

TECHNICAL SPECIFICATIONS

The scope of work includes design, supply, installation, commissioning of Solar Power Pack systems including 05 years comprehensive warranty maintenance at site in various districts of Uttar Pradesh as directed by UPNEDA on turnkey basis as per the following specifications.

The scope of work also include mandatory opening of Service Center in their name in concerned district through which servicing and maintenance should be provided as stipulated quarterly in a year and within 72 hours.

GENERAL TECHNICAL SPECIFICATION:

A Solar Power pack consist of Three white LED luminary (one 3 watt and two each 5 watt and 7 watt), one DC ceiling fan 20 Watt and a mobile charging plug point as per configuration along with solar PV modules and battery of given capacity, necessary control electronics-inter connecting wires / cables, module mounting structures etc.. The broad performance specifications of solar power pack systems are given below:-

BROAD PERFORMANCE PARAMETERS

PV Module	SPV module 200 Wp at STC. Module Voc minimum of 21V.
Battery	Lithium Ferro phosphate (LiFePO4 or LFP) 12.8 Volt, 80Ah
Light Source	White Light Emitting Diode (W-LED) battens 7 Watt, 5 Watt and 3 watt. Using LEDs which emits ultraviolet light will not be permitted
Light Out put	White colour (colour temperature should be in range of 5000°k to 6500°k).The illumination should be uniform, without dark bands or abrupt variations and soothing to the eyes.
Fan	12.8 Volt operated DC ceiling fan of power consumption should be 20 watt +5%

Make of Items must be as per the BIS/ MNRE Technical specification and equivalent make offered by the Bidders in the Bid. The Bidders may change the make of items with the permission of competent authority of UPNEDA as and when required on valid circumstantial conditions. The bidder shall provide Test Certificate of the proposed make of items issued from MNRE authorized testing center or NABL accredited test lab.

MINIMUM TECHNICAL REQUIREMENTS / STANDARDS

1. DUTY CYCLE

The Solar Power pack system (consist of Five nos. white LED luminary - one no. 3 watt and two nos. each 5 watt & 7 Watt, one DC ceiling fan 20 Watt and a socket of 25 watt with a provision of mobile charging) should be designed to operate for minimum 6-7 hrs daily with autonomy of 2 days.

2. SPV MODULES:

- i. (100 watt X 2 nos modules) = 200 watts modules or a bidder can use both options of panels either 2 panels of 100 watt each or 1 panel of 200 watt in 36/72 cells of IEC tested shall only be used in the project. Crystalline high power/efficiency (not less than 16%) cells shall be used in the solar photovoltaic module. The power output of the module shall not be less than 200 Wp at load voltage 18 volt. The module efficiency should not be less than 14%. A copy of test report at STC with I-V curve of solar module used in test certificate issued by NABL/ MNRE accredited lab should be enclosed
- ii. The open circuit voltage of the PV modules under STC should be at least 21 Volts.
- iii. PV module must be warranted for output wattage, which should not be less than 90% at the end of 10 years and 80% at the end of 25 years.
- iv. The terminal box on the module shall be designed for long life out door operation in harsh environment should have a provision for opening for replacing the cable, if required.
- v. The offered module shall be in accordance with the requirements of MNRE standards and tested as per:
 - a) As per IEC 61215 / IS 14286 for Crystalline Silicon Terrestrial Photovoltaic (PV module - Design Qualification and Type Approval
 - b) As per IEC 61730 Part 1- requirements for construction & Part 2 – requirements for testing, for safety qualification.
- vi. Protective devices against surges at the PV module shall be provided. Low voltage drop bypass diodes shall be provided and if required, blocking diode(s) may also be provided.
- vi. **IDENTIFICATION AND TRACEABILITY**

Each PV module must use a identification tag which must contain the following information:

- (i) Name of the manufacturer with logo
- (ii) Month and year of the manufacture
- (iii) Peak Wattage, Im, Vm and FF for the module
- (iv) Unique Serial No
- (v) Model No of the module with voltage and rated wattage
- (vi) Made in India

vii. The PV Modules should be complied with the prevailing MNRE Approved List of Models and Manufacturers of Solar Photovoltaic Modules and subsequent amendments and clarifications issued, shall be applicable for this Bid.

