



ceNdor industry

Recognized By: **startupindia**

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Azadi Ka
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CENTILLIONAIRES ARDOR INDUSTRY PVT.LTD.

GREEN ENERGY SOLUTIONS

(LET'S COME TOGETHER TO SAVE THE ENVIRONMENT)



CONNECT:

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WE CARE ABOUT MOTHER EARTH AND YOUR POCKETS!



Solar Catalogue

ceNdor industry solar system

A comprehensive range of solar modules, charge controllers, solar panels, solar inverter, solar batteries, solar products, solar lights, telecommunications, solar water heating system, power supply and complete solar system installation.



HARNESSING THE POWER OF THE SUN



ceNdor industry

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ceNdor industry

solar systems



SOLAR MODULES

MODULES UTILISING HALF CUT MONOCRYSTALLINE, POLYCRYSTALLINE, MONOCRYSTALLINE AND MULTICRYSTALLINE TECHNOLOGIES, FROM 10W TO 415WP.

CHARGE CONTROLLERS

UNITS RANGING IN SIZE FROM 6A TO 960A FOR 12V, 24V AND 48V APPLICATIONS.

SUNPOWER6, 10, 30, 60, 90
SPCC10, 10E, 16E
SOLAR CONTROL CENTRE (SCC).

SOLAR BATTERIES

GELLED, WET AND TUBULAR PLATE BATTERIES RANGING FROM 20AH TO 15600AH.

LITHIUM BATTERIES

LITHIUM BATTERY 6 AH - 500 AH

SOLAR LIGHTS

LIGHTS FOR INDOOR, OUTDOOR AND STREET LIGHTING APPLICATIONS, FOR 12V, 24V AND 48V DC INPUT.

SOLAR CEILING LIGHT
GARDEN LIGHTS
ECOLITE STREET LIGHT
OUT DOOR LIGHT
SOX STREET LIGHT , PL STREET LIGHT
LED STREET LIGHT
GLOWSTAR STREET LIGHT

STREET LIGHTING

COMPLETE SELF CONTAINED SYSTEM WITH COLUMN, LANTERN, BATTERY, MODULE AND CONTROLLER.

SOLAR LANTERN

LED PORTABLE SOLAR LIGHT.

SOLAR LIGHTING KIT

COMPLETE READY-TO-USE KIT FOR INDOOR AND OUTDOOR DOMESTIC LIGHTING.

SOLAR WATER PUMPING

SPECIALLY DESIGNED FOR WATER SUPPLY AND IRRIGATION IN REMOTE AREAS WHERE NO RELIABLE ELECTRICITY SUPPLY IS AVAILABLE.

SOLAR SYSTEMS INSTALLATIONS

SMALL, MEDIUM AND LARGE SCALE COMPLETE SYSTEMS TO PROVIDE ENERGY FOR DOMESTIC AND COMMERCIAL APPLICATIONS.

SOLAR TELECOM

COMPLETE CUSTOMISED SOLAR SYSTEMS FOR TELECOMMUNICATION INSTALLATIONS IN REMOTE AREAS.

SOLAR COOLER

SIMPLE SOLAR COOLER, SOLAR AIR COOLER, SOLAR DESERT AIR COOLER, SOLAR TABLETOP AIR COOLER, SOLAR TABLETOP AIR COOLER

SOLAR AIR CONDITIONER

SOLAR AC (HYBRID MODEL)
SOLAR AC (AC/DC MODEL)
SOLAR AC (ONLY DC MODEL)

SOLAR WATER HEATING SYSTEM

EVACUATED TUBE COLLECTORS (ETC)
FLAT PLATE COLLECTORS (FPC)

★ ALL TYPES OF ROOF SOLAR SYSTEM IN, COLLEGES, VILLAS OR LUXURY VILLAS, RESTAURANTS OR HOTEL, AIRPORTS OR BUS STANDS, RESORT SCHOOL, COLLEGES, MANUFACTURING INDUSTRY, PETROL PUMP MALLS, HOSPITAL, FACTORY, HOME SOLAR POWER POINT

ELECTRIC VEHICLE

ELECTRIC SCOOTY
ELECTRIC BIKE
ELECTRIC RICKSHAW
ELECTRIC CAR

UPCOMING EV CHARGING POINT FOR ELECTRIC VEHICLES IN INDIA.

UPCOMING E WASTE MANGMENT



UPCOMING GLOBAL PLAYER IN GREEN ENERGY, ceNdor DESIGNS YOUR SOLAR STATION (UNDER OPEX MODEL—OUR CORE AREA) FOR ELECTRICITY IN YOUR PLACE AND SUPPORTS A WIDE VARIETY OF SOLAR RELATED PRODUCTS AND SOLAR SYSTEM.

SUPPORTING MAKE IN INDIA AND STARTUP INDIA USING RENEWABLE ENERGY TO SAVE THE ENVIRONMENT & MINIMIZE THE ELECTRICITY BILLS BY DELIVERING THE POWER DIRECTLY FROM SUN.

IN THE ERA OF NATURAL DISASTER, SOLAR ENERGY SOURCE ARE THE POWER SOURCE AUTHORITY THAT CAN REPAIR AND DEPLOY THE QUICKEST.

ceNdor INDUSTRY IS ISO 9001:2015 QUALITY MANAGEMENT SYSTEMS STANDARD, & ISO 14001:2015 ENVIRONMENT MANAGEMENT SYSTEM IAF CERTIFIED LEADING COMPANY WHICH IS STARTED BY SOLE MISSION OF PROVIDING GREEN ENERGY SOLUTIONS.

ceNdor INDUSTRY IS NOW APPROVED ON GEM (GOVERNMENT E-MARKETPLACE).

