other right or remedy, be at liberty to forfeit the Earnest Money Deposit absolutely and take other actions as per terms & conditions of the contract.
6. We certify that the Bid submitted by us is strictly in accordance with the terms, conditions, specifications etc. as contained in the Tender Documents, and it is further certified that it does not contain any deviations to the aforesaid documents.
7. The bid is made with the full understanding that:-

- a. Bids by qualified bidders will be subject to verification of all information submitted for qualification at the time of bidding
- b. PURCHASER reserves the right to:
 - i. Amend the scope and value of any work bid under this tender.
 - ii. Reject or accept any application, cancel the tender process and reject all bidders by giving a written notice.
8. PURCHASER shall not be liable for any actions taken under (b) i and ii above.
9. We undertake, if our bid is accepted, and on receipt of the work order to commence the works and to complete and deliver the whole of works comprised in the contract within the period stated and in compliance with the tender documents.
10. If our bid is accepted, we will furnish Performance Security Deposit as per terms & conditions mentioned in EOI.
11. We understand that you are not bound to accept the lowest or any bid you may receive.
12. All the major items like module, interface charge controller, wire etc. should be indigenously made.
13. We are capable of executing and completing the work as required in the tender.
14. We accept all risks and responsibilities directly or indirectly connected with the performance of the tender.
15. We have no collusion with other Bidder, any employee of DNRE & HAREDA or with any other person or firm in the preparation of the bid.
16. We have not been influenced by any statement or promises of DNRE &HAREDA or any of its employees, but only by the tender document.
17. We are financially solvent and sound to execute the work.
18. We have sufficient experience and competent to perform the contract to the satisfaction of DNRE &HAREDA.
19. We are 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.
20. Our company has never been debarred from similar type of work by DNRE &HAREDA and or any of the Government undertaking/Department.
21. We assure to execute the tendered work as per specifications, terms and conditions of the contract. If awarded to us.
22. The undersigned declare that the statements made and the information provided in the Bid including the completed applications and formats are complete, true, and correct in all aspects.

We have gone through carefully all the Bid conditions and solemnly declare that we will abide by any penal action such as disqualification or black listing or termination of contract or any other action deemed fit, taken by, the Department against us, if it is found that the statements, documents, certificates produced by us are false / fabricated.

Date of Submission:

(Signature of the Bidder)

Place

(Seal)

DECLARATION BY THE BIDDER REGARDING QUALIFICATIONS

In relation to my/our Bid submitted to DS&D in response to their Notice Inviting Bids for Supply, installation and commissioning of Solar Home system in anganwari centers of Haryana State and LED Based SPV Home Lighting System (Manohar Jyoti) we hereby declare that:

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

SIGNATURE OF AUTHORISED

SIGNATORY OF THE BIDDER

WITH SEAL

Date:

Name:

Designation:

Address:

GENERAL PARTICULARS OF BIDDER

Bid for Supply, installation and commissioning of LED Based Solar Home System for Anganwari Centres of the Haryana State and LED Based SPV Home Lighting System (Manohar Jyoti) with five years warranty of complete system.

1	Name of firm	
2.	Postal Address	
3.	Telephone,Telex,FaxNo	
4.	E-mail	
5.	Website	
6.	<p>Category of Bidder/Type of Organisation</p> <p>The Bidder should be either a body incorporated in India under the Companies Act, 1956 or 2013 including any amendment thereto or proprietary/partnership firm/LLP. A copy of certificate of incorporation shall be furnished along with the bid in support of above.</p>	
7.	<p>Whether, the bidder (manufacturer of solar module/solar cell/ Lithium battery of Haryana) is any one of the following :</p> <p>i. Manufacturing Micro&Small Enterprises (including Khadi& Village Industries) or</p> <p>ii. Manufacturing Medium Enterprises (including Khadi& Village Industries)</p> <p><i>If, the bidder Manufacturing Small & Medium Enterprises (including Khadi& Village Industries) or Manufacturing Micro Enterprises (including Khadi& Village Industries), then please mention the device/item for which it is registered. A copy of certificate of Entrepreneurs Memorandum/UDYOG AADHAR/Odyam Registration in Haryana should be furnished along with the bid in support of above.</i></p> <p>OR</p> <p>System Integrator</p>	
7.1	<p>Quality Certification of ISI/ISO/AgMark/Quality mark issued form competent authority in State or Central Govt. in respect of the items/goods mentioned in the tender (Provide the required certification No. and upload the certificate with the bid).</p>	