2. **Lithium-Ferro-Phosphate (Li-Fe-Po4) Battery:**

The battery should Lithium Ferro phosphate (Lifepo4) having capacity minimum 12.8 Volt, 80 Ah at standard conditions. The configuration of battery assembly should be 4s4p. The cell should be preferably prismatic type having capacity not less than 20Ah. The other feature of the battery should be:

Sr No.	Description	Specification
1	Battery Configuration	12.8V- 80AH; LiFePO4
2	Working Temperature Range (both for charging & discharging)	20-60 Deg C
3	Storage Temperature Range	@ 0-25 Deg- 6 months
4	Cycle Life (Full charge to full discharge @ 25 deg C before capacity of battery falls below 75%)	more than 2000 Cycles
5	Battery Warranty	5 years
6	Capacity of Individual Cells	3.2V- 20 AH (minimum)
7	Type of Cell	Prismatic or cylindrical
8	Nominal Capacity	80AH
9	Nominal Voltage	12.8V
10	Voltage Range	10.0V to 14.0 V
11	Total Energy	1024 WHr
12	Configuration	As per Cell capacity
13	Rated Charging current	20 Amps
14	Maximum Charging current	30 Amps
15	Maximum Discharging Current	30 Amps
16	Discharge Cut off Voltage	10.2V
17	Charging Time	Around 4-4.5 hours

The cell and battery should be got tested as per IEC62133-2012 or BIS specifications with MNRE/NABAL accredited center.

CHARGE CONTROLLER:

- i) MPPT charge controller to maximize energy drawn from the Solar PV array. The MPPT charger should be microcontroller based. The charge controller should have:

Sr No.	Description	Specification
1	Charge controller Type	MPPT- Maximum Power Point Tracking
2	Charge Controller Rating @ Rated Voltage	20 Amps
3	Module Rating	200 Wp with positive tolerance Voc- approx.. 22 Volts Vmp- approx.. 18 Volts
4	Load current Max @ rated Voltage	7 Amps
5	Ideal current consumption (self consumption)	< 30 mAmps
6	Maximum Efficiency	>90%
7	Battery Voltage Setting	Charging- 14V +/- 0.20 Volts Battery Low load disconnect- 10.2V Volts Load Reconnect- 12.60V +/- 0.20 Volts Default setting shall be solar charging
9	Type of prefab connectors to be provided	1 no.-USB Port-5 Amps (max.) 1 no.-DC TV connector (both male & Female)- 3 Amps DC (Max.) 5 nos - LED light connector (DC) 1 no.- 20W DC Fan connector
10	Load Master MCB	1no.-10 Amps DC MCB
11	Type of Display	LCD
12	LED indication with LCD display	LED- Green with Slow blinking -Charging under Process- Yellow- Battery Low Red- System Fault
13	Protection	Over Charge/Deep Discharge Over Load- Auto Shutdown and restart When load over current happened @7 amps, load should be off for 2 minutes after 5 times, the frequency of
		reconnect should be after 30 minutes provided the battery voltage is in operating zone. Solar & Battery reverse protection

14	Display parameter (AlphaNumeric)	No Load Auto Cut off (Battery Saver mode)
		Fuse protection of Mains
		Input surge protection should 1.5kv
		Reverse current from battery at night
		PV Voltage
		PV Current (charging)
		Battery Voltage
		Battery Current (Load)
		Faults - with details
		Battery back-up shows in percentage

Full Protection against polarity reversal of PV array and battery, Over Current, Short Circuit, Deep Discharge, Input Surge Voltage , open circuit, accidental short circuit and night time leakage of current from battery to module.