GEM REGISTRATION HAS KEY FEATURES ARE GIVEN BELOW:

- **QUICK PAYMENT • HIGHLY SECURE • PRICE COMPARISON • END-TO-END SYSTEM**
- **COMPLETE AUDIT TRAIL • CALL SUPPORT SYSTEM • REGISTRATION AUTHENTICATION**
- **MULTIPLE PAYMENT OPTIONS**

ceNdor INDUSTRY IS REGISTERED UNDER MSME .

MSME IS TO SUPPORT STARTUPS WITH SUBSIDIES AND BENEFITS.

MSMEs PROMOTE INCLUSIVE GROWTH BY PROVIDING EMPLOYMENT OPPORTUNITIES IN RURAL AREAS ESPECIALLY TO PEOPLE BELONGING TO WEAKER SECTIONS OF THE SOCIETY. FOR EXAMPLE: KHADI AND VILLAGE INDUSTRIES REQUIRE LOW PER CAPITA INVESTMENT AND EMPLOYS A LARGE NUMBER OF WOMEN IN RURAL AREAS.

AMAZON WEB SERVICE (AWS) HAS BECOME OUR TECHNOLOGY PARTNER WHO WILL PROVIDE US AMAZING SERVICES OF MARKETING FOR BUSINESS GROWTH .

RECENTLY WE RECEIVED AMOUNT \$6500 IN AWS CREDIT FOR OUR BUSINESS GROWTH FROM STARTUP INDIA





OUR MISSION

The Green Powered Future Mission will demonstrate by 2030 that power systems in all geographies and climates can effectively integrate up to 100% variable renewable energy (VRE) in their generation mix while maintaining a cost- efficient, secure, and resilient system. Centillionaires Ardor Industry Private Ltd will use its strategy, staff , and systems to provide each customer a seamless experience with solar based solutions for electricity and vehicles. The company wants to build a loyal and efficient team across the world with the shared goal of growing together.

OUR VISION

Our vision to is build a world class sustainable green energy solutions company and become the global leader with sustaining culture of trust, respect, ethics, values, collaboration and performance to achieve the long term business goals to save the earth. The company want to become respected company that enrich the lives of each member of the team and contribute towards the economic development of our country through sustainable energy solutions.



ceNdor SOLAR HAS DESIGNED, SUPPLIED, SOLUTION AND INSTALLED SOLAR SYSTEM ACROSS INDIA. ESPECIALLY IN GREEN ENERGY SOLUTIONS LIKE SOLAR POWER SOLUTIONS FOR :

INDUSTRIAL OR COMMERCIAL SOLAR POWER PLANTS ON

**Schools/ Colleges/ Campus
Manufacturing industries /Plant
Resorts/Restaurants /Hotels/Villas or Luxury Villas
Residential Societies/ Flats
Malls
Hospitals
Airports/ Bus stands,
Home solar power plant
Solar street lights for highway, Parks, Garden,
EV charging station, Highway & Petrol pump
Agricultural Solar Water Pumping.**

RURAL DEVELOPMENT

**SOLAR STREET LIGHTS &
AGRICULTURE SOLAR PUMP &
HOME STATION**

RESIDENTIAL SOLAR POWER PLANT

**RESIDENTIAL { WITH SUBSIDY }&
RESIDENTIAL { WITHOUT SUBSIDY }**



OPEX AND CAPEX MODEL FOR SOLAR POWER PLANTS

OPEX MODEL (OUR CORE AREA)

THIS IS A ZERO INVESTMENT MODEL FOR THE CUSTOMER. IN THIS MODEL, ceNdor WILL ENTER INTO A POWER PURCHASE AGREEMENT OF 10-25 YEARS WITH THE CUSTOMER. UNDER THE POWER PURCHASE AGREEMENT, ceNdor WILL BUILD, OPERATED AND MAINTAIN A SOLAR POWER PLANT AND SELL THE ELECTRICITY PRODUCED FROM THE SOLAR POWER PLANT TO THE CUSTOMER FOR THE TERM OF THE AGREEMENT. AFTER THE END OF THE AGREEMENT, THE POWER PLANT IS TRANSFERRED TO THE CUSTOMER FREE OF COST. ceNdor SPECIALIZES IN OPEX MODEL POWER PLANTS AND CATERS TO THIS SEGMENT.

CAPEX MODEL

THIS IS A COMPLETE UPFRONT INVESTMENT MODEL. IN THIS MODEL, THE CUSTOMER PAYS THE ENTIRE COST FOR SOLAR POWER PLANT UPFRONT AND THE ELECTRICITY PRODUCED FROM THE SOLAR POWER PLANT IS FREE FOR THE CUSTOMER FOR THE LIFE OF THE SOLAR POWER PLANT. ceNdor WORK IN THIS SEGMENT ALSO.





ON-GRID SYSTEM

ON-GRID SYSTEMS ARE SOLAR PV SYSTEMS THAT ONLY GENERATE POWER WHEN THE UTILITY POWER GRID IS AVAILABLE. THEY MUST CONNECT TO THE GRID TO FUNCTION. THEY CAN SEND EXCESS POWER GENERATED BACK TO THE GRID WHEN YOU ARE OVER PRODUCING SO YOU CREDIT IT FOR LATER USE. THESE ARE SIMPLEST SYSTEMS AND THE MOST COST EFFECTIVE TO INSTALL. THESE SYSTEMS WILL PAY FOR THEMSELVES BY OFFSETTING UTILITY BILLS IN 3 -8 YRS.

