

**Bid Specifications for Design, Manufacture, Testing,
Supply, Installation & Commissioning of 12KWp
Rooftop SPV Power Plants with 15 KVA Genset.**

VANANCHAL GRAMIN BANK

Head Office, Shiv palace

Dangal Pada, Dumka

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List of Important dates & details of Bids

1.	Name of work	Design, Manufacture, Testing, Supply, Installation & Commissioning of 12 KWp Rooftop SPV Power Plants with 15 KVA Genset
2.	Tender reference no.	
3.	Completion period	6 Weeks
4.	Mode of submission of tender	Offline
5.	Tentative Quantity	01 No
6.	Cost of Bid document (Non-refundable)	Rs.10,000/- (Ten Thousand)
7.	Earnest Money Deposit	2% of quoted amount
8.	Publishing on website	Date:
9.	Bid offline submission	End Date:
10.	Technical bid opening date	
11.	Authority inviting bids	General Manager (Admin)
12.	Bid offline submission Address	Vananchal Gramin Bank Head Office, Shiv palace Dangal Pada, Dumka

Note: Original tender document must be submitted between all working days from 30/04/2016 to 09/05/2016 by 4.30. PM. If tender document are not received before mentioned date and time, tender shall not be accepted.

Instructions to Bidders

1. The interested bidders can download the bid from the website **vananchalgraminbank.com**.
2. The bidders have to submit their bids offline. The bids without stamped & signature will not be accepted.
3. Bids will be opened as per time schedule mentioned.
4. All the required information for bid must be filled and submitted .
5. Following documents to be furnished :
 - A) D. D. towards Tender fee.
 - B) Duly pledged EMD
 - C) CST/VAT certificate
 - D) PAN Card
 - E) Firm's registration certificate
 - F) Certificate issued by Industry Dept. or MNRE for system manufacturing
 - G) Audited Balance sheet of last three years
 - H) IEC/IS certificate of Solar PV module
 - I) MNRE Channel Partner Certificate (SP1A / SP 1B/2A)
 - J) Annexure-1: Covering letter
 - K) Annexure-2: Information about the bidding firm
 - L) Annexure-3: Declaration by the bidder
 - M) Certificate Annual Turn over
 - N) Annexure-4: Format for power of attorney for signing of bid
 - O) Annexure-5: Proof of supply/execution of SPV Items/systems in any SNA/Govt. organization/PSU in the last seven years. Attach copy of orders & satisfactory completion certificate.

Notice Inviting Bid

Sub:Design, Manufacture, Testing, Supply, Installation & Commissioning of 12KWp Rooftop SPV Power Plants with 15 KVA Genset.

The Technical Conditions:

The bidder should fulfill the following Technical eligibility conditions:-

1. The bidder should be MNRE approved Channel Partner/ MNRE approved manufacturer/ MNRE approved PV System integrator/A registered manufacturing company/at least one of the major sub systems namely SPV Cells/ Modules or Battery or PV System Electronics (Conforming to relevant National/ International Standards). The bidder shall furnish MNRE certificate SP-1A or SP-1B or 2A.**Authorized dealers and subcontractors are not eligible to participate.**
2. The bidder should be a functional organization. To substantiate this claim, the bidder should submit the copy of audited balance sheet with profit & loss account for last 3 years. These audited balance sheets should be duly certified by the Statutory Auditor with his stamp.
3. The Bidder should have an average annual turn-over of minimum Rs.10 (Ten) crores during last three consecutive financial years (2012-13, 2013-14 & 2014-15) documents to be submit.
4. The bidder should submit Solvency Certificate of minimum 50 Lacs as certified by the bankers.
5. **Experience Requirement:**
Must provide acceptable documents (list of skilled manpower and machinery) for its capacity to design, supply, installation, testing, commissioning and comprehensive maintenance of cumulative 100 KWp solar power plant or more within the given time schedule.
6. The Prospective bidder must visit the site to ascertain the actual PV capacity, capacity mentioned in the tender is indicative.
7. The Prospective bidder must be manufacturer of one major component of solar PV system such as Module / Battery / Solar Electronics as per MNRE guidelines. Proof of manufacturing capacity to be attached.