Adequate protection shall also be incorporated under no-load conditions (i.e. when the system is ON & the load is removed).

The Lithium iron phosphate battery needs a very good “Battery Management Systems” BMS to ensure the proper charging and discharging of each cell of battery with proper protection of battery when temperature is reaching beyond battery permissible limits. This battery also needs constant current and constant voltage charging methodology related to upper voltage limit of batter. BMS primary focus are therefore on the safety and the protection of the battery, to minimise the risk of sudden failure and to maximise the life cycle of the battery. The secondary function of the BMS is to perform battery diagnostics, such as state of charge (SOC) estimation, state of health (SOH) estimation and state of power (SOP) estimation. Hence a very good battery management system to be incorporated and got it tested with battery from MNRE/NABAL/IEC accredited lab as per IEC/BIS standard. IEC 62133 , IEC 61960 & UL 1642 : SAFETY OF LIFEPO4 BATTERY

Housing of Battery and Charge controller:

Charge controller and Battery shall be housed in Polymer body enclosure or sheet metal box housing with suitable segregation of battery and Electronics
The LCD display shall be on front side (middle) of the electronic section
The enclosure shall be powder coated, double colour, please to eye paint shade
The enclosure shall be wall mounted with top side used for all the external connections

4. Light Source:

- i. The light source will be of white LED type Mid Flux white LEDs .The color temperature of white LEDs used in the system should be in the range of 5000°k to 6500°k +-500K. Use of LEDs which emits ultraviolet light will not be permitted.
- ii. The illumination should be uniform without dark bands or abrupt variations, and soothing to the eye. Higher light output will be preferred. The light output from the white LED light source should be almost constant and free from the glare.
- iii. The lamps should be housed in an assembly suitable for indoor use and shall comply to IP40. The temperature of heat sink should not increase more than 20 degree C above ambient temperature even after 48 hrs of continuous operation. Heat Sink Material used in the LED batten should be of Extruded Aluminum as body and good heat sink in order to have good heat dissipation and thermal management for ensuring the better life of the luminaries with high quality of Polycarbonate diffuser for achieving soft and glare free light. The diffuser efficiency should not be less than 85% .(Annexure III-g)
- iv. Mid power white LED having LM 80 test report) shall only be use..
- v. The driving current and voltage should be as per characteristics of LED selected to ensure its 50000 hrs life.
- vi. The LEDs luminaire should have life time about 50,000 hrs as per IESNA latest standard.
- vii. The lumen depreciation of LED luminaire shall not be more than 30% at 50,000 burning hours as per IESNA latest edition.
- viii. Power consumption of the LED Luminaire / Lighting unit shall Nominal 5 Watt, Nominal 7watt and Nominal 3 watt.
watt (including LED Driver power loss) with permissible standard tolerance of 3%.
- x. Other Parameters :
Input Voltage– 12 V DC
Driver Type- DC-DC (as per IEC 62384) CRI - Typical 75 % and not less than 70
Lighting quality- Free from glare,flickering and UV Ambient temp– upto 50 deg
Total driver efficiency > =90 %
The LED and driver should be mounted on the same PCB.
- xi. Driver Characteristics - reverse polarity protection and suitable to operate between 10V to 14V.
- xii. Auto resettable reverse polarity and short circuit protection shall be provided.
- xiii. The Luminary should be designed and manufactured by the reputed Indian brand and tested as per LM- 79-08 or latest standard by the MNRE/NABL accredited lab for such Standards and copy of such test certificate should be submitted. The test report should have the Polar curve of luminaire.
- ix. The luminaire should be wall mounted and placed at the center of the wall and 2.5 m above the ground. The all calculation for lux distribution and uniformity should be calculated with room size 2.5M*2.7M*3M (H) for 5watt and 1.5M*1.8M*3M (H) for 3watt and 2.5M*3M*3M (H) for 7watt.
 - iv. The lumens output of luminaire should be typical 500 lumens for 5 watt and typical 300 lumens for 3 watt lamp and 700 lumens for 7 watt with permissible standard tolerance. The average lux level at floor level should be 12 lux for 7 watt , 9 lux for 5 watt and 5 lux for 3 watt (Reflectance Factor

