

DISTRICT PLANNING AND MONITORING UNIT, NUAPADA.

No. 1279/DPMU/IAP / dt. 08/08/2018

TENDER CALL NOTICE

Sealed bids are invited from manufacturers/suppliers of solar PV systems in the country having valid test certificates from MNRE authorized test centers for their products for supply, installation, commissioning and maintenance of Solar PV Street Lighting systems in different remote villages, institutions and places of public interest in the district of Nuapada under the IAP Electrification Programme.

Sl.No	Item	*Units	Estimated Cost in Lakhs	EMD for the composite work in lakhs in shape of DD
2	Solar Street Lighting System, White LED 12 Watt with 5 years warranty and 5 years CMC		52.00	@1% of E.C.

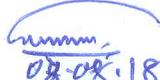
\*Units of Solar Lighting System may varies.

Details of the projects and all terms & conditions can be downloaded from the District Website namely: - [www.nuapada.nic.in](http://www.nuapada.nic.in) from 8.8.2018 to 23.8.2018 The last date for receipt of the tender complete in all respect is 27.8.2018 up to 3.00 PM through speed post only.

  
Collector & District Magistrate, Nuapada

Memo No. 1280(2) . Dt. 08/08/2018

Copy forwarded to the Advertising Manager, the Indian Express The SAMAJ for publication of the tender call notice at DI&PR Approved rates, in all Odisha Edition of the news paper for wide publicity.

  
Deputy Director (P & S),  
DPMU, Nuapada.

Memo No. 1281 . Dt. 08/08/2018

Copy alongwith soft copy of the Tender Bid Documents are forwarded to the District Informatics Officer, NIC, Nuapada for web hoisting in the portal [www.nuapada.nic.in](http://www.nuapada.nic.in) and further necessary action.

  
Deputy Director (P & S),  
DPMU, Nuapada.

**DISTRICT PLANNING AND MONITORING UNIT, NUAPADA.**

**BID DOCUMENT**

FOR

Supply, Installation, Commissioning and Maintenance for a period of 5 years of Solar

Photovoltaic Systems White LED based Street Lighting in

Remote Villages / Institutions

IN NUAPADA DISTRICT.

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District Planning and Monitoring Unit, Nuapada.

At/PO-Dist: Nuapada, Odisha.

Phone : (06678) 225584 Fax: 225464

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

## Preamble:

Remote villages by definition are those un-electrified census villages or un-electrified hamlets of electrified census villages where extension of conventional grid power is neither technically feasible nor commercially viable.

The DPMU, Nuapada has drawn up a program for providing solar lighting systems to different villages under the Integrated Action Plan. The systems would broadly consist of Solar PV White LED based Street Lights. The assignment would inter alia include supply, installation, commissioning and maintenance of the systems for a period of five years.

Timely maintenance of the systems being the key to sustainability of the program a two tier maintenance mechanism involving the village / GP level and District level has been recommended. Such maintenance mechanism has been detailed out elsewhere in this document.

Documentation and record keeping is another key area that needs thorough and meticulous involvement. Village details, beneficiary details, system details, GPS locations, photographs, ID proofs etc are some of the important documents at the pre installation and during installation stages. Similarly system service and maintenance records are very important in the post installation period. The details of the documents and procedures to be followed have been discussed elsewhere in this document.

Since IAP ( ACA for LWE Affected Districts) is a flag ship national program and the project should show results in the short term, it is a matter of pride for all those working in the field of Renewable Energy for quality assurance and timely completion of the projects, proper documentation and regular follow up and maintenance are of paramount importance which call for greater involvement of the vendor agencies which inter alia includes strong local presence and long term commitments.

## **Important Dates**

1	Commencement of downloading periods for bid documents	08.08.2018 to 23.08.2018
2	Last date for availability of bid documents in the web site.	23.08.2018
3	Last dates for submission of bids	27.08.2018 (up to 3.00 PM)
4	Date of opening of technical bids	28.08.2018
5	Date of opening of Price Bid	28.08.2018

### Check List Of Documents

Sl No	Particulars	Page
1	Copy of valid STCC/ VAT / GST clearance certificate	
2	GST & CIN No.	
3	Copy of audited balance sheet and profit and loss account for 2015-16, 2016-17 and 2017-18 clearly indicating the turnover from solar PV business	
4	Certificates from the authorized officer of the concerned SNA/ copy of the work order as proof of experience in RVEP	
5	Proof of production / Supply capacity.	
6	Recent test certificates from appropriate authorized test centers of MNRE, GOI	
7	Xerox copy of the Income Tax PAN card of the company	
8	Xerox copy of Service Tax Registration Certificate	
9	Demand Draft as proof of payment of Tender Cost with NO. and date.	
10	Demand Draft submitted as Earnest Money with No. and date :	
11	Undertaking for Indignity of the supplied item	
12	Undertaking to unconditionally accept all terms and conditions of the bid document	
13	Authorization to sign the agreement on behalf of bidders & partnership deed articles, if any	
14	Technical bid in format in Annexure A	
15	Price bid in Annexure B in a sealed cover	
16	Filled in bid document duly signed and stamped at the bottom of each page	
17	Organizational profile	
18	Manufacturer Authorization Certificate for major components like module, battery, luminary etc.	
19	Satisfactory Performance Certificate at least from 10 customers over a period of 2 years.	
20	Electrical contractor license.	
21	Toll Free number for after sell support.	
22	Covering letter	

## **Definitions**

### ***Solar Lighting systems***

The solar street lighting system as per this tender should comprise of a 74 watt solar PV module, a 75 AH lead acid tubular battery with a battery box, a luminary, a White LED of 12 watt capacity, control electronics, GI mast, inter-connecting wires/cables, module mounting hardware etc. as specified in the technical specifications and should be able to provide solar electricity for operating the lamp for dusk to dawn operation.

### ***Village Energy Committee***

The constitution of a Village Energy Committee should be through the Gram Sabha and got duly notified by the Gram Panchayat as a Sub-Committee or Standing Committee of the Gram Panchayat as per the relevant provisions of the State Panchayati Raj Act and rules in this regard. Care should be taken that the elected Panchayat member/s from that village are ex-officio members of the VEC.

### ***Balance of System (BOS)***

The balance of system or BOS encompasses all components of a photovoltaic system other than the photovoltaic panels. This includes wiring, switches, support racks, an inverter, and batteries in the case of off-grid systems. In the case of free-standing systems, land is sometimes included as part of the BOS.

### ***Manufacturer / Supplier***

1. A person, group, or company that owns or runs a manufacturing plant.
2. A person, group, or company that manufactures.
3. A person, group, or company that supplies from the manufactures.

### ***CMC***

Fixed fee service provided by a contractor for periodic maintenance of a buildings or equipment which in the present case would include 5 years maintenance of the installed solar PV systems including all required spares and consumables and even total replacement of the system, if necessary.

### ***Warranty***

A written guarantee, issued to the purchaser of an article by its manufacturer, promising to repair or replace it if necessary within a specified period of time.