Other Eligibility Conditions

The “Financial bids” of only those bidders shall be opened, who qualify in “Minimum Eligibility Conditions” as above and score at least 60 Points in “technical evaluation”. The “Points” for the “technical evaluation” shall be assigned as **under**:

S L. No.	Criteria	Point
1.	MNRE accredited Channel Partner Credit Rating of “SP 1A or SP 1B or SP 2A” SP 1A SP 1B SP 2A	20 15 10
2.	Cumulative Experience* of the Bidder in executing contracts of Solar Photovoltaic Systems/ Power Plant. (Installation & Commissioning of PV Systems/ Power Plants) >100 KW _p >200 KW _p	5 10
3.	Value of a “Single Order” * of PV Systems / Power Plants executed by the Bidder : Valued more than Rs. 50 lakhs Valued more than Rs. 1Crore	5 10
4.	Bidder has Test Certificate for SPV Modules, battery, Electronics etc from aMNRE authorized testing center. (Test Certificate should have been issued on or after April 2013.) Certificate for any one of the above Certificate for any two of the above	5 10
5.	The bidder is a SPV cells Manufacturing Company, Registered in India, with a min. Capacity of --- 1 MW _p per annum --- 2 MW _p per annum	5 10
6.	The bidder has ISO 9001 certification	10
7.	The bidder has ISO 14001 certification	10
8.	List of local service center in area of operation of the Bank	10
9.	Proof of being in Solar Power business More than 7 Years More than 5 years	10 5

***Bidder’s experience should be in supply, installation/commissioning (contracts executed,completed and handed over) of Solar Power Plants for :MNRE supported Schemes / Programmes, (including Projects executed by channel Partners availing MNRE support)**

OR

Any Government Organisation/ Agency/ SNA / PSU.

Annexure-1

NIT No:.....

FROM:-

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To

.....
.....
.....
.....

Subject: -Design, Manufacture, Testing, Supply, Installation & Commissioning of 12KWp Rooftop SPV Power Plants with 15 KVA Genset.

Sir,

We hereby submit our offer in full compliance with terms & conditions of the above tender. A blank copy of the tender, duly signed on each page is also submitted as a proof of our acceptance of all specifications as well as terms/ Conditions.

We confirm that, we have the capability to supply, install and carryout 5 years comprehensive warranty maintenance of actual numbers of Solar PV Power Plant Systems.

Signature of Authorized Person

NTINo:

Sl. No.	Particulars	
1.	Name of the Bidder	
2.	Address of Bidder with Telephone, Fax, email	
3.	Address of the Registered Office	
4.	Address of the works	
5.	Name & Designation of Authorized Signatory for Correspondence (Attach Power of Attorney as per Annexure-6)	
6.	Nature of Firm (Proprietorship/Partnership /Pvt. Ltd./Public Ltd. Co./Public Sector)	
7.	Permanent Account Number (PAN)/TIN (Attach proof)	
8.	Firm's Registration Number (Attach proof)	
9.	Sales Tax/Value Added Tax Registration Number (Attach proof)	
10.	Details of in-house testing facility (Attach Proof)	
11.	Office/ Dealer and Service network in Jharkhand with TIN No.(Give details)	
12.	Particulars of Earnest Money	
13.	Place where Materials will be Manufactured	
14.	Place where Materials will be Available for Inspection	
15.	Other details and remarks, if any	

Yours faithfully,

(Signature of Authorized Signatory)

Name :
 Designation :
 Company Seal :

NIT No:

I/We (here in after referred to as the Bidder) being desirous of tendering for the rate contract for work under the above mentioned tender and having fully understood the nature of the work and having carefully noted all the terms and conditions, specifications etc. as mentioned in the tender document, DO HEREBY DECLARE THAT

1. The Bidder is fully aware of all the requirements of the tender document and agrees with all provisions of the tender document.
2. The Bidder is capable of executing and completing the work as required in the tender.
3. The Bidder accepts all risks and responsibilities directly or indirectly connected with the performance of the tender.
4. The Bidder is financially solvent and sound to execute the work.
5. The information and the statements submitted with the tender are true.
6. The Bidder is familiar with all general and special laws, acts, ordinances, rules and regulations of the Municipal, District, State and Central Government that may affect the work, its performance or personnel employed therein.
7. The Bidder has not been debarred from similar type of work by any SNA/ Government Dept. /PSU.
8. This offer shall remain valid for Six months from the date of opening of the tender.
9. The Bidder gives the assurance to execute the tendered work as per specifications terms and conditions.
10. The Bidder confirms the capability to supply and install required no. of systems per month.