OFF-GRID SYSTEM

OFF-GRID SYSTEMS WORK INDEPENDENTLY OF THE GRID BUT HAVE BATTERIES WHICH CAN STORE THE SOLAR POWER GENERATED BY THE SYSTEM. THE SYSTEM USUALLY CONSISTS OF SOLAR PANELS, BATTERY, CHARGE CONTROLLER, GRID BOX, INVERTER, MOUNTING STRUCTURE AND BALANCE OF SYSTEMS.

HYBRID SOLAR

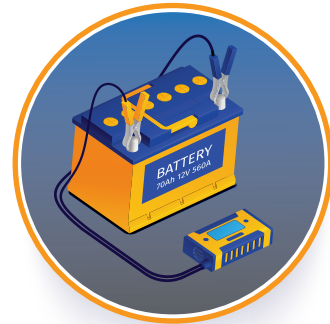
SOLAR HYBRID POWER SYSTEMS ARE HYBRID POWER SYSTEMS THAT COMBINE SOLAR POWER FROM A PHOTOVOLTAIC SYSTEM WITH ANOTHER POWER GENERATING ENERGY SOURCE. A HYBRID SOLAR SYSTEM WORKS BY SENDING SOLAR POWER TO YOUR INVERTER, WHICH THEN SENDS ENERGY TO POWER YOUR HOME. EXTRA ENERGY THAT IS NOT USED TO POWER YOUR HOME GOES TO YOUR HOME BATTERY FOR STORAGE. THIS BATTERY CAN PROVIDE POWER TO YOUR HOME WHEN YOUR SOLAR PANELS ARE NOT PRODUCING ENERGY.



SOLAR MODULES



SOLAR BATTERY



SPCC (SOLAR POWER CHARGE CONTROLLER)



LAPTOP



TELEVISION



SOLAR STREET LIGHT



SOLAR LIGHT



SOLAR COOLER



SOLAR AC



SOLAR FAN



REFRIGERATOR





SOLAR STATION SYSTEM LOAD

THE SOLAR MODULE

IS A NUMBER OF SOLAR CELLS CONNECTED TOGETHER AND ENCAPSULATED TO GIVE AN ELECTRICAL OUTPUT. FOR LARGER SYSTEMS, THE MODULES CAN BE CONNECTED IN SERIES AND PARALLEL TO FORM A SOLAR ARRAY.

THE CHARGE CONTROLLER

IS AT THE HEART OF EVERY SOLAR POWER SYSTEM, AND IS REQUIRED TO MONITOR AND CONTROL THE POWER GOING INTO AND COMING OUT OF THE BATTERY. IT MUST ALSO MANAGE THE POWER GENERATED BY THE SOLAR PANEL TO ENSURE IT DOES NOT OVERCHARGE THE BATTERY. THE CHARGE CONTROLLER MUST ALSO ENSURE THAT THE CONNECTED LOADS DON'T OVER-DISCHARGE THE BATTERY, THEREBY DAMAGING IT.

THE SOLAR BATTERY

STORES THE ELECTRICITY FROM THE SOLAR MODULE VIA THE CHARGE CONTROLLER. THIS ELECTRICITY CAN THEN BE USED AT NIGHT OR IN PERIODS OF BAD WEATHER. GEL, **AGM** AND WET TYPES ARE AVAILABLE.

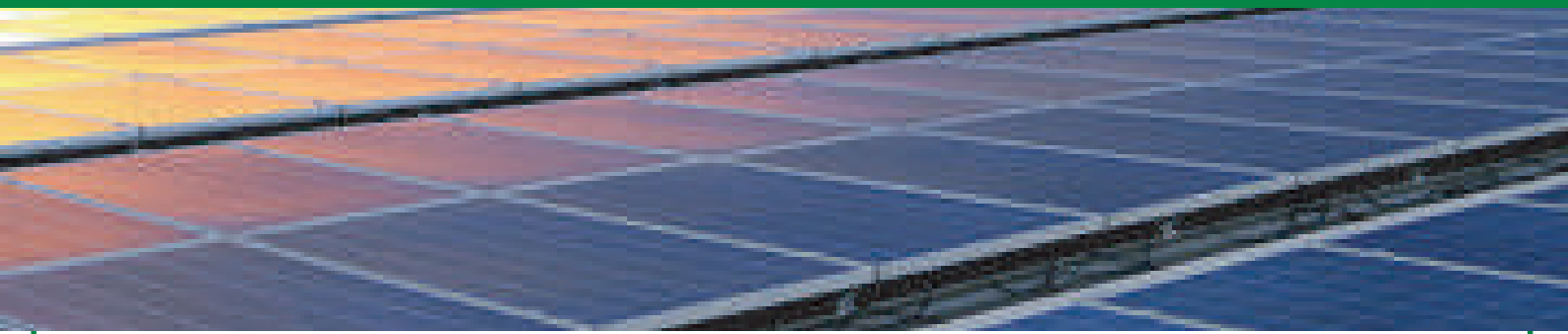
THE LOAD

COVERS ANY EQUIPMENT WHICH REQUIRES POWER TO OPERATE. EXAMPLES INCLUDE LIGHTS, TELEVISIONS, WATER PUMPS AND RADIO TRANSMITTERS

THE SOLAR INVERTER

INVERTER BATTERY CAPACITY SIMPLY IS JUST THE AMOUNT OF LOAD AND NUMBER OF HOURS YOUR INVERTER BATTERY WOULD BE ABLE TO LAST IN A SINGLE CHARGE.