## **1. Eligibility Criteria**

- 1.1 The bidder should either be a reputed MNRE approved manufacturer of Solar PV Modules (using mono/poly silicon crystalline Cells) or a Solar PV System Integrator and should have experience of having executed contracts of Supply, Installation and Commissioning of Solar PV power plant in different location in the country.
- 1.2 The bidder should have test certificate after **1<sup>st</sup> April, 2017** for the complete system as per the technical specification furnished here in the name of the bidder. The test certificates should be from MNRE approved laboratory.
- 1.3 The bidder should have experience of installing more than 250 solar street lights at Panchayat level.
- 1.4 Preferably have office & field service center within 50 km from the place of installation to provide good after sale services including necessary repair and maintenance. The name, address and mobile number of the contact person to be provided.
- 1.5 Must submit documents for having cumulative financial turnover of more than 25 crore with profit earn for each year in last 3 year.
- 1.6 Bidder should be in solar power business in India for at least last 5 years.
- 1.7 Bidder should provide CIN no. and GST no.
- 1.8 Bidder should have toll free no. for after sales support.
- 1.9 Bidder should submit manufacturer authorization certificates for all the major components like solar module, battery, luminary etc.
- 1.10 Bidder should submit satisfactory performance certificate at least from 10 customers for over 2 years.
- 1.11 The bidder should have electrical contractor license in the name of the bidder.

## **2. Scope of the work**

The broad scope of the work would be supply, installation, commissioning and maintenance for 5 years of the specified solar PV systems in specified community centers, locations in specified remote villages/hamlets. This would inter-alia include

- 2.1 A clear understanding of the logistics and other features of the assigned remote villages. This may require a prior visit to the enlisted villages.
- 2.2 Storage facility to be provided by the vendor for pre-installation inspection at intermediate points for facilitating inspection by the designated official of DPMU, NUAPADA.
- 2.3 Supply of complete solar PV systems like Street Lighting Systems (SLS) as per technical specifications given subsequently in this document.
- 2.4 Installation of the supplied systems in specific locations like community, waysides or as directed by the designated officials of DPMU, NUAPADA in consultation with the respective village energy committees.
- 2.5 Comprehensive Maintenance Contract (CMC) of the complete system for five years warranty period. The date of commencement of CMC shall be reckoned from the date of commissioning of the last system of the given order.
- 2.6 The successful bidder shall after completion and commissioning of the systems submit all details of the installed systems like beneficiary details, systems details, installation report, etc. in the formats to be provided at the time of issue of purchase order. The details will also include Photographic proof of delivery of the system to the genuine beneficiary, GPS location of the village.
- 2.7 All necessary conditions as further outlined in the subsequent sections of this document are to be followed.

### 3 Instructions to Bidders

- 3.1 Bidders must submit their bids for Solar Lighting Systems.
- 3.2 Bids must be submitted in English language only.
- 3.3 In-complete, telegraphic or conditional bids shall not be accepted.
- 3.4 Prices quoted must be firm and fixed. No price variation / escalation shall be allowed.
- 3.5 The bidders must sign and stamp at the bottom of each page of the bid documents at the time of submission in token of unconditional acceptance of the departmental terms and conditions, technical specifications etc.
- 3.6 Last IT Return Statement /Valid TIN / VAT/ GST/ Sales Tax Clearance Certificate / Copy of PAN card / Copy of Service Tax Registration Certificate duly attested must be submitted along with the bid.
- 3.7 Deviations in Terms and Conditions, Specification of material, Inspection clause etc. will not be accepted under normal conditions. However under exceptional situation the same may be considered at the discretion of COLLECTOR, NUAPADA.
- 3.8 Earnest money as specified in bid may be deposited in shape of Demand Draft drawn in favour of the COLLECTOR, NUAPADA payable at Nuapada from any Nationalized Bank. **Bids without E.M.D and Cost of Tender Papers shall not be accepted.**
- 3.9 Bids received late due to postal delay or otherwise **will not be considered.**
- 3.10 The quantity of materials intended to be purchased as mentioned in this documents is subject to alteration without any notice.
- 3.11 The bidders are required to furnish their offers in the price bid both in words & figures. In case of corrections ,if any, the original text/numerical must be clearly crossed out and re-written legibly above, below or on the side of the crossed out characters as per availability of space and the authorized person must put his dated initial under such corrections. In case of any conflict between figures and words, the later shall prevail.
- 3.12 Since timely execution of works is of paramount importance, requests for extension of time shall not be ordinarily entertained.
- 3.13 Canvassing in any manner shall not be entertained and will be viewed seriously leading to rejection of the bid.
- 3.14 All essential supplementing documents should be signed and stamped and in case of need for verification , originals should be produced
- 3.15 Copy of Test Reports from Solar Energy Centres (SEC)/Other Authorized Test Centres (OATC) in regards to SPV Systems confirming to MNRE specifications spelt out in the Administrative Approval of Jawaharlal Nehru National Solar Mission vide MNRE communication No.5/23/2009-P&C dt. 8.7.2010, would be a major criteria for evaluation of bids.
- 3.16 The out of state bidders must be having / willing to open a local office at Bhubaneswar before commencement of work for close coordination with DPMU, NUAPADA and also cluster level service centres at suitable places as will be indicated by DPMU, NUAPADA during installation of the systems.
- 3.17 The bidders must remain prepared for submitting information such as identity proof of beneficiaries, photographs, GPS locations of the villages etc. along with installation reports.

- 3.18 The bidders who desires to participate in this tender process, should come with one set of sample of LED based Solar Light System as per the Technical Specifications mentioned in the Tender Documents with due Test Performance Certificate of the said Unit issued from any Government Laboratory. The said unit must be produced on the day of opening of tenders, failing which their Technical Bid will not be taken into consideration for opening.
- 3.19 The successful bidders are required to Performance Test Check each unit of Solar Panel and Battery in any Government Laboratory, before delivery at the site and Test Performance Certificate of each battery and Solar panel should be produced before Deputy Director (P&S), DPMU Nuapada / Head of the concerned institution / Sarpanch concerned at the time of delivery / before installation.
- 3.20 The bidders during installation of the systems will be required to install signboards indicating details of the project as per direction of DPMU, NUAPADA.
- 3.21 Power of attorney to sign the agreement on behalf of bidders & partnership deed articles, if any, should be enclosed along with original bid documents.
- 3.22 Notice inviting tender, bid documents, prescribed Technical bid, price bid, terms & conditions will form the part of the tender.
- 3.23 Bids will be accepted & will be opened as per information mentioned in the notice- inviting tender. No receipt against submission of bid shall be issued by DPMU, NUAPADA.
- 3.24 The last date of receipt of the bid is ..... up to .....PM. Sealed tenders shall only be received by the DPMU, NUAPADA only through Speed Post. Bids received after due date & time will not be considered. The bids downloaded from the Official Website, of such firms, accompanied with a Bank Draft for the prescribed fee (Non refundable) towards the cost of Tender Paper shall only be considered. If due to any reason the due date is declared as a holiday the bid will be opened on next working day at the same time.
- 3.25 The technical bid shall be opened on ..... at ..... in the office chamber of Collector, NUAPADA at Nuapada, in presence of such bidders or their authorized representatives, who may like to be present at the time of opening.
- 3.26 The bid document should be submitted in two parts as detailed below:
- 3.27 Bids should be submitted through Registered Post / Speed Post in two separate sealed envelope as mentioned below & addressed to the COLLECTOR,NUAPADA, At/Po/Dist: NUAPADA, 766105, inside a sealed envelope super scribed " Bid for Solar PV Lighting System against Bid Call Notice No. .... /DPMU, NUAPADA dtd..... First sealed envelope should contain Demand draft towards cost of bid document and cost of tender papers, Technical Bid as per Annexure – A, prescribed test certificate, Earnest Money, Technical Specification, valid VAT/GST / Sales tax clearance certificate, Income Tax return, PAN card, Service Tax Registration Certificate Commercial terms & conditions, other bid documents duly signed & sealed, Indignity Certificate, organizational profile, balance sheets and profit & loss accounts for last three years, certificate and proof as per qualification criteria, other required documents as mentioned in the check list as well as brochure, literature etc. It should be super-scribed with Part-1 Technical Bid ". All the papers of bid