(Signature of Authorized Signatory)

Name :

Designation :

Company Seal :

NIT No:

POWER OF ATTORNEY

Know all men by these presents, we, do hereby constitute, appoint and authorize(Name & Address). who is presently employed with us and holding the position as our attorney, to do in our name and on our behalf, all such acts, deeds and things necessary in connection with or incidental to our bid

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

For

Authorized Signatory

Accepted by

Authorized Signatory

NIT No:

Commercial Terms & Condition

1. RATE:

The offer should indicate the unit cost, taxes & duties separately. The unit cost must be inclusive of packing, forwarding, loading & unloading charges, cost of insurance, transportation for delivery at destination and training to users, technical personnel and field functionaries.

2. SALES TAX & DUTIES ETC.:

All taxes and duties as prescribed both under central and state Government sales tax rules would be applicable.

3. EARNEST MONEY DEPOSIT (EMD):

Earnest money amounting to Rs/- (Rupees only) shall be deposited along with the tender without which the same shall not be accepted.

EMD will be refunded to the unsuccessful bidders after finalization of the tender without any interest.

The Earnest Money Deposit will be returned to the successful bidders after furnishing Security Deposit for performance and acceptance of the purchase order. The EMD can also be adjusted against Security Deposit on request by the successful bidder.

4. SECURITY DEPOSIT/ PERFORMANCE BANK GUARANTEE (PBG) FEES:

The successful bidder must deposit the Security amount / Performance Guarantee fees @ 5% of the ordered value at the time of acceptance of the work order in shape of Bank Guarantee.

5. DELIVERY:

The materials must be delivered within the stipulated time mentioned in the purchase order. The system should preferably be delivered to the consignee within six weeks of issue of purchase order.

6. CONSIGNEE:

Vananchal Gramin Bank, Head Office, Shiv Palace, Dangalpada. Dumka

7. VALIDITY OF OFFER:

The offer must be kept valid for a period of 180 days from the date of opening of the tender. No escalation clause would be accepted. The validity can be further extended with mutual consent.

8. Sales Tax Clearance Certificate (STCC):

The Bidders must submit attested copy of valid up to date Sales Tax / VAT clearance certificate along with the tender. The tender would not be considered without this document.

9. WARRANTY:

Solar Power Plant must be warranted against any manufacturing/design/ installation defects for a minimum period of 5 years.

PV modules used in solar power plants/ systems must be warranted for their output peak watt capacity, which should not be less than 90% at the end of 10 years and 80% at the end of 25 years.

10. LIQUIDATED DAMAGES:

The systems are to be supplied within the scheduled time. For delay in supply and installation of the system beyond the scheduled date the buyer shall without prejudice to its other remedies deduct from the order value as liquidated damage 1% of the delayed in commission the work per week of delay or part thereof up to maximum 10% of order value.

11. INSPECTION:

All tests and inspections shall be made at the place of delivery unless otherwise specifically agreed upon by the bidder and **Vananchal Gramin Bank** at the time of purchase if necessary.

12. PAYMENT TERMS:

70% of contract value will be disbursed after the delivery of all the materials for Solar Power System mentioned in the BOM.

30% of contract value will be disbursed after completion of successful commissioning.

13. TRAINING PROGRAMME:

The bidder as per the discretion of **Vananchal Gramin Bank** should conduct Training programme to users, technical personnel & field functionaries of **Vananchal Gramin Bank** at site so that they are well versant with day to day operations and basic maintenance activities.

14. DISPUTE:

For adjudication of any dispute between **Vananchal Gramin Bank** and the bidders arising in this case, reference can be made to any Law courts under the jurisdiction of Ranchi High Courts only.

15. Scope of work:

Supply installation & commissioning of Solar Power Generating System providing AC Power for running of Computers, Printers, Scanners, CFL's and Wall Fans, Air Condition along with 15 KVA Genset. Capacities of the solar power generating system will minimum 12 KWp.

16. After Sales Support: Training to the Bank for routine operation and maintenance of system for 5 years.

Technical Specifications of Solar Power Solutions

I. Solar PV Module:

Solar PV module array to be of high efficiency Solar Modules utilizing crystalline Silicon (Poly/Mono crystalline) Solar PV cells. SPV module shall be highly reliable, light weight and service life not less than 25 years. SPV module shall have limited power loss of not more than 10% of nominal output at the end of 10 years and of not more than 20% of nominal output at the end of 25 years. The rated output of any supplied module shall not vary more than 3 – 5% from the average power rating of all ratings. The yearly degradation should not be more than 1%. Individual Solar module rating should not be less than 250W_p @ STC. Each (60 or 72 cells)

Solar PV module offered should meet following Min. requirement.