SOLOUR MODULES



GENERAL INFORMATION ON SOLAR CELL TECHNOLOGY

SOLAR CELLS DIRECTLY CONVERT SUNLIGHT INTO ELECTRICITY BY MEANS OF THE PHOTOVOLTAIC EFFECT. THIS OCCURS WHEN PHOTONS ARE ABSORBED BY A SOLAR CELL WHICH GENERATES A VOLTAGE ACROSS ITS TERMINALS. CELLS ARE CONNECTED IN SERIES WITHIN A SOLAR MODULE TO PROVIDE SUFFICIENT VOLTAGE TO OPERATE A SYSTEM. MODULES CAN BE CONNECTED IN SERIES AND PARALLEL TO INCREASE THE SYSTEM POWER. THIS SOLID STATE PROCESS PROVIDES A CLEAN, SILENT NON POLLUTING AND RELIABLE SOURCE OF ELECTRICAL ENERGY.

ceNdor INDUSTRY PROVIDE FOUR PHOTOVOLTAIC (PV)

POLYCRYSTALLINE MADE FROM CELLS CUT FROM SEVERAL SILICON CRYSTALS.

MONOCRYSTALLINE MADE FROM CELLS CUT FROM SINGLE SILICON CRYSTALS.

HALF CUT SOLAR PANEL PROVIDE SEVERAL BENEFITS OVER TRADITIONAL SOLAR CELLS. PERFORMANCE-WISE, HALF-CUT CELLS CAN INCREASE PANEL EFFICIENCIES BY A FEW PERCENTAGE POINTS.

THIN-FILM SOLAR CELL IS MADE FROM AMORPHOUS SILICON (A-Si), WHICH IS A NON-CRYSTALLINE SILICON MAKING THEM MUCH EASIER TO PRODUCE THAN MONO OR POLYCRYSTALLINE SOLAR CELLS.

A CRYSTAL IS A REGULAR GEOMETRIC STATE TAKEN UP BY A MATERIAL'S CONSTITUENT ELEMENTS IN CERTAIN CONDITIONS.

MONO, POLYCRYSTALLINE, HALF CUT MONO AND THIN FILM SOLAR CELL MODULES CELLS ARE SILICON WAFERS FROM CYLINDRICAL SILICON CRYSTALS. THESE WAFERS ARE THEN CHEMICALLY TREATED IN FURNACES TO ENHANCE THEIR ELECTRICAL PROPERTIES, AFTER WHICH AN ANTI-REFLECTION COATING IS APPLIED TO THE CELL SURFACE TO HELP IT ABSORB RADIATION MORE EFFECTIVELY.

THIN METAL WIRES ARE SOLDERED TO THE FRONT OF THE CELL. THESE "RIBBONS" OF METAL ON THE CELL ACT AS THE POSITIVE CONTACT, WHILE A SOLID LAYER OF METAL ON THE BACK OF THE CELL ACTS AS THE NEGATIVE CONTACT.

MONOCRYSTALLINE, POLYCRYSTALLINE HALF CUT MONOCRYSTALLINE AND THIN FILM MATERIALS ARE CHEMICALLY STABLE, MAKING THEM DURABLE AND EXTREMELY LONG-LASTING, IF PROPERLY PROTECTED. THEY PROVIDE THE IDEAL TECHNOLOGY FOR MAKING SMALL, AND MEDIUM TO LARGE SOLAR MODULES.

MONOCRYSTALLINE CELLS HAVE A SINGLE COLOR TONE, WHEREAS POLYCRYSTALLINE CELL SURFACES HAVE MULTI PATTERNS. POLYCRYSTALLINE CELLS HAVE AN EFFICIENCY OF 9-13%, COMPARED TO 11-16% FOR POLYCRYSTALLINE CELLS.

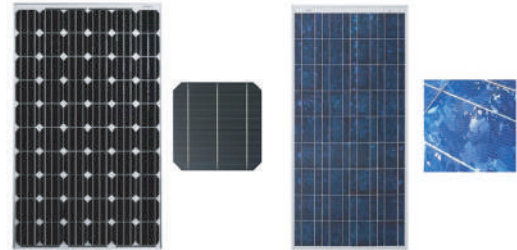
HALF CUT MONOCRYSTALLINE REDUCED RESISTIVE LOSSES. ONE SOURCE OF POWER LOSS WHEN SOLAR CELLS CONVERT SUNLIGHT INTO ELECTRICITY IS RESISTIVE LOSSES OR POWER LOST DURING ELECTRICAL CURRENT TRANSPORT.

THIN FILM SOLAR CELLS INCLUDE LOW MATERIAL CONSUMPTION, SHORTER ENERGY PAYBACK PERIOD, LARGE AREA MODULES.

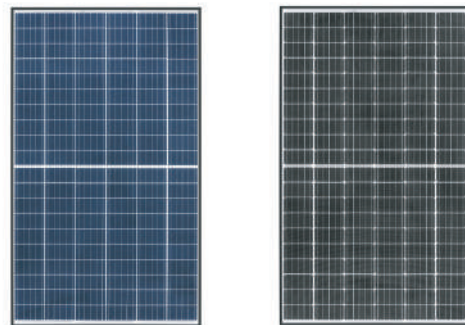
(I.E. IF SOLAR RADIATION IS STRIKING THE CELLS AT A PERPENDICULAR ANGLE WITH AN INTENSITY OF $1000W/M^2$, THEN 90 TO 130 WATTS OF POWER PER M^2 OF SOLAR CELL IS CONVERTED TO ELECTRICITY).

ceNdor INDUSTRY POLYCRYSTALLINE SOLAR , HALF CUT MONOCRYSTALLINE SOLAR, MONOCRYSTALLINE SOLAR AND THIN FILM (A-Si) SOLAR MODULES.

