

**Pre-Bid Queries for NIT Supply of 13179 Nos. of 300Wp Solar Home Power Packs and 4184 Nos. of 40Wp Solar Street Lights including 5 years' comprehensive guarantee for Electrification of 895 Nos. of Off-Grid Villages in Arunachal Pradesh under Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)**  
**NIT No: RECPDCL/ANP/DDG/16-17/3739 Dated: 23.02.2017**

S. No.	Queries received on	Page No. / Clause No.	Parameter	Technical Specifications as per RFP	Queries / Modifications / Changes Suggested	Amendments / Clarifications / Remarks
1	01.03.2017	Page No. 9/ Section V & Page No. 17/Section VI	Detailed Scope Of Work & Conditions Of Contract & Technical Specification	As per tender documents, battery should be 24V, 75Ah @ C/10, Tubular sealed maintenance free GEL type for solar home lighting system.	Li-ion battery should be incorporated in the technical specification of Solar Home Lighting system and sizing of Li-ion battery should be done separately.	No change
2					Price Bid should be separated for Lithium Ion battery & lead Acid battery based solar home lighting system.	No change
3	01.03.2017	Page No. 10/ Clause g.	Detailed Scope Of Work & Conditions Of Contract & Technical Specification	As per tender document, solar home lighting system shall have an inverter for operating of TV/ Laptop/Mobile Charger.	The solar home lighting system should be DC-DC system because 1. Conversion losses (DC to AC) more than 20% 2. Poor reliability of inverter 3. Misuse of energy (Since AC power supply would be provided there will be no control over the appliances used in the systems. This will result in shorter hour of operation.	No change
4	01.03.2017	Page No. 7/ Section IV	Financial Eligibility Criteria	As per tender document, the Average Annual Turnover of the Company/ Firm/ Corporation in the last three financial years (FY- 2015-16, 2014-15, 2013-14) should be at least Rs. 19.0crores	(1) For the financial eligibility criteria, you are asking the average turnover for the last 3 financial years to be atleast 19 crores. I feel that this condition should be changed to highest turnover in any one of the last 3 years. This will help encourage companies which have done good work but are relatively new. Even other government companies such as SECI, IPGCL and CEL are using the highest turnover to promote healthy competition because essentially it means the same (2) Bidder's average annual turnover of any of the consecutive 3 years should be Rs 10 Cr.	Financial Eligibility Criteria (Avg. Annual turnover (100%) should be met by all consortium members collectively and Lead Bidder should meet atleast 50% of the criteria.