7.2	Is the bidder registered with DGS&D/NSIC/GOI Department/State Govt. Department/GOI PSUs/State Govt. PSUs in respect of the items/goods mentioned in the tender. (Yes/No, if yes, upload the certificate with the bid)	
7.3	If bidder is claiming benefits under “Haryana State Public Procurement Policy for MSME -2016” vide G.O. No. 2/2/2016-4I BII(1) dated 20-10-2016 and amendment vide G.O. No. 2/2/2016-4IB-II dated 11.12.2019 which will be applicable in respect of concessions to Haryana based MSMEs and KVIs for claiming the relevant concession/s like Tender Fee, Earnest Money Deposit (EMD), Turnover, Exemption in respect of Past Performance & Experience, Purchase Preference and Performance Security then the bidders are required to submit the requisite documents as required in said policy. Submit requisite Documents in this regards	
8.	Name of Directors of Company (at least Two directors with email IDs & contact Numbers)	
9.	Name & designation of the authorized signatory to whom reference shall be made	
10.	Present activities/business of the firm i. Module Manufacturer ii. Solar Cell Manufacturer iii. Lithium cell iv. System Integrator	
11.	Registration number	
	GST No.	
	PAN	
12.	Place & State of billing	
13.	Have the contractor/ firm to pay arrears of income tax? If yes up to what amount?	
14.	Have the contractor/ firm/firms having common director ever been debarred by any Govt. Deptt. /Public Sector Undertakings for undertaking any work?	
15.	Average annual turnover of the bidder for the last three years(Rs. in Lacs)	

16.	The bidder have positive net worth in the previous Financial Year. (Yes/No)	
17.	Experience of the bidder in supply of similar work (verified by any Govt. department/organisation)	
18.	Make(s) of Modules offered for the system: (Upload Tie up certificates)	a., b., c., d. etc.
19.	Make(s) of Lithium Battery offered for the system: (Upload Tie up certificates)	a....., b., c., d. etc.
20.	Make(s) of Charger controller offered for the system: (Upload Tie up certificates)	a., b., c., d. etc.
21.	Make(s) of Luminaries offered for the system: (Upload Tie up certificates)	a., b., c., d. Etc.
22.	Make(s) of Fan offered for the system: (Upload Tie up certificates)	a., b., c., d. Etc.
23.	Name of the any close/near relative working in New & Renewable Energy Department, Haryana or HAREDA	Name Designation Place of Posting Relationship
24.	Litigation history	
25.	Any Other Information	

We solemnly declare that we will abide by any penal action such as disqualification or black listing or termination of contract or any other action deemed fit, taken by, the Nodal agency against us, if it is found that the information, statements, documents, certificates produced by us are false / fabricated or any information is concealed therein.

Date

(Signature of Bidder)

With SEAL

TIE UP CERTIFICATE

(from Manufacturer on the letter head of the manufacturer)

We undertake to supply indigenously manufactured modules/Lithium Battery/Charge Controller/Luminaries/Fan confirming the specifications as per DNIT/tender no.
Invited by Supplies & Disposals Department Haryana to the
..... (name of bidder) for NRE/HAREDA requirement as and when ordered by the bidder.

Dated:

Authorised Signatory

(with Seal)

(strike out whichever is not applicable)*

LITIGATION HISTORY

Name of bidder

Year	Award for or Against bidder	Name of client	Cause of litigation and matter of dispute	Disputed amount (Current value in Rs.)	Actual awarded Amount (In Rs.)

- 1. *Bidders should provide information on any history of litigation or arbitration resulting from contracts executed in the last five years or currently under execution.*

Signature with seal of bidder

NET WORTH (FINANCIAL CAPABILITY**(Refer Clause of Section.....)**

Name of bidder

Financial information in Rs. Lakhs	Actual: For financial year 2018-19 (Rs. In Lakhs)	Actual: For financial year 2019-20 (Rs. In Lakhs)	Actual: For financial year 2020-21 (Rs. In Lakhs)
Total assets			
Current assets			
Total liabilities			
Current liabilities			
Profits before taxes			
Profits after taxes			
Net worth (Paid up share capital + reserves & surplus)			
Average Net worth for last Three Years			
Net worth is Positive or Negative			

It is certified that the bidder not suffered losses for any reasons whatsoever in last three Financial Years.

Signature with seal of bidder

Signature with seal of

Chartered Accountant

Name:

M.No.