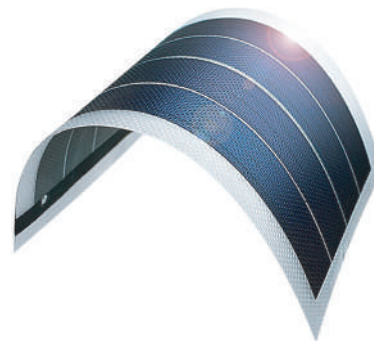
MONOCRYSTALLINE POLYCRYSTALLINE



HALF CUT SOLAR PANEL



THIN-FILM SOLAR CELL



HIGH TRANSMISSION

TEMPERED GLASS PROTECTS THE CELLS FROM THE FRONT WITH A HIGH STRENGTH POLYMER SHEET AT THE REAR.

A REINFORCED ALUMINUM FRAME COMPLETES THE LAMINATE STRUCTURE WHICH IS FULLY SEALED AGAINST MOISTURE AND PROTECTED FROM ENVIRONMENTAL AND MECHANICAL DAMAGE.



ceNdor INDUSTRY (POLYCRYSTALLINE) RANGE

MODEL		CP10-PS	CP20-PS	CP30-PS	CP40-PS	CP60-PS
SIZE OF CELLS	MM	78 x 26	125 x 32	159 x 39	156 x 52	158 x 78
NUMBER OF CELLS	PCS	36	36	36	36	36
TYPICAL POWER	WP	10	20	30	40	60
OPEN CIRCUIT VOLTAGE	V	21.4	21.2	21.6	21.6	21.6
OPTIMUM OPERATING VOLTAGE	V	16.8	16.8	17.2	17.2	17.2
SHORT CIRCUIT CURRENT	A	0.54	1.32	1.93	2.62	3.85
OPTIMUM OPERATING CURRENT	A	0.48	1.19	1.74	2.32	3.49
NOCT (0.8kW/M_ 20°C 1M/s)	°C	48°C ± 2°C	48°C ± 2°C	48°C ± 2°C	48°C ± 2°C	48°C ± 2°C
FRAME DIMENSIONS (LxWxD)	MM	310 x 368 x 18	656 x 306 x 18	426 x 680 x 30	537 x 665 x 30	771 x 665 x 30
DEPTH WITH JUNCTION BOX	MM	30	30	30	30	45
WEIGHT (NET)	KG	1.5	2.5	3.2	4.5	6.2
WARRANTY	YEARS	25	25	25	25	25

THESE ARE THE MOST POPULAR SIZES. OTHER SIZES AVAILABLE ON REQUEST.

MODEL		CP155-PS	CP160-PS	CP165-PS	CP170-PS	CP175-PS
SIZE OF CELLS	MM	125 x 125	125 x 125	125 x 125	125 x 125	125 x 125
NUMBER OF CELLS	PCS	72	72	72	72	72
TYPICAL POWER	WP	155	160	165	170	175
OPEN CIRCUIT VOLTAGE	V	42.2	42.4	42.6	42.8	43.2
OPTIMUM OPERATING VOLTAGE	V	33.3	33.5	33.8	34.1	34.2
SHORT CIRCUIT CURRENT	A	5.08	5.12	5.23	5.32	5.4
OPTIMUM OPERATING CURRENT	A	0.48	1.19	1.74	2.32	3.49
NOCT (0.8kW/M_ 20°C 1M/s)	°C	48°C ± 2°C	48°C ± 2°C	48°C ± 2°C	48°C ± 2°C	48°C ± 2°C
FRAME DIMENSIONS (LxWxD)	MM	1580 x 808 x 35	1580 x 808 x 35	1580 x 808 x 35	1580 x 808 x 35	1580 x 808 x 35
DEPTH WITH JUNCTION BOX	MM	45	45	45	45	45
WEIGHT (NET)	KG	15.5	15.5	15.5	15.5	15.5
WARRANTY	YEARS	25	25	25	25	25

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SPECIFICATIONS



ceNdor INDUSTRY (POLYCRYSTALLINE) RANGE

MODEL		SP65-PS	SP70-PS	SP75-PS	SP80-PS	SP85-PS	SP120-PS	SP130-PS	SP140-PS
SIZE OF CELLS	MM	158x78	158x78	125X125	125X125	125X125	156X156	156X156	156X156
NUMBER OF CELLS	PCS	36	36	36	36	36	36	36	36
TYPICAL POWER	WP	65	70	75	80	85	120	130	140
OPEN CIRCUIT VOLTAGE	V	21.8	22.1	21	21.2	21.4	21.6	21.8	22.1
OPTIMUM OPERATING VOLTAGE	V	17.2	17.6	16.6	16.8	17.1	17.2	17.2	17.6
SHORT CIRCUIT CURRENT	A	3.93	4.05	5	5.12	5.32	7.7	7.85	8.1
OPTIMUM OPERATING CURRENT	A	3.78	3.98	4.52	4.76	4.97	6.98	7.56	7.95
NOCT (0.8kW/M_ 20°C 1m/s)	°C	48°C±2°C	48°C±2°C	48°C±2°C	48°C±2°C	48°C±2°C	48°C±2°C	48°C±2°C	48°C±2°C
FRAME DIMENSIONS (LxWxD)	MM	771X665X30	771X665X30	1195X541X30	1195X541X30	1195X541X30	1482X676X35	1482X676X35	1482X676X35
DEPTH WITH JUNCTION BOX	MM	45	45	45	45	45	45	45	45
WEIGHT (NET)	KG	6.2	6.2	8	8	8	12	12	12
WARRANTY	YEARS	25	25	25	25	25	25	25	25