documents except the price bid duly signed should be submitted in the first envelope. Required earnest money deposited in the form of Demand draft in favour of COLLECTOR, NUAPADA payable at Nuapada should be attached.

- 3.28 Second sealed envelope: (part-II) should contain Price bid as per Annexure –B, in a separate sealed envelope. It should be super-scribed with "PART- II PRICE BID". Any condition in regard to financial aspects, payments, terms of rebate etc beyond the prescribed financial terms of DPMU, NUAPADA will make the bid invalid. Therefore it is in the interest of the bidders not to write anything extra in the Price Bid in Annexure-B except price.
- 3.29 In case of supply of any defective material or substandard material, the materials will be rejected and it will be the responsibility of the supplier for taking back and replacing the rejected materials at their own cost. In case of non lifting of such rejected materials within a reasonable time offered by the office, it will have the right to suitably dispose of the same and forfeit the amount.
- 3.30 The supplied materials should be strictly complied with the specifications as mentioned in the bid ; otherwise the materials would be liable for rejection.
- 3.31 The authority reserves the right to cancel or postpone the bids without assigning any reason thereof.
- 3.32 During the warranty period, Officials of District Administration / PRI members / Users reserves the right to cross check the performance of the system with the minimum performance levels as per specifications.

#### **4 Procedure for opening the bids**

The procedure of opening of the bid shall be as under

- 4.1 First envelope “TECHNICAL BID” shall be opened at the time & date mentioned in the bid notice by DPMU, NUAPADA in the presence of bidders / or their representative, who choose to be present.
- 4.2 Second envelope (part-II) containing Price bid shall be opened after evaluation of technical suitability of the offer. The date for opening of second envelope (Price bid) shall be communicated subsequently. Second envelope of only those bidders shall be opened who qualify in the technical bid. If necessary, the firms may be called for Technical Presentation of their product as per the time intimated by DPMU, NUAPADA and submission of samples of SLS.
- 4.3 All taxes applicable at the time of supply will be charged separately and deducted at source.
- 4.4 In case of supply of any defective material or substandard material, the materials will be rejected & it will be the responsibility of the supplier for taking back & replacing the rejected materials at their own cost. In case of non-lifting of such rejected materials within a reasonable time offered by the office it will have the right to suitably dispose off the same and forfeit the amount.
- 4.5 The supplied materials should strictly comply with the specifications as mentioned in the bid, otherwise the material would be liable for rejection.
- 4.6 Any clarification on the technical specification and commercial terms and conditions may be clarified in writing from DPMU, NUAPADA.
- 4.7 Deviation of any commercial terms and condition and technical specification shall not be entertained under no circumstances.

4.8 Bidders may in their own interest visit the sites and undertake field survey before submitting bids. DPMU, NUAPADA will not be responsible for any incidental or consequential losses of the firms while execution and till expiry of the period of CMC.

4.9 All the bidders shall essentially indicate the break-up of prices as shown in Price bid.

4.10 During the warranty period, MNRE/ State Agencies/ Users reserve the right to cross check the performance of the systems with the minimum performance levels specified in the MNRE specifications.

## **5 Acceptance/ Rejection of the bid documents**

The COLLECTOR, NUAPADA reserves the right to

- i) reject or accept any or all bids without assigning any reason thereof.
- ii) to split the quantities against the bid on more than one firm for the same items/ work.
- iii) cancel the tender without assigning any reason thereof.
- iv) alter or delete any of the terms and conditions mentioned in this document during the process of tender till finalization.

No reason will be assigned by DPMU, NUAPADA for this and the same will be binding on the bidders.

COLLECTOR, NUAPADA.

I/we have carefully read & understood the above terms & conditions of the bid & agree to abide by them.

Signature of Bidder with Seal

## 6 Commercial Terms & Conditions

### 6.1 Rate

The offer should indicate the unit cost of the system, Installation & Commissioning charges, CMC Charges and taxes & duties separately. The unit cost must be inclusive of packing, forwarding, loading & unloading charges, cost of insurance and transportation FOR destination where the system will be installed as per the work order.

### 6.2 Sales Tax & Duties etc

All Taxes and duties as prescribed both under Central and State Government sales tax rules would be applicable and will be deducted at source at the time of payment of bills.

### 6.3 Earnest Money Deposit

6.3.1 Earnest money for an amount ( Rupees ..... ) only is required to be deposited along with the bid without which the bid will not be accepted. No interest will be payable on the EMD amount under any circumstances.

6.3.2 Earnest money can be deposited in shape of a Demand Draft in favour of COLLECTOR, NUAPADA from any Nationalised Bank Payable at Nuapada and the proof of deposits should be attached to the bid.

6.3.3 E.M.D would be refunded to the unsuccessful Bidders after finalization of the bid without any interest.

6.3.4 EMD would be refunded to successful bidder(s) after submission of security deposit as detailed at clause 6.4.

6.3.5 E. M. D would be forfeited in case of non- compliance of the purchase order by the successful bidder.

6.3.6 In case of claim for exemption from deposition of Earnest money sufficient proof in support of claim for exemption of EMD as prescribed in Govt. of India Notification is to be attached with the bid.

6.4.1 **Security Deposit/ Performance Guarantee Fees:** The successful bidder must deposit the Security amount / Performance Guarantee fees @ 10% of the ordered value with the COLLECTOR, NUAPADA, at the time of acceptance of the work order in shape of Bank Guarantees / STDR / TDR in two parts, 50 % value with 5 ½ years validity and the balance 50% value with 10 ½ years validity from the date of acceptance of the work order or till the completion of respective warranty periods whichever is later. The said deposit would be forfeited, if the supplies are not made as per the Terms & Conditions of the purchase order. 50% of the security deposit amount will be refunded after the expiry of the Warranty period and CMC period (ref. clause 2 of Scope of Work) of the systems, subject to satisfactory execution / performance of the systems. Balance 50% of the Security deposit shall be released after expiry of warranty period of 10 ½ years provided for the SPV modules subject to the successful performance.