5	01.03.2017	Page No. 7/ Section IV	Technical Eligibility Criteria	<p>Bidder should have successfully supplied major components of SPV System (SPV Module/ Inverter/ Battery) in last 3 financial years of value as below: For Single Bidder: Single Work Order of Rs. 22.0 Crores Or Two Work Orders of Rs. 13.5 Crores Or Three Work Orders of Rs. 11.0 Crores For Consortium/JV (Two Members): Two Work Orders of Rs. 13.5 Crores (One from each Consortium/JV member) Or Three Work Orders of Rs. 11.0 Crores (Two from Lead Bidder and One from Consortium Partner) For Consortium/JV (Three Members): Three Work Orders of Rs. 11.0 Crores (One from each Consortium/JV member)</p>	<p>(1) The technical eligibility criteria should be replaced with: The bidders should be a manufacturer of SPV Cells / Modules or Battery or PV System Electronics or LED Lights (Confirming to relevant National / International Standards). OR A PV System Integrator having the experience in Supply, Installation and Commissioning of SPV Power Plants and Solar Systems of Capacity not less than 480kWp in last three years. OR A supplier who has also installed and commissioned at least 6400 nos. of not less than 75Wp of similar Solar PV Power Packs in last three financial years (i.e. 2013-2014, 2014-2015, 2015-2016 and till date of bid opening).</p> <p>(2) Bidder should have successfully supplied major components of SPV System (SPV Module/ Inverter/ Battery) in last 5 financial years of value as below: For Single Bidder: Single Work Order of Rs. 5.0 Crores Note: The system should be working for more than 4 years.</p>	<p>Bidder should have successfully supplied similar solar power projects (Grid connected/Off-grid/ Mini-grid/ Micro Grid) or major components of SPV System (SPV Module/ Inverter/Battery) in last 3 financial years of value as below:  <u>For Single Bidder:</u>  Single Work Order of Rs. 22.0 Crores Or Two Work Orders of Rs. 13.5 Crores Or Three Work Orders of Rs. 11.0 Crores  <u>For Consortium/JV (Two Members):</u>  Two Work Orders of Rs. 13.5 Crores (collectively by Consortium/JV members) Or Three Work Orders of Rs. 11.0 Crores (collectively by Consortium/JV members)  <u>For Consortium/JV (Three Members):</u> One of the partner should be atleast a manufacturer of any major Solar components (PV Module / Battery / Inverter).  Three Work Orders of Rs. 11.0 Crores (collectively by Consortium/JV members).  Or  A PV System Integrator having the experience in Supply, Installation and Commissioning of SPV Power Plants and Solar Systems of Capacity not less than 240kWp in last three years. The SPV Power Plants and Solar Systems must be in satisfactory operation for at least six (06) months from the date of commissioning (collectively by Consortium /JV members).  Or  A supplier who has also installed and commissioned at least 3200 nos. of not less than 75Wp of similar Solar PV Power Packs in last three financial years (i.e. 2013-2014, 2014- 2015, 2015-2016 and till date of bid opening). The Solar PV Power Packs must be in satisfactory operation for at least six (06) months from the date of commissioning (collectively by Consortium /JV members).</p>
6	01.03.2017	-	-	General	Companies that are not manufacturers should be allowed to participate in this tender as well.	As per eligibility conditions, bidders may apply

7	01.03.2017	Page No. 7/ Section IV	Financial Eligibility Criteria	<p>Bidder should have successfully supplied major components of SPV System (SPV Module/ Inverter/ Battery) in last 3 financial years of value as below:</p> <p>For Single Bidder: Single Work Order of Rs. 22.0 Crores Or Two Work Orders of Rs. 13.5 Crores Or Three Work Orders of Rs. 11.0 Crores</p>	Please allow for supply of complete system of Solar Home Light System or Solar Power Packs, as system also include these component and performance of component can be seen perfectly in complete system.	Already incorporated as above clarifications.
8	01.03.2017	Sec-5 Pg-9 Pt- 1.e	Detailed Scope Of Work & Conditions Of Contract & Technical Specification	The charge controller should have provision of single phase ac supply input point (phase, neutral and earth) input provision to charge batteries. The system should be ready to be interfaced and communicate with an AC-DC converter as and when the grid is available. The beneficiary may use this provision whenever grid supply reaches to the village as a standby charging facility to charge system batteries.	Please specify when we have to charge battery from Grid supply. Also what should be charging current and how will it be switched on. Automatically or manual. In case of automatic what should be trigger point	As per tender conditions.
9	01.03.2017	Sec-5, Pg-11 Pt-2	Detailed Scope Of Work & Conditions Of Contract & Technical Specification	The Bidder will maintain these Stores till six months of date of first delivery at Store or till completion of commissioning of all material by Executing Agency, whichever is earlier. In case completion of commissioning of material by Executing Agency is delayed beyond six months of date of first delivery at Store, then the Store will be further maintained by the Bidder on payment of such additional cost i.e. monthly rent etc. by Executing Agency mutually agreed between Bidder and Executing Agency.	we request you to pay us directly for the additional cost i.e. monthly rent etc. or this should be excluded from the scope & should be in Executing agencies scope.	<p>1) The Bidder will maintain these Stores till Six (6) months from delivery of first lot of supply/material.</p> <p>2) In case execution is delayed due to unforeseen circumstances / force majeure conditions, then bidder will maintain the store upto 9 months from delivery of first lot of supply/material at his own expenses.</p> <p>3) In case completion of commissioning of material by Executing Agency is delayed beyond Six (6) months, then the Store will be further maintained by the Bidder on payment of such additional cost i.e. monthly rent etc. by Executing Agency mutually agreed between Bidder and Executing Agency.</p> <p>4) If execution is delayed further, RECPDCL will consider compensation for stores rental expenses to bidder at its sole discretion.</p>
10	01.03.2017	Sec-5, Pg-11	Detailed Scope Of Work & Conditions Of Contract & Technical Specification	LIGHT Source (for Solar Streetlighting): White Light Emitting Diode (W-LED) 7 Watt or 20W (Max.), W-LED AL luminaire, dispersed beam, soothing to eyes with the use of proper optics and diffuser	<p>LIGHT Source (for Solar Streetlighting):</p> <p>Light Source option should be made clear (7W or 20W max.)</p>	White Light Emitting Diode (W-LED) 7 Watt , W-LED AL luminaire, dispersed beam, soothing to eyes with the use of proper optics and diffuser.
11	01.03.2017	Sec-5 Pg-13 Pt-B2	Detailed Scope Of Work & Conditions Of Contract & Technical Specification	The bidder may also take insurance for Third Party Liability covering loss of human life, engineers & workmen and also covering the risks of damage to the third party/ material/ equipment/ properties during execution of the contract.	The insurance should be in scope of Executing Agencies appointed by RECPDCL.	No change