- Floor-20, ceiling-50 and walls-40). The uniformity of light u_0 should be more than 0.7 and E_{min}/E_{max} ratio should be more than 0.6 at this level. The design calculation based on LM 79 test data should be submitted to confirm these parameters. The make, model number, country of origin and technical characteristics of white LEDs used in the lighting system must be furnished.
- xiv. The beam angle of luminaire shall be min 100 deg and the distribution shall be symmetrical on either side of axis.
- xv. The luminaires have to be mounted on the wall only and the light must be distributed.
- xvi. Luminaries should have embossing/screen printing of manufacturer and be manufactured in India.
- xvii.** The LED lights should comply the latest BIS specification (IS 10322 (Part 5/Sec I):2012 Certificate from BIS is required for its compliance for respective manufacturer and should be submitted

xviii. In case it is not possible to fix the Luminaire on wall, it should be installed suitably as per condition and requirement of house.

Ceiling Fan: The fan should be 12 volt DC operated with following minimum requirement:

- i. Type of motor: BLDC
- ii. Rated voltage: 12 Volt
- iii. Operating Voltage range: 9 Volt to 18 volt
- iv. Blade diameter : 1200 mm
- v. Blade: Three leaves Aluminium Powder Coated
- vi. Power: 20 Watt (+ 5% including instrumental errors)
- vii. Air delivery: > 150 CMM (cubic meter per minute)
- viii. RPM: >300
- ix. Bearings : Two nos. ball bearings
- ix. Speed : 3 Electronically controlled
- x. The fan should start gradually in 0-20sec, it should not start instantly with micro electronic controller
- xi. Reverse polarity protection: fan should not work with reverse polarity.
- xii. The motor should be tested for its insulation test, temperature rise test, reliability test

SR No.	Description	Test Requirements	Acceptance Criteria
1	Operating voltage range	Range from 9 V to 15 V and 15 to 9 V.	The test sample must be fully functional during and after the test. There should not be any crack , fire , deformation during after the test.
2	Power supply reverse polarity Connection test	Fan Should not work with reverse polarity connection	The test sample must be fully functional after the test. There should not be any crack , fire , deformation during after the test.
3	Short circuit protection	If short circuit is detected more than 200ms. Fan will turn off automatically.	The test sample must be fully functional after the test. There should not be any crack , fire , deformation during after the test.
4	Insulation Resistance Test	500 V DC with Megger between ground & housing for 60sec	Before test:- more than 10 Mohms After Test :- more than 1 Mohms
5	Temperature rise limits	Temperature should be measures by thermocouple of following parts after fan running 4 HRS at rated supply Voltage 1) Stator Winding 2) Bearing (Both side) 3) Electronic Circuit Components	115 °C Maximum 90 °C Maximum 100 °C Maximum
6	Reliability Test	1) High -Temperature test	1) Motor in 85 °C ambient for 96 hours without applying voltage 2) Motor in normal ambient for 24 hours 3) Test the insulation resistance should be more than 10MΩ
		2) Low -Temperature test	1) Motor in -30 °C ambient for 96 hours applying voltage 2) Removing the water drops on the motors surface, put motor in normal ambient for 24 hours 3) Test the insulation resistance should be more than 10MΩ
		3) High - humidity operation test	1) Motor in the environment of 40 ± 5°C and 90-95% RH for 96 hours with the rated load 2) Motor in the environment of normal temperature and humidity for 24 hours 3) Test the insulation resistance should be more than 10MΩ
		4) Thermal Cycle Test 85 °C 2hrs & -40 °C for 2 hrs, transfer time from hot chamber to cold chamber should not be more than 30 Second. Test should perform for 5 cycles	Performance within design Specification. No breakage, deformation observed
7	Temperature Rise	Temperature of winding should be measured after fan running for 4 hrs on 12 VDC & 25 °C Ambient	Temperature rise should not be more than 65 °C
8	Noise Test	At the distance 1.0 Mtr from the fan	27 dB Max.