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MODEL		SP220-PS	SP230-PS	SP240-PS	SP250-PS	SP260-PS	SP270-PS	SP280-PS
SIZE OF CELLS	MM	156X156	156X156	156X156	156X156	156X156	156X156	156X156
NUMBER OF CELLS	PCS	72	72	72	72	72	72	72
TYPICAL POWER	WP	220	230	240	250	260	270	280
OPEN CIRCUIT VOLTAGE	V	42.2	42.4	43.2	43.2	43.6	43.8	43.8
OPTIMUM OPERATING VOLTAGE	V	34	34	34.4	34.4	34.8	35.2	35.2
SHORT CIRCUIT CURRENT	A	7.48	7.6	7.7	7.82	7.9	8.1	8.3
OPTIMUM OPERATING CURRENT	A	6.47	6.76	6.98	7.27	7.47	7.67	7.95
NOCT (0.8kW/M_ 20°C 1m/s)	°C	48°C±2°C	48°C±2°C	48°C±2°C	48°C±2°C	48°C±2°C	48°C±2°C	48°C±2°C
FRAME DIMENSIONS (LxWxD)	MM	1956X992X50	1956X992X50	1956X992X50	1956X992X50	1956X992X50	1956X992X50	1956X992X50
DEPTH WITH JUNCTION BOX	MM	45	45	45	45	45	45	45
WEIGHT (NET)	KG	23	23	23	23	23	23	23
WARRANTY	YEAR	25	25	25	25	25	25	25
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ceNdor industry solar system

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ceNdor INDUSTRY (MONOCRYSTALLINE) MODULE RANGE

MODEL		CP10-MS	CP20-MS	CP30-MS	CP40-MS	CP45MS
SIZE OF CELLS	mm	125x14	125x32	125x42	125x63	125x42
NUMBER OF CELLS	pcs	36	36	36	18	18
TYPICAL POWER	Wp	10	20	30	40	45
OPEN CIRCUIT VOLTAGE	V	21.6	21.6	21.6	21.6	21.6
OPTIMUM OPERATING VOLTAGE	V	17.8	17.8	17.8	17.8	17.8
SHORT CIRCUIT CURRENT	A	0.6	1.25	1.88	2.5	2.82
OPTIMUM OPERATING CURRENT	A	0.56	1.12	1.69	2.25	2.53
Noct(0.8kW/M_20 C 1m/s)	°C	46°C	46°C	46°C	46°C	46°C
FRAME DIMENSIONS(LxWxD)	mm	350x290x35	643x282x35	445x536x35	633x536x35	830x536x35
DEPTH WITH JUNCTION BOX	mm	25	25	25	25	25
WEIGHT(NET)	Kg	1.35	2.4	3.2	4.5	5.4
WARRANTY	years	25	25	25	25	25

THESE ARE THE MOST POPULAR SIZES. OTHER SIZES AVAILABLE ON REQUEST.

MODEL		CP115-MS	CP120-MS	CP125-MS	CP130-MS	CP135-MS
SIZE OF CELLS	mm	125x62	125x62	125x62	125x62	125x62
NUMBER OF CELLS	pcs	54	54	54	54	54
TYPICAL POWER	Wp	115	120	120	130	135
OPEN CIRCUIT VOLTAGE	V	21.6	21.6	21.6	21.6	21.6
OPTIMUM OPERATING VOLTAGE	V	17.8	17.8	17.8	17.8	17.8
SHORT CIRCUIT CURRENT	A	7.19	6.74	6.74	8.2	8.6
OPTIMUM OPERATING CURRENT	A	6.46	7.51	7.82	7.3	7.5
Noct(0.8kW/M_20 C 1m/s)	°C	46°C	46°C	46°C	46°C	46°C
FRAME DIMENSIONS(LxWxD)	mm	1209x808x50	1209x808x50	1209x808x50	1209x808x50	1209x808x50
DEPTH WITH JUNCTION BOX	mm	34	34	34	34	34
WEIGHT(NET)	Kg	12.4	12.4	12.4	12.4	12.4
WARRANTY	years	25	25	25	25	25

THESE ARE THE MOST POPULAR SIZES. OTHER SIZES AVAILABLE ON REQUEST.