12	01.03.2017	Sec-5 Pg-13 Pt-11	Detailed Scope Of Work & Conditions Of Contract & Technical Specification	The Bidder has to take all permits, approvals and licenses, insurance etc., provide training to RECPDCL/Executing Agencies appointed by RECPDCL.	Please specify what kind of training we have to provide to RECPDCL/Executing Agencies appointed by RECPDCL. Also what permits & approvals might be required.	Product related training, demo, compatibility, how to install the system to be given. All permits required for successful delivery of material at designated location(s), maintenance of store activities and any other activities mentioned in this tender in Arunachal Pradesh will be the responsibility of the bidder.
13	01.03.2017	Sec-5 Pg-13 Pt-B.1.1	Detailed Scope Of Work & Conditions Of Contract & Technical Specification	Total sanctioned period for complete design, engineering, manufacture, testing, supply including transportation up to Central Locations, insurance, unloading of material is 1 (One) Month from the date of Allocation Letter/Work Order which can be extended subject to approval of RECPDCL.	The delivery time should be 6 Months instead of 1 months because we have to design, engineering, manufacture, testing, supply including transportation up to different Locations and unloading of material. Also these are remote locations.	Bidder should provide batch wise delivery schedule of Solar Home lighting and Solar Street lighting system complete set of material. Delivery should commence within 45 days from issuance of Letter of Award and 100% Delivery of material should be completed within 90 days from issuance of Letter of award.
14	01.03.2017	Sec-7, Pg-25	Commercial Terms, Conditions & Other Provisions	50% on Supply, receipt and acceptance of Materials at site on submission of required documents.	We request you to release 100% payment on supply as we are giving you BG. And I & C is not in our scope, So why we will be suspended for delay caused by Executing Agencies	No change
		Sec-7, Pg-25		BG	It should be 5% or less as higher BG will lead to increase in costs.	No change
15	01.03.2017	GST	-	General	What will be changes in taxes if the GST comes in role. As per SECI Clause 31.6. Pg 32, Any new tax introduced or revision in respective applicable tax rates after the date of techno – commercial bid opening, shall be paid/reimbursed by the purchaser subject to submission of requisite documentary evidence by the bidder.	Any new tax introduced or revision in respective applicable tax rates after the date of techno – commercial bid opening, shall be paid/reimbursed by the purchaser subject to submission of requisite documentary evidence by the bidder.
16	01.03.2017	Sec-5 Pg-27	Detailed Scope Of Work & Conditions Of Contract & Technical Specification	Battery Type	Kindly allow for Tubular Lead Acid along with Tubular gel Battery as Supply chain of Lead Acid battery is well established and supply period is extremely tight. Also, service centers of Tubular lead acid batteries are readily available.	No change
17	01.03.2017	-	-	General	PI include BLDC fan and LED bulbs in Supply tender.	Supply of BLDC Fan is included in the scope of Supply tender No: RECPDCL/ANP/DDG/16-17/3739 with total 13179 nos. of BLDC fans (1 No. per Solar Power Pack).  Supply of BLDC Fan is excluded from the scope of Execution tender No: RECPDCL/ANP/DDG/16-17/3740.
18	01.03.2017	Section IV, SI no:1, Para2 (Page no: 7)	Eligibility criteria	In case, bidder is a Consortium/ Joint Venture Firm of two companies, both members of the Consortium/JV should be registered individually in India under Companies Act, 1956 or 2013 including any amendment thereto.	N/A	In case, bidder is a Consortium/ Joint Venture Firm of 2 or 3 companies, each member of the Consortium/JV should be registered individually in India under Companies Act, 1956 or 2013 including any amendment thereto.