1. Bidder must fill in the form.
2. The statement of Net Worth is to be certified by a Chartered Accountant.

UNDERTAKING BY MANUFACTURER OF PV MODULE/ LITHIUM BATTERY/CHARGE CONTROLLER/LUMINARIES/FAN

(on Non Judicial Stamp Paper of Rs. 10/-)

I -----(Name of Authorised person) ----- (designation in the manufacturer company) on behalf of M/s. -----
----- (Manufacturer of Solar Module/Charge Controller/ Lithium Battery/Luminaries/Fan), A company incorporated under the Companies Act, 1956, having its registered office at -----and Factory at -----
----- (hereafter called the Company) has given the undertaking as under:

1. M/s. ----- (System Integrator) Represented by ----- A company incorporated under the Companies Act, 1956, having its registered office at -----
----- (hereafter called the system integrator) is hereby authorised to install the product /device.... (Solar Module/Charge Controller/ Lithium Battery/Luminaries/Fan) manufactured by the Company, in the State of Haryana in reference to the tender no. invited by DGS& D Haryana for New & Renewable Energy Department/HAREDA for supply and installation of the Solar Home system and SPV Home Lighting System, if name of System Integrator is finalized in the rate contract and orders are received.
2. In case System Integrator defaults at any stage of execution of warrantee/guarantee/CMC and after sale service of the said device, installed in reference to rate contract of the said tender, then the Company will be responsible to execute the warrantee/guarantee/CMC of the product/device (Solar Module/charge controller/Lithium Battery) at site of installation as per the terms and conditions of rate contract/DNIT of the above tender.
3. In case System Integrator defaults, the Company will adhere the directions of the New & Renewable Energy Department/HAREDA directly.

DATED:

Sign.:
Name of Authorised person:
Designation of Auth. Person:
Name of Manufacturer Company
With seal

Declaration for Comply Solar module as per ALMM compulsory Registration order

It is certified that ***we are aware of binding provisions of the ALMM Order and the List(s) there under, while quoting the rates in the bid.***

Further, the Solar Module to be supplied will be indigenously produced with indigenously manufactured solar PV cells and comply with MNRE guidelines for enlistment under “Approved Models and Manufacturers of Solar Photovoltaic Modules (Requirement of Compulsory Registration) order,2019 and its subsequent amendments at the time of supply. We undertake that the Solar Module will comply the said order while supplying solar module with said item.

Date

(Signature of Bidder)

With SEAL

Format for Price bid for Solar Home System

Sr. No.	Description of System	Base Rate per system with warranty for five years (In Rs.)	Applicable GST (8.9%)	Total tentative rate per system with warranty for five years inclusive of GST at F.O.R sites. (In Rs.)
1.	Model-1 Supply, installation and commissioning of LED Based Solar Home System for Anganwari Centres of the Haryana State with five years warranty of complete system			
2.	Model-2 Supply, installation and commissioning of LED Based SPV Home Lighting System (Manohar Jyoti) with five years warranty of complete system required by New & Renewable Energy Department, Haryana.			

Technical Bid format/ Index for the Technical Bid documents

(Tenders will be technically evaluated based on the sequence/index as per the details given below. In case the firm fails to provide the documents properly as per the Technical Bid format/Index/proper page numbering, bid of the firm can be rejected)

Sr. No.	Name of Document	Status of Submission (Yes/No)	Page Number as per numbering given to the technical bid documents uploaded on the portal
1	Submission of online payments i.e Earnest Money Deposit, Tender Document Fee & e - Service Fee and scanned copies of supporting documents.	Yes/ No	
2	All the documents submitted by the bidder as part of its Technical Bid are attested by the signing authority of the bidder	Yes/ No	
3	An undertaking by the bidding firm in reference to acceptance of all the terms & conditions of the Schedule-A/ DNIT	Yes/ No	
4	Submit a signed copy of DNIT	Yes/ No	
5	The Bidder should be either a body incorporated in India under the Companies Act, 1956 or 2013 including any amendment thereto or proprietary/partnership/LLP firm. A copy of certificate of incorporation shall be furnished along with the bid in support of above. Submit a copy of certificate of incorporation under the Companies Act, 1956 or 2013.	Yes/ No	
6	The bidder should be a manufacturer of solar modules/solar cells/Lithium battery or System Integrator. The System Integrator has to submit the undertaking issued by each manufacturer of major parts/devices (solar modules, charge controller, battery, fan and LED Luminaries (bulb/batten)to be used in system with whom they have tie up mentioning that in case System Integrator defaults, at any stage of execution of warrantee/guarantee/CMC and after sale service of the said device, installed in reference to rate contract of the said tender, then the Company will be responsible to execute the warrantee/guarantee/CMC of the said device at site of installation as per the terms and conditions of rate contract/DNIT of the above tender and will adhere the directions of the New & Renewable Energy Department/HAREDA directly.	Yes/ No	