SPECIFICATIONS



ceNdor INDUSTRY (MONOCRYSTALLINE) MODULE RANGE

		CP50-MS	CP55-MH	CP60-MS	CP65-MS	CP70-MS	CP75-MS	CP80-MS	CP85-MS	CP90-MS
SIZE OF CELLS	MM	125X42	125X42	125X42	125X125	125X125	125X125	125X125	125X125	125X62
NUMBER OF CELLS	pcs	24	24	24	36	36	36	36	36	108
TYPICAL POWER	wp	50	55	60	65	70	75	80	85	100
OPEN CIRCUIT VOLTAGE	v	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
OPTIMUM OPERATING VOLTAGE	v	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8
SHORT CIRCUIT CURRENT	a	3.13	3.4	3.75	4.04	4.37	4.69	5.01	5.32	6.26
OPTIMUM OPERATING CURRENT	a	2.81	3.09	3.37	3.65	3.93	4.21	4.49	4.78	5.62
NOCT (0.8kW/M_ 20°C 1m/s)	°C	46°C	46°C	46°C	46°C	46°C	46°C	46°C	46°C	46°C
FRAME DIMENSIONS (LxWxD)	MM	25	25	25	25	25	25	25	25	25
DEPTH WITH JUNCTION BOX	MM	633x536x35	633x536x35	633x536x35	830x536x35	1195x542x35	1195x542x35	1195x542x35	1195x542x35	1195x88x50
WEIGHT (NET)	kg	5.4	5.4	5.4	8.6	8.6	8.6	8.6	8.6	8.6
WARRANTY	year	25	25	25	25	25	25	25	25	25

THESE ARE THE MOST POPULAR SIZES. OTHER SIZES AVAILABLE ON REQUEST.

		CP150-MS	CP155-MH	CP160-MS	CP165-MS	CP170-MS	CP175-MS	CP180-MS	CP185-MS	CP190-MS
SIZE OF CELLS	MM	125X125	125X125	125X125	125X125	125X125	125X125	125X125	125X125	125X125
NUMBER OF CELLS	pcs	72	72	72	72	72	72	72	72	72
TYPICAL POWER	wp	150	155	160	165	170	175	180	185	195
OPEN CIRCUIT VOLTAGE	v	43.4	43.6	44	44.2	44.5	44.8	45.2	45.4	45
OPTIMUM OPERATING VOLTAGE	v	35.6	35.6	35.6	35.6	35.6	35.8	36.3	36.5	37.5
SHORT CIRCUIT CURRENT	a	4.66	4.79	4.85	5.03	5.15	5.26	5.4	5.49	5.56
OPTIMUM OPERATING CURRENT	a	4.21	4.35	4.49	4.64	4.78	4.88	4.96	5.05	5.21
NOCT (0.8kW/M_ 20°C 1m/s)	°C	46°C	46°C	46°C	46°C	46°C	46°C	46°C	46°C	48°C
FRAME DIMENSIONS (LxWxD)	MM	34	34	34	34	34	34	34	34	34
DEPTH WITH JUNCTION BOX	MM	1580x808x50	1580x808x50	1580x808x50	1580x808x50	1580x808x50	1580x808x50	1580x808x50	1580x808x50	1580x808x50
WEIGHT (NET)	kg	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2
WARRANTY	year	25	25	25	25	25	25	25	25	25

THESE ARE THE MOST POPULAR SIZES. OTHER SIZES AVAILABLE ON REQUEST.

ceNdor industry solar system
www.cendorindustry.com



CHARGE CONTROLLERS

CHARGE CONTROLLERS: THE CHARGE CONTROLLER IS AT THE HEART OF EVERY SOLAR SYSTEM AND IS REQUIRED TO MONITOR AND CONTROL THE POWER GOING INTO AND COMING OUT OF THE BATTERY. IT MUST ALSO MANAGE THE POWER GENERATED BY THE SOLAR PANEL TO ENSURE IT DOES NOT OVERCHARGE THE BATTERY.

THE CHARGE CONTROLLER MUST ALSO ENSURE THAT THE CONNECTED LOADS DON'T OVER - DISCHARGE THE BATTERY, THEREBY DAMAGING IT. CHARGE CONTROLLERS ARE STATE OF THE ART MICROPROCESSOR CONTROLLED AND RANGE FROM 6 TO 960 AMPS AT 12V OR 24V, OR 48V AND UP TO HUNDREDS OF AMPS FOR PROFESSIONAL SOLAR GENERATION SYSTEMS.

KEY



THERE ARE TWO TYPES OF SOLAR CHARGE CONTROLLERS

1. PWM (PULSE WIDTH MODULATION)
2. MPPT (MAXIMUM POWER POINT TRACKER)



PWM SOLAR CHARGE CONTROLLER: PWM (PULSE WIDTH MODULATION)

SOLAR CHARGE CONTROLLER IS AN ELECTRONIC DEVICE WHICH WORKS TO MATCH THE VOLTAGE OF PANEL TO VOLTAGE OF BATTERY. IT PULLS DOWN THE PANEL'S OUTPUT VOLTAGE IN DOING SO.

MPPT SOLAR CHARGE CONTROLLER: AN MPPT CONTROLLER, OR MAXIMUM POWER POINT TRACKER IS AN ELECTRONIC DC TO DC CONVERTER THAT OPTIMIZES THE MATCH BETWEEN THE SOLAR ARRAY (PV PANELS) AND THE BATTERY BANK.

THEY CONVERT A HIGHER VOLTAGE DC OUTPUT FROM SOLAR PANELS DOWN TO THE LOWER VOLTAGE NEEDED TO CHARGE BATTERIES AND CONVERT EXTRA VOLTAGE OF PANEL INTO CURRENT WHICH INCREASES THE OUTPUT FROM SOLAR SYSTEM.