6.4.2 **Additional Performance Security:** Additional Performance Security shall be deposited by the bidder when the bid amount is less than the estimated cost put to tender. In such an event, the bidders who have quoted less bid price / rates than the estimated cost put to tender shall have to furnish the exact amount of differential cost i.e estimated cost put to tender minus the quoted amount as Additional Performance Security in shape of demand draft / Term deposit receipt pledged in favour of the Collector, Nuapada and payable at

Nuapada in the sealed envelop along with the price bid at the time of submission of bids. If the contractor fails to complete the work, the amount so furnished as Additional Performance Security will be forfeited in addition to the other penal clauses, if any to be imposed.

#### **6.5 Allocation of work:**

In view of large geographical spread, remoteness, limited time available for completion of the project as well as past experience DPMU, NUAPADA reserves the right to split the work order suitably among the techno-commercially qualified bidders provided that the second, third bidder or latter in serial order positioned based on their lowest quoted prices agree to execute the work at the prices quoted by L1 bidder. In such case the order will be split equitably to the maximum extent possible with regards to the value of the order. If only two bidders will be agreeable to execute the work at L1 prices the total order will be divided equally between the two. If other bidders are not agreeable to execute the work at L1 price then the entire work is to be executed by L1 bidder. While splitting DPMU, NUAPADA would consider to allot villages/GPs/Blocks in contiguous manner taking village as a unit.

**The decision of COLLECTOR, NUAPADA in this regard shall be final and binding.**

#### **6.6 Programme Execution Schedule**

6.6.1 Delivery of systems at sites: 15 days from the date of issue of Work Order

6.6.2 Installation & Commissioning: 30 days from the date of issue of Work Order including preliminary inspection, physical verification and handing over of systems.

6.6.3 Upon intimation about commissioning of the systems by the executing firm a joint inspection will be carried out by the representatives of the executing firm, Village Energy committee/ Gram Panchayat / head of the concerned department, DPMU, NUAPADA. Following such inspection a joint commissioning report (Annexure-D) shall be brought out within 30 days of intimation about commissioning of the systems in the prescribed format, which shall form a part of the documents for release of payments.

6.6.4 The issuance of a Joint Commissioning Report shall, in no way relieve the executing firm of its responsibility for satisfactory operation of the SPV systems.

#### **6.7 Quantity**

The quantities of Solar Street Lighting Systems mentioned in the bid are subject to revision according to the requirement.

#### **6.8 Validity of offer**

The offer must be kept valid for a period of *one year* from the date of opening of the technical bid. No escalation clause except the admissible tax component under the period of consideration would be accepted. The validity can be further extended with mutual consent.

## **6.9 STCC**

The bidders must submit attested copy of valid up to date sales Tax / VAT clearance certificate along with the bid. The bid would not be considered without this document. The original certificate would be produced at the time of opening of the bid, or, before placement of purchase order, if required.

## **6.10 Warranty**

The complete Solar Street Light including battery and overall workmanship must be warranted against any manufacturing /design /supply /installation defects for a minimum period of 5 (five) years respectively from the date of commissioning of the systems.

Warranty certificate to the above effect must be furnished along with the commissioning reports.

Any defect noticed during warranty period should be rectified/replaced by the supplier free of cost upon due intimation by the concerned VEC/Institution / District Renewable Energy Cell of DPMU, NUAPADA. The warranty period shall be extended by the period during which the systems remain non- operative due to reasons within the control of the executants. Care should be necessarily taken to make the system operational within a week of reporting of defect. If the system is not made operational within fifteen days, DPMU, NUAPADA may rectify the same and charge all expenses incurred on the said account to the vendor. The defects should not be ordinarily attributed to tempering by the users. The firm has to devise suitable mechanism to ensure non-tempering of systems.

## **6.11 Penalty and termination of contract**

The systems shall be supplied, installed and commissioned within the scheduled time. If the supplier fails to adhere to the schedule, COLLECTOR, NUAPADA shall without prejudice to its other remedies under the contract deduct from the contract price as liquidated damages a sum equivalent to 1% of the delivery price of the delayed goods or unperformed services for each week of delay until actual delivery or installation/commissioning up to a maximum deduction of 10% of the contract price for delayed goods or installation and commissioning. Once the maximum is reached (i.e 10 weeks of delay) COLLECTOR, NUAPADA may consider termination of the contract and forfeit the security deposit without prejudice to the other remedies of the contract along with recovery of mobilization advance by forfeiture of bank guarantee.

However, COLLECTOR,, NUAPADA may at his own discretion allow reasonable time extension upon written application of the supplying firm. If the delay is considered intentional or due to negligence of the vendor extension can be allowed with imposition of penalty. If the delay is considered to be genuine time extension can be allowed without imposition of penalty.

## **6.12 Force Majeure**

The supplier of the SPV system shall not be charged with liquidated damages nor shall his security for performance be forfeited when failure of the supplier in making delivery is due to any event beyond the control of the supplier and could not have been

foreseen, prevented or avoided by a prudent person. These include, but are not restricted to acts of God, acts of public enemy, acts of Government, fires, floods, epidemics, strikes, freights, embargoes and unusually severe weather.

### **6.13 Inspection**

6.13.1 All tests and inspections shall be made at the place of delivery unless otherwise specifically agreed upon by the bidder and COLLECTOR, NUAPADA at the time of purchase. Authorized DPMU, NUAPADA Officer shall be entitled at all reasonable time to inspect and supervise and test during erection and commissioning. Such inspection will not relieve the executing firm of their obligation in the contract.

6.13.2 COLLECTOR, NUAPADA reserves the right to have the tests carried out at own cost by an independent agency at any point of time. Pre- delivery inspection at the factory site if necessary will be carried out by DPMU, NUAPADA.

### **6.14 Payment**

Payment will be made as per the following schedule subject to submission of completed documents as detailed against each

6.14.1 First Interim Payment @ 70 % of work value shall be paid after installation and commissioning of the solar system at site.

6.14.2 Second interim payment @ 20 % of the work value shall be paid after three months from the date of installation and commissioning of the solar system at site.

6.14.3 Final payment @10% of the contract value shall be treated as Performance Security and shall be paid against satisfactory performance and maintenance of the solar system during warranty period. This amount shall be paid in five equal annual installments starting from completion on one year from the date of installation at site ( excluding AMC charges) on receipt of performance report duly signed by authorized officer of district administration / District Energy Committee.

### **6.15 Execution**

Execution of work shall be carried out in an approved manner as outlined in the technical specification or where not outlined, in accordance with relevant Indian Standard Specification, to the reasonable satisfaction of the Officer Authorized by the DPMU, NUAPADA.