19	01.03.2017	Section V, Clause A, I, h (Page no: 10)	DETAILED SCOPE OF WORK & CONDITIONS OF CONTRACT	<p>Cables and Wiring: ISI marked system wiring should be provided as per following:</p> <ul style="list-style-type: none"> <li>- Panel to Inverter/charge controller: Min. 2 core 4 sq. mm flexible multi strand copper conductor cable as per IS 694. Cable between panel to Solar DC charge controller shall be fixed properly with cable ties and shall be laid underground or enclosed in pipe as per CPWD specifications between installation support and household.</li> <li>- Inverter/Charge controller to battery: Min. 2 core 4 sq. mm flexible multi strand copper conductor cable as per IS 694</li> <li>- Battery to battery connections: Min. 2 core 4 sq. mm flexible multi-strand copper conductor cable as per IS 694</li> </ul>	N/A	<p>Cables and Wiring: ISI marked system wiring should be provided as per following:</p> <ul style="list-style-type: none"> <li>- Battery to battery connections: For making 24 V DC (Series Connections by using 2 X12 VDC Batteries ), Min. 2 core 4 sq. mm flexible multi-strand copper conductor cable as per IS 694.</li> </ul>
20	01.03.2017	Section V, Clause A, 15 (Page no:13)	DETAILED SCOPE OF WORK & CONDITIONS OF CONTRACT	New clause	N/A	Supplier has to provide demo, training on product installation at location designated by RECPDCL and will provide necessary technical support for any product / performance related issues during installation and commissioning and till completion of 5-year period of comprehensive maintenance.
21	01.03.2017	SECTION-IX, (Page no:30)	GENERAL CONDITIONS OF BID	New Clause	N/A	29. Successful bidder shall submit valid Test Certificate(s) for the components of the Solar PV Power Pack/Solar Street Light they will supply under this Package. Also the test Certificate for complete Solar Standalone System and Solar Street Light shall be submitted by the successful bidder. The Test Certificates should have been issued by any of the MNRE approved Test Centres or equivalent reputed Test Centres and shall be submitted for delivery approval by RECPDCL.
22	02.03.2017	Sec-6, page 18. Point 11	DETAILED SCOPE OF WORK & CONDITIONS OF CONTRACT	Centralized Monitoring System	Whether we have to include Central Monitoring System in the costing estimate or not.	This clause should read as Annexure-1.
23	01.03.2017	SECTION-VII, page 23	SECTION-VII COMMERCIAL TERMS, CONDITIONS & OTHER PROVISIONS	New Clause	N/A	All the Components must comply with Applicable BIS Standards and MNRE guidelines if any.
24	01.03.2017	N/A	N/A	There is no approved vendor list for supply of equipments in Tender document.	Please provide approved vendor list of RECPDCL if any or Bidder can supply all equipments of any make.Please Confirm.	As Such , No list of approved vendor available. Bidder has to ensure that the supply items must comply with applicable standards and MNRE guidelines (if Any) as mentioned in NIT