- a) Efficiency of cell, Eff, c $\geq 16\%$,
- b) Efficiency of module, Eff, m $\geq 15.4\%$,
- c) Fill factor should be more than 72%,
- d) Temperature coefficient(P_{max}) should not be less than -0.45%/Deg C
- e) I – V curve of each SPV module with Sl. Nos. should be submitted along with Modules.
- f) Solar PV Modules shall conform to IEC 61215 Ed 2 with RFID on the module, UL 1703 and IEC61730 standards.

Following details to be provided:

- i. Maximum Power, P_{max}
- ii. Open Circuit Voltage, Voc
- iii. Short Circuit Current ,I_{sc}
- iv. Voltage at Max Power V_{mp}
- v. Current at Max power I_{mp}
- vi. Efficiency of cell,
- vii. Efficiency of module,
- viii. Temp. Coefficient of voltage, current and power

Solar PV Module should conform to following Mechanical requirements:

- (i) Toughened, low iron content, high transmissivity front glass.
- (ii) Anodized Aluminum Frame.
- (iii) Ethyl Vinyl Acetate (EVA) encapsulant.
- (iv) Silicon edge sealant around laminate.
- (v) Tedlar / Polyester trilaminate back surface.
- (vi) ABS plastic terminal box for the module output termination with gasket to prevent water moisture.
- (vii) Resistant to water, abrasion, hail impact, humidity & other environment factor for the worst situation at site.
- (viii) By pass diode.

Type of Solar PV Modules offered should have proven Performance Track record in Indian climatic conditions.

II. Module mounting structure / Array

(a) Structure shall be designed for simple mechanical and electrical installation. It shall support SPV modules at a given orientation, absorb and transfer the mechanical loads to the ground properly.

(b) The mounting structure should be hot dip galvanized. (Minimum 80 micron)

(c) The array structure shall be so designed that it will occupy minimum space without sacrificing the output from SPV panels & shall withstand heavy winds. Support structure design and foundation or fixation mounting arrangements should withstand minimum horizontal wind speed of 150 km/ hr

III. Array Junction Box:

- a) The junction boxes shall be dust vermin and water proof and made of FRP / Thermo Plastic with IP 65 protection (for outdoor) and IP 21 (for indoor) application.
- b) The junction boxes shall have suitable cable entry points fitted with cable glands of appropriate sizes for both incoming and outgoing cables.
- c) Suitable markings shall be provided on the bus bar for easy identification and cable ferrules shall be fitted at the cable termination points for identification.
- d) AJB shall have Type- II- SPD and a DC disconnect or MCB.
- e) AJB shall have provision for earthing.

IV. DC Distribution Box

- a) The junction boxes shall be dust vermin and water proof and made of FRP / Thermo Plastic with IP 65 protection (for outdoor) and IP 21 (for indoor) application.
- b) Battery connection shall have proper fuse rating along with disconnect
- c) Blocking diode should be there to prevent back feed
- d) DCDB shall have provision for earthing

V. AC Distribution Box

- a) The junction boxes shall be dust vermin and water proof and made of FRP / Thermo Plastic with IP 65 protection (for outdoor) and IP 21 (for indoor) application.
- b) ACDB shall have a 3 phase energy meter with suitably rated MCB and surge protection device.
- c) ACDB shall have provision for earthing

VI. Battery Bank:

The battery Bank of the solar system should be low maintenance lead Acid battery. The Performance Warranty of the Battery Bank should not be less than 05 Years.

Main features of the battery.

- a) The batteries shall be consists of 600 Ah @ 2V individual cells at C10 rate
- b) Polypropylene/Hard Rubber Container
- c) Terminals: Of lead alloy, suitable for bolted connection.
- d) Vent Plugs: Micro porous, ceramic for minimizing electrolyte loss.
- j) Valve: Flame arresting vent plug housing long life rubber safety valve
- k) Explosion proof, pressure regulating and safe at high temperature also.
- m) Recharge ability: very low charging rates as low as 0.05% of the normal charging current.
- n) High charging efficiencies: Ah efficiency; In excess of 90%.
- o) Low rate of self discharge: less than 3% per month at 27°C.
- p) Service life of minimum 5 years under normal operating conditions.