### **6.16 Comprehensive Maintenance Contract**

The bidder must enter into a Comprehensive maintenance contract for the specified period at the time of execution of the order. Offer without such CMC shall not be considered.(sample format of CMC enclosed at Annex- E) The scope of CMC must cover supply of spare parts ( including battery) / services during the contract in force. Order shall be placed on bidders who agree to offer such CMC. The CMC charges quoted by the bidder must be realistic in view of actual rendering of after sale services. Bids with very low/unrealistic CMC charges will be liable for rejection. The payment of annual maintenance charges under the Comprehensive Maintenance Contract shall depend upon the functionality of the system duly certified by the concerned Local Panchayat /Institution/ Authorized officials of DPMU, NUAPADA. Upon receipt of such certificates CMC amount as applicable shall be paid at the end of 1st, 2nd, 3rd, 4<sup>th</sup> and 5<sup>th</sup> years or as decided by the COLLECTOR,NUAPADA.

**6.17 Limitation of Liability**

COLLECTOR, NUAPADA, will, in no case be responsible for any accident fatal or non-fatal, caused to any worker or outsider in course of transport or execution of work. All the expenditure including treatment or compensation will be entirely borne by the Executants. The Executants shall also be responsible for any claims of the workers including PF, Gratuity, ESI & other legal obligations.

**6.18 Dispute**

For adjudication of any dispute between COLLECTOR, NUAPADA and the bidders arising in this case, reference can be made to any Court of Law under the jurisdiction of Orissa High court only. The COLLECTOR, NUAPADA reserves the right to accept or reject any or all bids without assigning any reason thereof.

COLLECTOR NUAPADA

I/We have carefully read and understood the above terms and conditions of the bid and agree to abide by them.

SIGNATURE OF BIDDER WITH SEAL

## 7 Technical Specification for Solar Street Lighting System

### Definition:

A stand alone solar photovoltaic Street Lighting System comprises a White LED Lamp, lead acid battery, PV module(s), control electronics, Inter connecting wires/cables, module mounting hardware, battery box, operation instruction and maintenance manual.

### Project Summary.

Component	Specifications
<b>Title</b>	<b>Supply, Installation and Commissioning of Solar LED Street</b>
PV Module Capacity	80Wp
Luminary	12W
Battery Size	75Ah/12V
Pole Size	23 Feet
Geographical Co-ordinate	
Recommended distance between two pole	10m
Estimated Project Cost	

### Technical Specification of Solar LED Based Street Lighting System (12W-LED STREET LIGHT)

Sl. No	Item Description	Qty.
1	12W LED base Solar Street Lighting System Comprising With:- 12Volt 80Wp Solar Photovoltaic Module (Make-TATA / Websol / CEL / HR Solar / Vikram Solar / Andromeda)	1
2	12 Volt 75 Ah lead acid battery with Battery Box. (Make Exide / Southern /Amara Raja)	1
3	12 Volt 12 Watt LED luminary with driver electronics and Dusk to Dawn operation. (Make-Osram / CREE / Philips)	1
4	23 Ft. galvanized pole with suitable module mounting structure and luminary bracket.	1
5	2.5sq.mm. Cable for interconnection. Necessary fasteners and accessories.	As required

## **Brief description of major components:-**

### 1. SOLAR PHOTOVOLTAIC (PV) MODULES

The PV modules must conform to the latest edition of the following IEC / equivalent BIS Standards for PV module design qualification and type approval:

<b>Sl. No</b>	<b>Standard</b>	<b>Description</b>
1	IEC: 61215/IS: 14286	Crystalline silicon terrestrial photovoltaic modules – Design qualification and type approval.
2	IEC : 61730-Part 1	Photovoltaic (PV) module safety qualification – Requirements for construction.
3	IEC: 61730-Part 2	Photovoltaic (PV) modules safety qualification – Requirements for testing.
4	IEC: 61701/IS: 61701	Salt Mist Corrosion Testing of the module.

The proposed PV Module must have the Test Certificate issued from accredited test laboratories of Ministry of New and Renewable Energy, Government of India. Type test certificates issued from IEC accredited laboratories shall be acceptable.

#### Identification and Traceability:

Each PV module must use a RF identification tag (RFID, which must contain the following information:

- i. Name of the manufacturer of PV Module.
- ii. Name of the Manufacturer of Solar cell.
- iii. Month and year of the manufacture (separately for solar cells and module).
- iv. Country of origin (separately for solar cells and module).
- v. I-V curve for the module.
- vi. Peak Wattage,  $I_m$ ,  $V_m$  and Fill Factor for the module.
- vii. Unique Serial No and Model No of the module.
- viii. Date and year of obtaining IEC PV module qualification certificate.
- ix. Name of the test lab issuing IEC certificate.
- x. Other relevant information on traceability of solar cells and module as per ISO 9000 series.

RFID shall be available with each solar module and must be capable to withstand environmental conditions as per latest Guideline of MNRE, Govt. of India.

#### Warranty:

- A. **Material Warranty:** The manufacturer should warrant the Solar Module(s) to be free from the defects and /or failures specified below for a period not less than ten (10) years from the date of sale to the original customer (i.e EPC contractor)
- i. Defects and / or failures due to manufacturing.
  - ii. Defects and /or failures due to quality of materials.
  - iii. Non conformity to specifications due to faulty manufacturing and /or inspection processes.

If the Solar module(s) fails to conform to this warranty the manufacturer will repair or replace the solar module(s) at the owner's sole option. The contractor shall be responsible to contact with the contractor if any of the above mentioned cases occurred.

B. **Performance Warranty:** The manufacturer should warrant the output of Solar Module(s) for at least 90% of its rated power after initial 10 years & 80% of its rated power after 25 years from

the completion of trial run at site / date of final commissioning.

Specification:

SL NO	Items	Description
1	Type	Crystalline Silicon- Poly (Capacity of 80Wp)
2	Efficiency Module	Minimum 14% at STC
3	Cell Efficiency	Minimum 16% at STC
4	Fill Factor	Minimum 72%
5	No. Cells per module	36
6	Module Frame	Non-corrosive and electrolytically compatible with the structural materials, preferably anodized Al.
7	Termination Box	Thermo-plastic, IP 65, UV resistant
8	Bypass Diode	Yes, as required
9	Power rating	The nominal power of single PV module shall be min 80 Wp.
10	Power Tolerance	Up to +3 % (Only +ve tolerance is acceptable)
11	Glass	High transmittance glass
12	RF Identification tag for each solar module	Shall be provided inside or outside the module and must be able to withstand environmental conditions and last the lifetime of the solar module.

## 2. Battery:

- a) Low maintenance lead acid tubular plate battery.
- b) The battery have a minimum rating of 12V, 75 Ah at C/10 discharge rate.
- c) 75% of the rated capacity of the battery should be between fully charged and load cut off conditions.
- d) Battery should conform to the latest BIS / International standards.
- e) Life of the battery should be 5 (five) years from the date of installation.

## 3. Luminary:

Luminary should be a white LED having following specification / characteristics:

- a) White LEDs should not emit ultraviolet light.
- b) The light output from the white LED light should be constant throughout the duty cycle i.e. 12 hours (dusk to dawn operation) which should be provided.
- c) The luminary should be housed in an assembly suitable for outdoor use.
- d) Luminaries will be as per IP 65 Protection to prevent water seepage and entry of insects.
- e) The temperature of heat sink should not increase more than 20<sup>0</sup> C above ambient temperature during the dusk to dawn operation.