Technical Requirement/Standards

Item / System	Applicable BIS /Equivalent IEC Standard Or MNRE Specifications	
	Standard Description	Standard Number
Solar PV Systems	Crystalline Terrestrial PV Modules	IEC 61215 / IS14286 Test Certificates / Reports from IECQ / NABL accredited laboratory for relevant IEC / equivalent BIS standard. If IEC certificates are not available for 120 Wp capacity, qualification certificate from IEC / NABL accredited laboratory as per relevant standard for any of the higher wattage regular module shall be furnished. Further, the manufacturer should certify that the supplied module is also manufactured using same material design and process similar to that of certified PV Module IEC IEC 62093 Equivalent BIS Std.
Units and Protections		
Storage Batteries	General Requirements & Methods of Testing Lifepo4 Capacity Test Charge/Discharge Efficiency Self-Discharge	IEC
Cables	General Testand	IEC 60189

	Measuring Method	
	PVC insulated cables for	IS 694/ IS 1554
	working voltage up to and including 1100 V	
	UV resistant for outdoor installation	IS/IEC 69947
Junction Boxes /Enclosures for Charge Controllers/	General Requirements	IEC 62208
		IP21
Luminaries		IP 40
LED	LED	LM -80-08
	Luminary	LM 79-08
	Driver performance	IEC 62384

MECHANICAL HARDWARE

(i) A metallic frame structure made of hot dip galvanized (not less than 80 micron) angle of 35*35*4 mm shall be fixed on the roof or on pole/structure. In case of pole, the pole should be hot dip galvanized (120 microns) GI pipe of 3 mm thickness with min nominal diameter 65 mm diameter of 4 meter length The frame structure should be fixed firmly at 30 degree from horizontal facing true south for entire life of the system.

(ii) BATTERY BOX :

A Polymer body enclosure for housing the storage battery indoors should be provided with proper lock and key. The boxes should be inscribed with UPNEDA written on front faces. The size of box should be as per battery size. The battery should be fixed inside the battery box so it should be properly separated to avoid the electrical contract between battery and box. Danger logo as approved by UPNEDA shall be screen printed on the box. The Box should have separate compartment for BMS with IP65. The box should be mounted inside room on wall above 2 meter height from ground level. In case it is not possible to install on wall in that case it should be kept properly at safe place inside the room.

ELECTRIC CABLE

All the cables shall be supplied conforming to IEC 60227– IS 694 / IS 1554 – IS / IEC 60502 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 to CCU, CCU to LED luminaries, and fan etc shall be so selected to keep the voltage drop and losses to the minimum. Permissible Wire Drop shall be $\leq 1\%$. The DC cable from the SPV module, shall be run through a PVC conduit pipes, which in turn shall be firmly fixed to the wall with clamps.

The DC cable from the CCU to Battery will be laid through a rigid PVC conduit.

- Separate wiring in external conduit pipes along with separate switch boards, switches for each LED lamp should be provided.
- Rigid PVC Conduit of nominal diameter as per IS standard (IS: 9537)-medium class.
- Clamps shall be provided at 1 meter spacing to secure the conduits
- Ensure color Coding of all wiring as follows