The Battery of reputed make (such as Exide/Southern) to be used shall be in the field along with a Solar PV system.

VI. Battery Rack: A suitable battery rack with acid resistance coating, Interconnections & end connector shall be provided to suitably house the batteries in the bank. Battery interconnecting links shall be provided for interconnecting in series and/or in parallel as needed. Connectors for inter cell connection (series/parallel) shall be maintenance free SS screws. Insulated terminal covers shall be provided.

VII. PCU (Power Conditioning Unit)

The power conditioning unit shall include charge controller, inverter and grid charger in one enclosure.

1.	Nominal DC Array Input Voltage Range	300-650 VDC
2.	MPP Voltage range	300-500 VDC
3.	DC input power capacity at least	15 KW
4.	Number of inputs	1/2
5.	MPP Tracker and Number	Single/Dual/MPPT
6.	DC disconnect switch	4 Pole 600 V 15 Amp
7.	Battery Type compatibility	Lead Acid Flooded/GEL or Lithium Ion
8.	Battery bank nominal voltage	240 VDC
9.	Charging Current	150 A dc, Programmable
10.	Charging Curve	3 stage adaptive
11.	Battery temperature compensation	Included
12.	Battery short circuit protection	Electronic with max. charging current, switch off < 1 sec
13.	Batteries voltage measurement	Integrated
14.	Current shunt	Integrated
15.	MPPT Efficiency	>99%
16.	Inverter Type	Bidirectional, Grid interactive
17.	Continuous Output Rating	15000W
18.	Output Wave Form	Sine Wave Output
19.	Total Harmonic Distortion	< 3%
20.	Output Voltage	400 V \pm 2%, 3 ph
21.	Output Frequency	50 Hz. \pm 0.5 Hz.
22.	Power Factor	0.9
23.	Inverter peak efficiency	At least 90% at full load
24.	Regulation	Line regulation & Load regulation – 2 %
25.	AC Battery Charger Capacity	Minimum 100 % of Solar Charge Controller Capacity
26.	AC Battery Charger Input Voltage	230V/400V AC
27.	Control Type	Microprocessor based Control.
28.	Operation mode	Grid interactive
29.	Topology	Galvanically isolated transformer
30.	Cooling	Controlled Air cooling
31.	Operating temperature	-10 to +50 deg C
32.	Relative Humidity	95% Maximum
33.	Indications	Inverter ON ; Grid ON ;Array ON ; Inverter under/over voltage; Inverter Overload ; Inverter Over Temperature ;Battery Low
34.	Electrical Protections	Input over voltage ; Low / high frequency; Short circuit; Input under voltage; Load surge current; Over Current; Under / over output voltage; Over Temperature ;Battery Low trip;

		Battery reverse polarity ; Blocking diode to prevent discharge of battery through solar array.
35.	Mechanical Protection Category	IP20
36.	User interface	Display with buttons
37.	Connectivity	Ethernet RJ45, TCP/IP
38.	Assembly & Mounting	As per normal industry practice.

VIII. Cables and accessories

All the cables shall be supplied conforming to IS 694 & shall be of 650 V /1 .1 kV grade as per requirement .Only PVC Copper cables shall be used. The size of the cables between array interconnections, array to junction boxes, junction boxes to PCU etc shall be so selected to keep the voltage drop and losses to the minimum. Suitable size of DC solar cable should be used for module to AJB and AJB to inverter. All installation accessories, which are required to install and successfully commission the power plant, are to be provided.

IX. Earthing and protection

The array structure of the System and all electrical equipments shall be grounded properly using adequate number of grounding kits conforming IS:3043. Individual earth pit should be given for DC,AC and LA. Chemical bond earthing with electrode shall be used.

X. Lightning Arrestor

It shall be used depending upon the area. Total PV array area shall be covered by LA.

XI. System Functioning

The main purpose for setting up this solar PV power plant is to reduce the burden on conventional sources. It, is therefore, prudent to provide grid interactive solar power system to generate electricity from sun to meet the electrical load requirement. The grid interactive system runs in parallel to the grid, supplements the electric energy generated from solar during sunny days thus save the conventional energy and the excess power will be fed into battery bank for storage. Conventional power will be available (Grid) for import only i.e. if energy demand is more than the supplied from PV and battery then only grid power will be taken. If there is excess power from PV (delivering the local load and charging the battery bank fully) then also the export to grid shall be disabled. So, no power injection to grid is allowable in any instance. At the time of grid outage, if battery is below set SOC level and PV is not sufficient, DG will be automatically start.