## Technical Specification:

- |                                |   |  |
|--------------------------------|---|--|
| LED Chips                      | : | Cree / Philips / Osram / Nichia / Epistar  |
| a) Power Consumption           | : | 12W with Driver  |
| b) Operating Voltage           | : | 12V DC (with uniform glow)   |
| c) Operating Life              | : | 5 years (12 h r per day operation)   |
| d) LED Lumens                  | : | 950 lm   |
| e) Efficacy of LED             | : | > 100 lm /W  |
| f) Burning Hours               | : | More than 25000BH without compromising lumen.  |
| g) Test Report                 | : | LM-79 & LM-80 reports.   |
| h) Housing LEDs                | : | Aluminum pressure die –casting with Poly Carbonate cover having IP-65 certificate (Test certificate to be submitted) |
| i) Driver Type & expected life | : | DC-DC Type, more than 25000 hours.   |

- j) Efficiency : More than 85%
- k) Colour Rendering index : R-70
- l) Heat Sink : Proper heat sink is to be provided with the fixture.

4. Pole

- a) Pole Material: MS with hot deep Galvanized
- b) Total length of the pole : 23 feet
- c) Thickness of the pole : As per ISI standard
- d) Thickness of the Galvanization : At least 80 micron.
- e) Battery box is to be fixed at the pole at 10 ft. height from the ground level. Lock and key arrangement should be provided.
- f) The pole should be appropriately designed to withstand high wind velocities up to 150 km per hour. (Staad Pro report for the same should be submitted).

5. Base foundation.

The size of foundation base is 300 mm. radius and 1050 depth (750 mm underground +300 mm above ground level). It is made with cement concrete 1:2:4 ratio of cement, sand and stone chips. The item includes of necessary earth work, curing, shuttering and placing the pole in proper vertical position etc. complete in all respect. The top of the foundation should be inclined to avoid the lockage of rain water.

6. Battery Box:

- Material : Galvanized
- Size : Depending on the battery size
- Gauge : 18 SWG

7. Installation of battery

Battery box to be fixed at the pole at a minimum height of 10 feet above the ground level.

8. Technical specification of charge controller:

- Ingress protection: IP -65
- Type: PWM with Dusk to Dawn control provision.
- Temperature sensor for temperature for compensation of charge voltage for proper charging of battery throughout year.
- 3 stage charging (boost, equalization, float)
- Automatic recognition of system

Nominal Voltage	12 V
Load Disconnect Voltage	10.8 V
Load Reconnect Voltage	11.5 V
Cut off Voltage	14.4 V
Dusk to Dawn control voltage	As suitable
Rating	10A
Efficiency	>80%
No load Current	<20 mA
Ingress protection	IP 65
Electrical Protection	<ul style="list-style-type: none"> <li>• Adequate protection is to incorporated under “No Load” conditions i.e. when the lamp is removed, the system is switched off.</li> <li>• Over &amp; Deep discharge protection of battery</li> <li>• Reverse Polarity protection for panel battery and PV module.</li> <li>• Fuse should be provided to protect against short circuit conditions.</li> <li>• Electronics should have temperature</li> </ul>

	<p>compensation for proper charging of the battery throughout the year.</p> <ul style="list-style-type: none"> <li>• Adequate protection should be provided against battery reverse polarity.</li> <li>• Load reconnect should be provided at 80% of the battery capacity status.</li> </ul>
Indicators	<ul style="list-style-type: none"> <li>• Charging by Green LED</li> <li>• Battery under Voltage by Red LED</li> </ul>

9. Cable:

- Size : 2.50 Sq.mm
- Make : KEI, Finolex, Havels, Mescab
- Certification : ISI

No exposure of cable will be allowed. In case of using flexible to avoid exposure the supplier has to use UV protective PVC / Flexible

10. Operation & Maintenance.

An Operation, Instruction and Maintenance Manual should be provided with the Solar Street Lightening System. The following minimum details must be provided in the Manual

- Basic principles of Photovoltaic.
- A small write-up (with block diagram) on Solar Street Lighting System-its components, PV module, battery, electronics and luminaries and expected performance.
- Type, Model Number, Voltage & Capacity of battery used in the system.
- The make, Model number, country of origin and technical characteristics.
- About charging and significance of indicators.
- Clear instructions on regular maintenance and trouble shooting of the Solar Street Lighting System.
- Dos & Don'ts.
- Name and address of the contact person for repair and maintenance, in case of non-functionality of the solar street lighting system.
- There shall be contact nos. (Mobile Phone No) of the service providers with Office Telephone no.

11. Warranty:

The complete system should be warranted for 5 years.

COLLECTOR NUAPADA

DISTRICTRT PLANNING AND MONITORING UNIT, NUAPADA.  
 FORMAT FOR WARRANTY CARD TO BE SUPPLIED WITH SOLAR STREET LIGHTING  
 SYSTEM.

Sl. No	Particulars	
1	Name & Address of the Manufacturer/Supplier of the System	
2	Name & Address of the Users / Village Energy Committee/ Institution	
3	Date of supply of the system	
4	<b>Details of SPV module (s) supplied in the system</b> (a). Make (Name of the manufacturer) (b). Model (c). Serial No. (s) (d). Wattage of the PV Modules under STC (e). Warranty valid up to	
5	<b>Details of Battery Make (Name of the manufacturer)</b> (a). Model Batch/Serial Nos.(s) (b). Rated V & AH capacity at C/20/C/10 rate at 20 C (c). Warranty valid up to	
6	Details of Electronics other BOS items Make (Name of the manufacturer) Model Serial No (s) Warranty valid up to	
7	Designation & Address of the person to be contacted for claiming warranty obligations.	

During the warranty period MNRE / DPMU, NUAPADA authorized Officer / Users / VECs nominated trained person reserves the right to cross check the performance of the system with the minimum levels specified in the MNRE specification.

(Signature)

Name & Designation

Name & address of the Manufacturer/Supplier

(Seal)

Place: -

Date: -

**TECHNICAL BID**

Supply, installation, commissioning and maintenance for Solar Street Lighting System.

We conform the following technical specification.