DC (Positive) =Red DC (Negative)=Black Earth = green

- DC cable from panel to CCU, CCU-Battery and internal wiring from CCU to three LED lights and fans should be as per requirement of site/house. Minimum Specification for cable /wires used:
- Solar panels to CCU incomers DC 2 core multi strand 4 sq.mm copper cables.
- From Battery to DC incomer of CCU: DC 2 core multi strand 2.5 sq.mm copper cables.
- DC out going from CCU: 2.5 sq.mm multi strand copper wire.(separate wiring for each light and fan)
- All earth wires- 2.5 sq.mm multi strand copper wire.
- Suitable Glands shall be provided at all cable entries of the cabinet
- Provide DC fuse between the battery plus terminal and the CCU at a location as close as possible to the battery plus terminals.
- Miniature Circuit Breaker (MCB)- $> 4A$, 2 Pole - 12V DC
- Holders – The switches should of minimum 5 ampere DC rating. The switch of Fan should be 10AmpDC rating. The entire electrical component should be as per BIS standard/mark.

5. OTHER FEATURES

A toll free number (i.e. 1800 180 0005) of IVRS of UPNEDA and 14 digit UID number of minimum computer font size 72 or 13 mm (issued/provided by UPNEDA) is to be embossed/ punch on battery box by contractor/ bidder, which in case of non-working/ operational problems etc of system will be dialed by the beneficiary etc to lodge a complaint in respect of system problems. The IVRS will divert the complaint to Contractor/ bidder through E mail, SMS etc. The contractor/ bidder will have to rectify the same to make/ restore the system to working position within 72 hours in the warrantee period of 5 years, failing which the system may be get rectified on contractor/ bidder cost and the cost will be recovered by contractor/ bidders pending claims what so ever and appropriate action as per non compliance etc of agreement will be considered/taken.

6. INSTALLATION OF SYSTEM:

The system should be properly installed at site. The SPV module mounting structure along with pole should be properly grouted depending upon the location and requirement of the site. The grouting should be such that it must withstand the maximum wind speed /storm. The pole should be grouted with CC mixture of 1:2:4 of dia 300 mm having depth of 1000 mm and 200 mm above ground level with 200 mm dia. The successful Bidder provides the foundation drawing. Adequate space should be provided behind the PV module/array for allowing unobstructed air flow for passive cooling. Cables of appropriate size should be used to keep electrical losses to a bare minimum. All wiring should be in a proper conduit or capping case. Wire should not be hanging loose. Any minor items which are not specifically included in the scope of supply but required for proper installation and efficient operation of the SPV systems, is to be provided by the manufacturer as per standards.

EARTHING

The PV module structure and all metal casing / shielding shall be grounded properly using suitable earthing kits to safe guard it from lightening.

8. WARRANTY

The mechanical structures, electrical works including power conditioners/inverters/charge controllers/ maximum power point tracker units/distribution boards/digital meters/ switchgear/ storage batteries, etc. and overall workmanship of the Solar power packs/ systems must be warranted against any manufacturing/ design/ installation defects for a minimum period of 5 years.

9. TRACEABILITY OF THE PRODUCT TO BE SUPPLIED

In order to prevent the misuse of the product such as unauthorized sale or diversion to the open market, the following incorporation shall be made in the product.

- a) Engraving (or) Screen printing of UPNEDA at a suitable place on the main components viz., SPV Panel, LED Lighting Units to be used in the installation of the solar Power Pack systems.
- b) The system unique ID number as provided by UPNEDA shall be permanently embossed / punch or a metallic strip nut-bolted / riveted to or directly embossed/punch on pole of the system. The UID number painting or marking will not be allowed.
- c) Sign board as prescribed by UPNEDA should be fixed on pole.