	To submit a copy of Manufacturing proof of solar modules/solar cells/Lithium battery. Also submit a. Tie-up certificate from original manufacturer;		
7	Test report of the complete system in his name issued by any of the MNRE / BIS /IEC/ NABL accredited laboratory on or after 01.04.2018. Bid without valid test report from MNRE / BIS /IEC/ NABL accredited laboratory will be rejected out rightly. The test report should contain the make and model of major components i.e. module, battery, charge controller, fan and LED Luminaries (bulb/batten) along with their photograph. To submit a copy of Test report of the quoted item issued by any of the MNRE/BIS/NABL accredited laboratory on or after 01.04.2018;		
8	The bidder should have also a valid ISO 9001:2015 Certificate issued from any NABCB accredited certification body in the field of quoted item and copy of valid ISO 9001:2015 Certificate must be attached with offer.	Yes/ No	
9	Bidder should have not been debarred/blacklisted by any Govt. Deptt's / organization/ PSU's / institutions/ agencies/ autonomous Organizations. Submit an Affidavit on non judicial stamp paper duly attested by the notary stating that the bidder has not been blacklisted/debarred by any Govt. Deptt's / organization/ PSU's / institutions/ agencies/ autonomous Organizations.	Yes/ No	
10	The Bidder should have valid GST registration certificate of the billing state. Submit a copy of GST no and PAN no.	Yes/ No	
11	The Successful Bidder shall be required to establish at least one Service Centre at Divisional Level in their area of operation in Haryana. The successful bidder should maintain the inventory of required spare parts at the service centre(s). Submit undertaking.	Yes/ No	
12	The bidder should have minimum average annual turnover 30% of the estimated bid value in the last three years, ending 31 st March of the previous Financial Year i.e. upto 2020-21. Submit last 3 years turnover certificate duly certified by Chartered Accountant	Yes/ No	
13	Experience and Past Performance of having	Yes/ No	

	<p>successfully completed similar contracts i.e. Solar Home Light System/Solar Street Light costing not less than the amount equal to 40% of the estimated value of the bid quantity amounting to Rs.1536 lakhs, during last three years ending 31st March of the previous Financial year (2020-21), to Govt. / Semi Govt. Organizations</p> <p>Submit proof/ certificate of experience and past Performance of having successfully completed similar contracts i.e. Solar Home Light System/ Solar Street Light during last three years ending 31st March of the previous Financial year (2020-21) to Govt. / Semi Govt. Organizations. The supply orders and performance certificate of the items previously supplied , installed and Commissioned for the relevant department.</p>		
14	The bidder should have positive net worth in the previous last three Financial Year i.e. upto 2020-21. <i>(Document to be uploaded: Certificate in given format.</i>		
15	Bidder is required to submit a sample of the quoted product along with tender. Noncompliance shall in rejection of the bid.		
16	Technical Catalogue of the product is required to be submitted along with the bid & same should be available on bidder's website.		
17	The firm (s) tendering shall clearly mention in their tender whether any of the close/near relative of their management/ management of sister concerned firms is in the employment of the HAREDA/Department of New & Renewable Energy, Haryana and in case their close/near relative is in employment of the HAREDA/Department of New & Renewable Energy, Haryana then his/her name, designation and place of posting to be mentioned. Submit an undertaking		
18	Bidders should provide an undertaking that after the expiry of warranty period, they will provide necessary spare and services for the maintenance of items up to the period of additional five years. Submit Undertaking in this regard.	Yes/ No	
19	Material shall be strictly as per DNIT specifications/requirement. If there is any left out specification, the same shall be considered as per the latest specification/requirements applicable as	Yes/ No	

	per BIS/International Standards. The bidders are advised to be well conversant with these specifications/requirements for their compliance. Submit undertaking		
20	The make of major components of the system i.e. Solar module, Solar Charger, Battery, Ceiling Fan and Luminaries (bulb/batten) should be strictly as per the make mentioned in the test report and sample submitted with the bid. Accordingly, the same should be mentioned in the technical bid. Submit compliance report	Yes/ No	
21	Acceptance of warranty clause as per NIT	Yes/ No	
22	Acceptance of Delivery period as per NIT	Yes/ No	
23	Acceptance of payment terms as per NIT	Yes/ No	
24	Acceptance of Penalty clause as per NIT	Yes/ No	