<b>Sl. No</b>	<b>Item</b>	<b>Description</b>
1.	PV Module(s) Capacity	
2.	Duty Cycle	
3.	Battery	
4.	Lamp	
5.	Electronics	
6.	Electronics Protection	
7.	Mechanical Hardware	
8.	Pole	
9	Cable	
10	Others Features	

SIGNATURE OF THE BIDDER WITH SEAL

## FINANCIAL BID

## SOLAR STREET LIGHTING SYSTEM WITH FIVE YEARS WARRANTY AS WELL AS CMC.

Sl. No	Item	Rate per system
1	Supply of Solar Street lighting System comprising of LED, Sealed Maintenance free Battery, PV module(s), control electronics (With a spare PCB), Interconnection wires and cables, Module mounting structure, Battery box etc, all complete as per technical specifications, operation instructions and maintenance manual all complete including packing & forwarding, loading and unloading charges and cost of insurance and transportation, delivery FOR assigned site.	
2.	Taxes & duties, if any on item-1 (Mention separately)	
3.	Sub Total (A)	
4	Installation & commissioning of the system at the given location and proper documentation thereof.	
5.	Taxes & Duties, if any on item-4 (mention separately).	
6.	Sub Total (B)	
7.	Annualized Comprehensive Maintenance Contract for five years: 1 <sup>st</sup> year , 2 <sup>nd</sup> year, 3 <sup>rd</sup> year, 4 <sup>th</sup> Year, 5 <sup>th</sup> Year	
8.	Taxes & Duties, if any on item-7 (mention separately).	
9.	Sub Total (C)	
10.	GRAND TOTAL (A+B+C)	

Bidders are required to follow the details of technical specification while quoting rates for each item

SIGNATURE OF THE BIDDER  
WITH SEAL

**ANNEXURE-III****MNRE Authorized Test Centres**

SI No	Name and Address of Test Center	Products Tested
1	Electronics Regional Test Laboratory (East), D N Block, Sector V, Salt Lake City, Bidhan Nagar, Calcutta - 700 091 Fax : 033-23679472 / 23678974 E.mail : ertleast@ertle.ernet.in	Solar Lighting Systems
2	Central Power Research Institute Energy Conservation and Development Division PBN0.8066 Sir C.V. Raman Road Bangalore:560080 Tel No. 080-23604682 080-23604682 , Fax: 080-23601213	Solar Lighting Systems
3	Solar Energy Centre (Ministry of New and Renewable Energy) Gwal Pahari, Gurgaon - Faridabad Road, Gurgaon - 122 001, Haryana, Telephone : 011- 2436 0331            011- 2436 0331 (New Delhi), 0124 - 2579207 0124 - 2579207            , 0124- 2579208 (SEC, Gurgaon)	Cells, Modules, Systems & Developmental Testing
4	Electronics Test and Development Centre (ETDC) Ring Road, Peenya Industrial Estate, Bangalore - 560 058 Telephone - 080 - 8395992, 080- 9394766 Fax - 080- 839 1804	PV Modules

**Joint Commissioning Report on installation of SPV systems under RVEP**

Village: Sanction details:  
 G.P.:  
 Block: SLS ( Nos):  
 District:

Name of the supplier:  
 Details of SLS installed:

S/N	Location of the system	Module No.	Battery No.	Electronics No.	Luminary No.	Date of Installation	Status of the system
1							
2							
3							
4							
5							
6							
7							
8							

**Representative of  
 supplying firm**

**Authorized Director  
 Signatory/RE Cell**

**Secretary  
 VEC**

**Representative  
 of Gram Panchayat  
 /Institution**

## SAMPLE FORMAT FOR C.M.C

(Subject to modification as per suitability of system and project requirement)

Comprehensive Maintenance Contract (CMC) for maintenance of SPV system supplied and install by M/S ..... for five years.

This Comprehensive Maintenance Contract (CMC) is executed between the COLLECTOR, NUAPADA ,At/Po/Dist: Nuapada, herein after called as 1<sup>st</sup> Party and M/S.....

..... herein after called as 2<sup>nd</sup> party, for maintenance of ..... sets of..... for a period of five years with effect from..... AD, supplied, installed and commissioned vide purchase order No..... Dated ..... in ..... village .....G.P. .... blocks of Nuapada Districts.

The 2<sup>nd</sup> party will maintain these ..... systems as per the terms and conditions mentioned here under.

1. It has been envisaged in the purchase order No ...../ DPMU, NUAPADA dated..... under clause No ..... that these ..... sets of..... shall be warranted against any manufacturing defect and bad workmanship at least for a period of 5 years for the system and battery and 10 years for the PV modules from the date of commissioning . As these systems have been commissioned and handed over to the 1<sup>st</sup> party through its Authorised Officer, / authorized DPMU, NUAPADA official at DPMU ..... During..... all these systems , as such are covered under warranty period up to .....,..... and ..... respectively.

Hence, the 2<sup>nd</sup> party is fully responsible for their trouble free maintenance and the 2<sup>nd</sup> party is liable to rectify / remove any defect noticed within the aforesaid period free of cost.

2. The 2<sup>nd</sup> party will impart training to two nos. of youth from each completed village to be able to provide first aid repair service for the SPV systems installed in the village.
3. The 2<sup>nd</sup> party will ensure a formal training of such identified youth (2 from each village) at a cluster level of villages in consultation with the 1<sup>st</sup> party.
4. An amount of 10% of the ordered value shall be kept as fees towards Performance guarantee for a period of 10 years of warranty & maintenance . After expiry of the successful and satisfactory maintenance period of 10 years which remains valid up to ..... AD , the security deposit / PGF shall be returned to the 2<sup>nd</sup> party thereafter only.
5. The CMC includes repair/ replacement of all spares and consumable, including CF Lamp, battery & PV module during the maintenance period.
6. The 2<sup>nd</sup> party will setup a state level office at Bhubaneswar duly headed by a Service Engineer.
7. The 2<sup>nd</sup> party shall undertake the periodical maintenance work of these ..... sets prescribed formats attached herewith ( Format I ) on the 10<sup>th</sup> of every succeeding quarter duly countersigned by the concerned designated officer.

8. The 2<sup>nd</sup> party should be in readiness to attend to the defects of any system ( out of these ..... Sets ), as and when required by the beneficiary/ 1<sup>st</sup> party and ensure rectification of defects and restore functionality within seven days of lodging the complaints. The 2<sup>nd</sup> party shall furnish the status report after the maintenance work are over, which shall invariably bear the signature of the beneficiaries as per the format annexed herewith (format- II).
  9. The 2<sup>nd</sup> party shall appraise the 1<sup>st</sup> party about the requirements and supply of spares during warranty as well as CMC period.
  10. The 2<sup>nd</sup> party will ensure to submit quarterly reports of visits made by their representatives to the completed villages every three months during the warranty and CMC period.
  11. The 1<sup>st</sup> party in consultation and cost sharing with the 2<sup>nd</sup> party will maintain a central complaint cell at Bhubaneswar along with adequate stock of spare parts as a backup.
  12. Separate bills/ invoices in triplicate enclosing the prescribed formats duly filled in (Format-I and II ) are to be submitted by the 2<sup>nd</sup> party to 1<sup>st</sup> party for effecting payment after end of the each year from the date of maintenance of the systems.
  13. Certificates in support of successful maintenance of the system(s) shall be obtained from the users which should be countersigned by the Authorised Officer, RE Cell , DPMU, NUAPADA in token of verification of maintenance done.
  14. It will be the liberty of the 1<sup>st</sup> party to cross check the systems maintained by the 2<sup>nd</sup> party. Random verification of the maintenance may be carried out by the 1st party wherever necessary.
  15. The 2<sup>nd</sup> party may continue to maintain the gadgets after expiry of the maintenance period of 10 years , provided the beneficiaries/ 1<sup>st</sup> party desires.
  16. For adjudication of any dispute between the two parties arising on execution of this CMC , the matter shall first be brought to the notice of Chief Executive, DPMU, NUAPADA.
  17. In case, there will be no amicable settlement of the issues, the matter can be referred to the court of law having jurisdiction at Bhubaneswar only.
- This Annual Maintenance contract is signed jointly between the two parties today i.e on dated ..... day of ..... Month and ..... Year, and shall come into force from the date of its signature(s).