The power conditioning unit or PCU should have compatibility with Solar PV, AC grid, Battery bank and DG. It should have intelligent decision making algorithm for

- First preference to utilize the maximum PV power to cater the local load and then charge the battery bank.
- If PV power is not sufficient to deliver the load then it will take power from storage first and then to grid. This will be automatic process without any manual intervention.
- If PV is not available and battery bank is highly discharged then battery bank will be charged to a certain SOC level from the conventional grid power. This SOC level shall be programmable.
- If there is a grid outage, battery is low SOC level and PV is insufficient, DG will be started.
- Grid export shall be disabled all the time.

XII) Genset Specification:

Genset KVA rating	15
No. of Cylinder	2
Aspiration	Naturally Aspirated
Engine Rated Power(Continuous Rating ISO:3046)	24
Rated Speed	1500
Stroke	125
Bore(mm)	100
Displacement(mm)	1963
Compression Ratio	17.2:1
Reference Standard	BS 5514, ISO-3046
Type of Governor	Mechanical
Class of Governor(BS:5514)	A1
Air Cleaner	Dry
Type of Cooling	Air cooled
Lub oil system capacity(with filters)	8
Battery rating(V/AH)	12/100
Voltage(Volts)	440
Type	Brush less
Frequency(Hz)	50
No. of Phase	Three
Control Panel Display	Voltage, Current Frequency, Time Totalizer, IL's
Base frame AVM's(Nos)	4
Integrated Fuel Tank Capacity	250

XIII) SCOPE OF WORK FOR O&M (at extra cost):

The operation & maintenance of the plant will include the following activities.

- Attending the Emergency Breakdown of the components
- Quarterly testing of plant equipments by “Walk down” checks to internal condition of the equipments
- Logging of operation data and periodically processing it to determine abnormal or slowly deteriorating conditions.
- Control and Supervision of operating conditions
- Spare parts maintenance.
- Preventive Maintenance Schedules, Do’s and Dont’s, Trouble Shooting manual, charts codes and fault listings.
- Training of Personnel’s at client site.

BOQ:

Sl. No.	Item	Description	Make
1	SPV Module	300 Wp, 72 Cells Poly Crystalline , 40 Nos	MNRE approved manufacturer
2	Solar PCU with remote monitoring software& Data Logger	15kVA-3Ph	OPS/Statcon/Equivalent
3	AJB& DCDB	1X12 kW	IS Standard
4	ACDB with Energy Meter	15 kW	IS Standard
5	Cable		
6	Array to AJB		Mescab/Polycab/Havells
7	AJB to PCU		Mescab/Polycab/Havells
8	PCU to ACDB		Mescab/Polycab/Havells
9	DCDB to Battery		Mescab/Polycab/Havells
10	Lightning Arrestor	2 Nos.	IS Standard
11	Earthing Protection	5 Nos.	IS Standard
12	Installation	Incl. Civil materials	As per approved design & drawing
13	Mounting Structures	Minimum 80 Micron, Galvanized	IS Standard
14	Hardwares, Lugs and Clamps, MC4 Connector, ferrules		IS Standard
15	Diesel Generator	15 KVA-3 Phase	Kirloskar/Eicher/Jackson/Equivalent
16	Battery Bank Capacity	600Ah/240V LMLA Battery	Exide/Southern

Price Bid for Design, Manufacture, Testing, Supply, Installation & Commissioning of 12KWp Rooftop SPV Power Plants.

Price Schedule (BOQ)

Sl. No.	Description	Unit Price ; Inclusive of all taxes levis, entry Tax and other charges, if any, (Rs)
1.	12 kWp Solar power System complete with Solar module, mounting structure, battery bank 600Ah/240V with appropriate rack/stand, PCU and accessories, 15KVA Genset as per technical specifications furnished in technical offer. Supply installation & commissioning of Solar Power Generating System for running of Computers, Printers, Scanners, CFL's and Wall Fans.	
2.	Tax	
3.	Freight & Delivery Charges	
4.	Installation Charges	
5.	Transit insurance charges	
6.	Service Tax	
7.	Total Cost	

Operation and Maintenance charges from 2nd Year to 5th Year	
2nd Year	
3rd Year	
4th Year	
5th Year	
Total	
In Word	

(Signature of bidder with seal)

Name :

Designation :