संख्या 4625 / यूपीनेडा-ऑनग्रिड-ऑफग्रिड-नये प्रस्ताव / 2024-2025
उ0प्र0 नवीन एवं नवीकरणीय ऊर्जा विकास अभिकरण,
विभूति खण्ड, गोमती नगर, लखनऊ।
दिनांक : 10, नवम्बर, 2025

समस्त वरिष्ठ परियोजना अधिकारी/
परियोजना अधिकारी/परियोजना प्रभारी,
यूपीनेडा।

राजस्व विभाग, वित्त मंत्रालय, भारत सरकार के गजट NOTIFICATION NO-9/2025-Central Tax (Rate) New Dehli, the 17th September, 2025 एवं राज्य कर अनुभाग-2, उत्तर प्रदेश शासन के नोटिफिकेशन संख्या NO-1699/XI-9(47)/17-t.c.-284-U.P.Act-1-2017-order-(362)-2025 Lucknow dated: 20 September, 2025 के अनुसार केन्द्रीय वस्तु एवं सेवाकर अधिनियम, 2017 के सेक्शन 9 के सब सेक्शन (1) एवं सेक्शन 15 के सब सेक्शन (5) में प्रदत्त शक्तियों का प्रयोग कर नोटिफिकेशन के अन्तर्गत "Schedule 1-2.5%" शीर्षक सारणी पृष्ठ संख्या 19 के क्रमांक 437 के अन्तर्गत सौर ऊर्जा उपकरणों पर 2.5% जीएसटी चार्ज करने की व्यवस्था निर्धारित की गयी है।

उक्त के क्रम में दिनांक-22.09.2025 एवं इसके पश्चात नवीन जीएसटी दर के अनुसार सरकारी/अर्द्धसरकारी भवनों के सोलराइजेशन हेतु ऑनग्रिड रूफटॉप सोलर पावर प्लांट, ऑफग्रिड सोलर पावर प्लांट, एवं सोलर पावर पैक संयंत्रों की आपूर्ति, स्थापना, कमिशनिंग एवं 05 वर्षों के रख-रखाव सहित अभिकरण की अनुबन्धित फर्मों द्वारा प्रस्तुत किये जाने वाले इन्वॉइस/बिल उपरोक्त नोटिफिकेशन में वर्णित नवीन जीएसटी की दरों (केन्द्र एवं राज्य के जीएसटी अंश सहित 5%) के आधार पर ही प्रस्तुत किया जायेगा।

उल्लेखनीय है कि योजनान्तर्गत पूर्व में निर्धारित दरों (जीएसटी सहित) में आवश्यक संशोधन करते हुए सक्षम स्तर से प्राप्त अनुमोदन के क्रम में नवीन प्रभावी दरें निम्नानुसार निर्धारित की जाती हैं:-

1-ON-Grid Rooftop Solar Power Plant Rate									
Sr. No.	Category	Discovered Price including GST (Rs. Per Kw)	Base Price (Rs. Per Kw)	GST 5% on 70% of Base Price (Rs. Per Kw)	GST 18% on 30% of Base Price (Rs. Per Kw)	Total GST (Rs. Per Kw)	Total Billing Rate (Rs. Per Kw)	UPNEDA Contingent Charges (@3% of Base Price & 18% gst on it) (Rs. Per Kw)	Total Cost of the system including all taxes, gst & contingent charges (Rs. Per Kw)
1	2	3	4	5	6	7	8	9	10
1	01-10kW	55000	48330.40	1691.56	2609.84	4301.41	52632.00	1711	54343.00
2	11-100kW	52400	46045.69	1611.60	2486.47	4098.07	50144.00	1630	51774.00
3	101-500kW	42500	37346.22	1307.12	2016.70	3323.81	40670.00	1322	41992.00

2-OFF-Grid Solar Power Plant Rate									
Sr. No.	Category	Discovered Price including GST (Rs. Per Kw)	Base Price (Rs. Per Kw)	GST 5% on 70% of Base Price (Rs. Per Kw)	GST 18% on 30% of Base Price (Rs. Per Kw)	Total GST (Rs. Per Kw)	Total Billing Rate (Rs. Per Kw)	UPNEDA Contingent Charges (@3% of Base Price & 18% gst on it) (Rs. Per Kw)	Total Cost of the system including all taxes, gst & contingent charges (Rs. Per Kw)
1	2	3	4	5	6	7	8	9	10
1	01-10kW	106000	93145.87	3260.11	5029.88	8289.98	101436.00	3297	104733.00
2	11-50kW	99000	86994.73	3044.82	4697.72	7742.53	94737.00	3080	97817.00
3	51-75kW	97000	85237.26	2983.30	4602.81	7586.12	92823.00	3017	95840.00