1<sup>st</sup> Party)

( 2<sup>nd</sup> party) with Seal )

COLLECTOR, NUAPADA  
( Seal)

Witness

*(Representative AUTHORIZATION Letter in the Letterhead of the applicant)*

Date : \_\_\_\_\_

Ref : \_\_\_\_\_

To,

**The Collector, Nuapada,  
District Planning & Monitoring Unit, Nuapada.  
At/Po- Dist: Nuapada, 766105 (Orissa)  
Tel:-06678-225584,252463 Fax-252465.**

Ms. /Mr. \_\_\_\_\_ is hereby authorized to sign relevant documents on behalf of the company/firm in dealing with bid invitation reference No. -----.  
She/He is also authorized to attend meetings and submit technical and commercial information as may be required by Collector, Nuapada in the course of processing above said application. Ms. /Mr. \_\_\_\_\_ is hereby authorized to make technical presentation on behalf of the company.

(Proof of above two persons as employee of the company to be enclosed)

Thanking you,  
Authorized Signatory

\_\_\_\_\_

Representative Signature

\_\_\_\_\_

Signature attested

**PROFILES OF PROJECTS COMPLETED**

1. Name of client
2. Name of the Project
3. Brief Description of the Project
4. Scope of the Project (Activities Involved)
5. Details of Solution and Methodology Adopted
6. No. of Locations at which Project is being/was implemented
8. Value of the project (INR)
9. Date of award of contract
10. Date of commencement of the project
11. Date of successful completion of the project
12. If not completed, expected date of completion
13. Name of the person who can be referred to from Clients' side, with Name, Designation, Postal address, Contact phone, FAX number, e-mail id etc.

**Authorized Signatory**  
**(Company Seal)**

*Attach Additional Sheets and Annexure, if required.*

**BRIEF VENDOR PROFILE**

01 Name of the Firm/Company

02 Year Established

03 Address of Office

04 Telephone No.

05 Fax No.

06 E-mail Address

07 Website

08. PAN No.

09. GST Clearence No. / TIN No.

10 Sectors' in which the company/firm has successfully commission SPV Street Light Systems against the work order of Govt./ PSU/ Agencies in India

11 No. of full time personnel currently under employment

12 No. of years of proven experience of providing similar Services

13 Certifications (ISO \_\_\_\_\_, if any)

**Authorized Signatory  
(Company Seal)**

**DECLARATION**

Date: \_\_\_\_\_

Ref: \_\_\_\_\_

To,

**The Collector, Nuapada, District Planning & Monitoring Unit, Nuapada.**

**At/Po- Dist: Nuapada, 766105 (Orissa) Tel:-06678-225584,252463 Fax-252465.**

Ref: Declaration Letter for firms for installation, commissioning and maintenance of SPV Street Lighting Systems.

Dear Sir,

This is to notify you that our Firm / Company intend to submit a proposal in response to your Tender Reference No: ----- In accordance with the above we would like to declare that:

a) We are not involved in any litigation that may have an impact of affecting or compromising the delivery of services as required under this assignment

b) We are not blacklisted by any Central / State Government / Public Sector Undertaking in India.

Sincerely,

[BIDDER'S NAME

Name

Title

Signature

Date

Company Seal

**UNDERTAKING**

I

.....

Son / Daughter

.....

Resident of

.....

Being Proprietor/ Partner/ authorized representative of M/S

.....

of whose State Sales Tax Registration No VAT /GST and TIN . is

.....

CST Registration No. is

.....

and Income Tax P.A No. is

.....

Hereby give consent to Collector, Nuapada to deduct from our Bill whatever dues of the ST & IT Department on their demand.

Place:

Date:      SIGNATURE:

NAME:

SEAL:

DISTRICT PLANNING AND MONITORING UNIT, NUAPDA.  
FORMAT-I

(To be furnished in duplicate by the 2<sup>nd</sup>  
Party)

STATUS REPORT OF SPV SLS

(A) PARTICULARS

1. Name of the beneficiary VILLAGE :
2. (a) Placement of installation  
(village/hamlets).  
(b) Gram Panchayat :
3. Block :
4. District :
5. Date of visit :
6. Type of installation
7. Name & Address of the Staff  
: visiting the installation.

(B) OBSERVATIONS (To be filled in by the staff visiting the installation).

- (i) Have seen any :
8. Visual damage of the system
9. Damage of the module :
10. Sl. No. & make of the module :
11. Sl. No. of the system :
12. Condition of the battery :
13. Make & Sl. No. of the battery :

- (ii) Conditions of the
14. Electronic Controller :
15. Compact Fluorescent Lamp :
16. Electrical condition :
17. Routine maintenance work :
- (i) Cleaning of the module surface :
- (ii) Topping of the battery :
- (iii) Tightening of the all electrical connection :
- (iv) Changing of Tile angle of the module mounting structure.
- (v) Cleaning & greasing of the battery terminal :
18. Type of repair / rectification carried out :
19. Suggestion imparted to the beneficiary :
20. Remarks of the beneficiary :

Dated Signature of the beneficiary  
/ representative (with name & stamp if  
any)

Signature of the staff visiting the  
installations with date

DISTRICT PLANNING AND MONITORING UNIT, NUAPADA.  
FORMAT-II

REPAIR & MAINTENANCE OF SOLAR STREET LIGHTING SYSTEM

1. Date of Inspection :

2. Location :

Village	Block	District

3. Battery make & No. :

4. Module make & No. :

5. Make of the System :

6. Visual Inspection (conditions of)

(a) Module

(b) Mast

(c) Luminaire

(d) Electronics

(e) Battery

7. Battery condition :

Cell No. :

Cell Voltage :

SP. Gr. :

Terminal : Clean / Not clean

Battery box condition : O.K / Not O.K.

Volt Plugs : Clean / Not clean

8. (A) General Maintenance
- (a) Distilled water quantity replenished :
  - (b) Checking of battery terminals :
  - (c) Cleaning of Luminaires :
  - (d) Tightening of loose connection :  
(if any).
  - (e) Cleaning of module :
- (B) Repairs done
- (a) Replacement of Luminaires
  - (b) : Replacement of charge controller /  
Inverter.
  - :
  - (c) Any other repair / replacement done :
- (D) Repairs if any to be done further

Remarks

Signature of the Inspecting Agency Date:-	Signature of the Representative of the Supplier (2 <sup>nd</sup> Party)
Name & Signature of the User Date: -	