25	02.03.2017	Sec-5, page 9	Deatiled Scope of Work & Condition of Contract (Solar Home Lighting System)	The battery should be 24V, 75Ah @ C/10, Tubular sealed maintenance free GEL type	Single battey of 24 V is not available. 2 nos. of 12 V battery to be connected in series should be allowed. Also flooded Low Maintenance Tubular battery should be allowed as supply of gel battery would slow down the entire project.	2 X 12 V DC , 75 AH , @ C10 can be used in series connection. The battery should be Tubular sealed maintenance free GEL type
26	02.03.2017	Sec-6, page 16	Technical Specifications	Charge Controller & Inverter are to be provided	Charge controller & Inverter along with AC charging should be combined in a single circuit / unit. It will lead to better efficiency and much lesser failures	Bidder should submit design consideration for system with either combined Charge Controller & Inverter or separate unit alongwith justification in the Bid. RECPDCL will review the same and approve for further consideration of the Bid.
27	02.03.2017	Section IX	New Clause	General conditions of Bid	-	RECPDCL has right to allocate supply work to different agencies within a district of Arunachal Pradesh
28	07.03.17	Page 9 of 54	Scope of work	General	You are asking for a metallic box with acid proof corrosion paint whereas the batteries required are of tubular gel type. Therefore, this specification for outdoor application has to be IP65 class for prevention from environmental degradation.	Battery Stand: A vented, corrosion resistant box of IP65 class with a locking arrangement should be provided for housing the battery.
29	07.03.17	Page 19 of 54 :	Scope of work	General	PV Modules - For a good quality solar module nowadays average efficiency accepted by the industry is 14-15% whereas you are asking for only 12% in one place and 14% in another place.	Solar Home Lighting System: 300 Watt PV module, the module efficiency should not be less than 14%  Solar Street Lighting System: 40 Watt PV module, the module efficiency should not be less than 12 %
30	01.03.2017	Page no: 53, Annexure-XIV FINANCIAL BID	FINANCIAL BID	FINANCIAL BID	-	Annexure - XIV, i.e., FINANCIAL BID of Supply Tender was revised and uploaded at tenderwizad portal for online submission.

The Date and Time for submission of bids is further extended, as detailed here under:

Details	Scheduled Date and Time	Extended/Revised Date and Time
Last date of submission of Tender	24.03.2017 at 15:00 hrs.	03.04.2017 at 15:00 hrs.
Date of opening of Technical Bid	24.03.2017 at 15:30 hrs.	03.04.2017 at 15:30 hrs.

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## ANNEXURE-1

### **11. The Bidder has to provide Home Lighting System with below mentioned Monitoring System.**

The controller shall have an internal data logging mechanism that reads and stores data/measurements pertaining to system operations. This stored data can be read via Bluetooth using a compatible Android device installed with the data reader app software. The data collected by the device then to be sent via internet to a data monitoring server.

In order to remotely access and monitor data from installations, the following are needed:

- i. Android device: A compatible Android device with Bluetooth support/ USB connectivity and Internet connectivity is used to wirelessly read the data from the controller and send this data via the Internet to the data server.
- ii. Android Data Reader app: The Data Reader Android app shall be installed on the Android device. It is this software that enables reading of data from the controller, viewing data readings on the device and sending this data to the data server.
- iii. PC/Laptop: A laptop/PC with a working Internet connection is used to access the Data Monitoring Portal (URL) in order to view the data pertaining to various remote installations. This URL displays the data in the form of charts and graphs so it is easy for the user to interpret and analyse the same.

It shall log the data parameters/measurements pertaining to system operations like daily energy consumption, power availability/consumption and load. The controller can also wirelessly interface via Bluetooth with any compatible device.

In order to read/access the data logged by the controller, a compatible Android device is used. On this device (smartphone or tablet), the Data Reader Android app is installed. Using this app, one can read the data readings from the controller via the Bluetooth interface or USB port. Once the data has been read by the app, one can view the readings on the device. These data readings show usage parameters and also indicate if the installation is running as expected.

Using the Data Reader app, one can also send the data read from the controller to data server via the internet. Once the data is available on this server, it can be viewed remotely on the Data Monitoring Portal / Mobile App.

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