3-Solar Power Pack

Sr. No.	Discovered Price including GST (Rs.)	Base Price (Rs.)	GST 12% on 70% of Base Price (Rs.)	GST 18% on 30% of Base Price (Rs.)	Total GST (Rs.)	Total Billing Rate (Rs)	UPNEDA Contingent Charges (@3% of Base Price & 18% gst on it) (Rs. Per Kw)	Total Cost of the system including all taxes, gst & contingent charges (Rs. Per Kw)
1	2	3	4	5	6	7	8	9
1	34250	30096.66	1053.38	1625.22	2678.60	32775.00	1065	33840.00

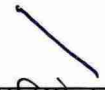
उपरोक्त के क्रम में निर्देशित किया जाता है कि ऑनग्रिड रूफटॉप सोलर पावर प्लांट, ऑफग्रिड सोलर पावर प्लांट, एवं सोलर पावर पैक योजनान्तर्गत दिनांक-22.09.2025 एवं इसके पश्चात संबंधित फर्मों से उपरोक्तानुसार नवीन जीएसटी के आधार पर ही इन्वॉयस/बिल प्राप्त किया जायेगा।

भवदीय,


(अजय कुमार-2)

वरिष्ठ परियोजना अधिकारी-2
यूपीनेडा।

- प्रतिलिपि:-1. समस्त सम्बन्धित फर्मों को इस निर्देश के साथ कि दिनांक-22.09.2025 एवं इसके पश्चात नवीन जीएसटी दरों के आधार पर ही इन्वॉयस/बिल निर्गत करना सुनिश्चित करें।
2. वित्त एवं लेखाधिकारी, यूपीनेडा को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।


वरिष्ठ परियोजना अधिकारी-2
यूपीनेडा।

SOLAR POWER PACK FIRMS DETAIL (2025-26)

S.N.	Name of the Firm	Firm Address	Rate per System with GST	Mail-ID	Mobile No.
1	CSA Corporation Pvt. Ltd.	Plot No.-250, First Floor, Okhla Industrial Estate, Phase-III, New Delhi-110020	32,775/-	csacorporation@outlook.com	9873445562
2	ITI Ltd. Naini	Mirzapur road, Naini Prayagraj-211010		atul_nni@itiltld.co.in	6307182604
3	KLK Ventures Pvt. Ltd.	1517, Hemkunt Chambers 89, Nehru Place, New Delhi-110019		director.klk@gmail.com	9625940034
4	Patanjali Renewable Energy Pvt. Ltd.	D-83, 84 & 85 EPIP, UPSIDC Site V, Kasna, Grater Noida-201320		info@patanjali renewable.com	9760099518
5	Lord's Mark Industries Pvt. Ltd	B-101 Riddhi Siddhi Complex, M.G. Road, Borivali (E), Mumbai-400066		lordsmarksales@gmail.com	8765440315
6	Sunrover Pvt. Ltd.	GF-1, Shree Mahakali Apartment, 97 Stanley Road, Prayagraj-211002		info@sunrover.in	8756681373
7	E-Sharp Solar Solution Pvt. Ltd.	F-65, 3rd Floor, Radhey Puri Delhi-110051		esharpsolar@gmail.com	8853498948
8	Servotech Renewable Power System Ltd.	806, 8th Floor, Crown Heights, Hotel Crown Plaza, Sector-10, Rohini, New Delhi-110085		sarika78@servotechindia.com	9818680033
9	Jay Ambey Suppliers	375/12B, Janki Nagar Coloney, Bahraich Road-Gonda-271003		jayambeysuppliers98@gmail.com	9169276729