PWM

FEATURES:

- 12 & 24 VOLT VERSIONS AVAILABLE
- TAMPER-PROOF FIXED VOLTAGE THRESHOLDS (OPTIONS AVAILABLE)
- LIGHTNING PROTECTION
- REVERSE POLARITY PROTECTED
- LOW POWER CONSUMPTION
- REVERSE DISCHARGE PREVENTION
- PULSE WIDTH MODULATION (PWM) CHARGING TECHNIQUE
- SOLID STATE MOSFET TECHNOLOGY
- OVERLOAD PROTECTION WITH AUTOMATIC RECONNECTION
- MICROPROCESSOR CONTROLLED
- STATUS INDICATION BY 5 LEDs

APPLICATIONS:

- STREET LIGHTING
- SMALL/MEDIUM SIZED APPLICATIONS
- RURAL ELECTRIFICATION
- HOME LIGHTING SYSTEMS
- BEACONS
- REMOTE TELEMETRE

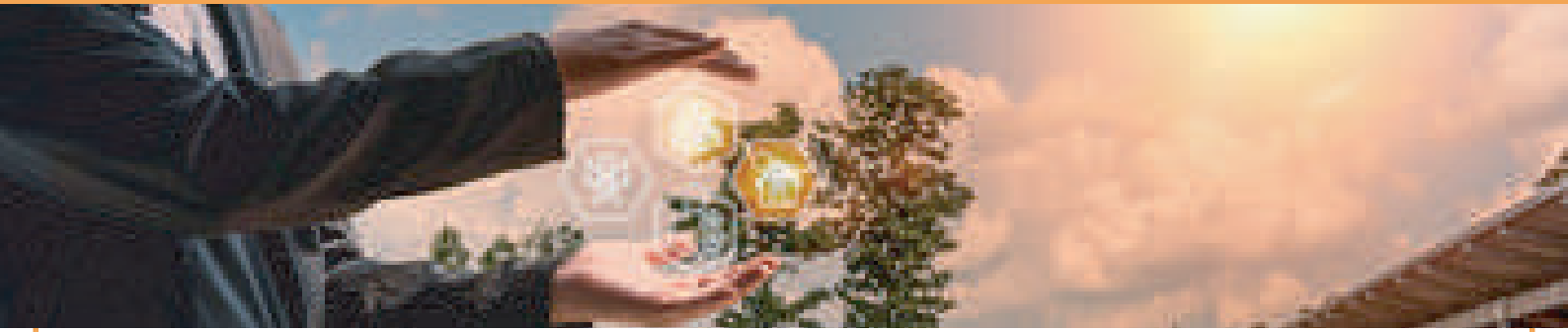
MPPT

FEATURES:

- 12 & 24 VOLT FIELD SELECTABLE (10E)
- MICROPROCESSOR CONTROLLED
- REVERSE POLARITY PROTECTED
- IN BUILT STREET LIGHTING TIMER (10E)
- FIELD ADJUSTABLE VOLTAGE THRESHOLD
- LIGHTNING PROTECTION
- OVERLOAD PROTECTION
- LOW POWER CONSUMPTION
- REMOTE BATTERY SENSE (10E)
- STATUS INDICATION BY 4 (10) OR 5 LEDs (10E)
- REMOTE TEMPERATURE COMPENSATION (10E)
- TEST/RESET/LVD BREAK SWITCH (10E)

APPLICATIONS:

- STREET LIGHTING
- SMALL/MEDIUM SIZED APPLICATIONS
- RURAL ELECTRIFICATION
- BEACONS
- HOME LIGHTING SYSTEMS
- REMOTE TELEMETRE
- BILLBOARD LIGHTING
- COMMERCIAL LIGHTING
- RURAL ELECTRIFICATION



SOLAR BATTERIES

SOLAR BATTERIES DESIGNED FOR PROFESSIONAL APPLICATIONS, THE RANGE ENCOMPASSES VRLA AND WET TECHNOLOGY WITH BOTH TABULAR AND FLAT PLATES AND A CAPACITY RANGE FROM 20Ah TO 15600Ah.

SOLAR SYSTEMS ARE THE MOST DEMANDING APPLICATIONS FOR BATTERIES AND THE CORRECT CHOICE OF BATTERY IS FUNDAMENTAL TO THE INTEGRITY OF THE ENTIRE SYSTEM. BATTERIES ARE SUBJECTED TO HIGH AND LOW TEMPERATURES, UNPREDICTABLE CHARGING, DAILY CYCLING AS WELL AS POTENTIALLY PARTIAL STATES OF DISCHARGE.

THEREFORE IT IS OF UTMOST IMPORTANCE TO CHOOSE THE RIGHT BATTERY FOR THE RIGHT APPLICATION IN ORDER TO MAXIMISE BATTERY LIFE.

THERE ARE TWO TYPES OF BATTERIES

1. FLAT PLATE BATTERY
2. TUBULAR BATTERY



TUBULAR BATTERIES ARE TALLER THAN FLAT PLATE BATTERIES. THEY ARE MANUFACTURED BY USING THREE MAIN CHEMICAL COMPOSITIONS: LEAD ACID, LITHIUM ION, AND SALTWATER. LITHIUM ION BATTERIES ARE VERY SUCCESSFUL AND BEST OPTION FOR A HOME SOLAR PANEL SYSTEM.

HOWEVER, MANY SOLAR SITES ARE IN REMOTE AREAS WHERE ACCESS IS DIFFICULT AND MAINTENANCE IS AT A PREMIUM. HERE WE CAN ADVISE ON THREE DIFFERENT TECHNOLOGIES FOR VALVE REGULATED LEAD ACID (VRLA) BATTERIES (OFTEN REFERRED TO AS MAINTENANCE-FREE BATTERIES).

THE FIRST TYPE WITH THE HIGHEST NUMBER OF CYCLES AND THE BEST SUITABILITY FOR LONG DISCHARGE IS THE VRLA TUBULAR GEL BATTERY.



SOLAR LIGHT

ceNdor PROVIDE BEST DESIGNS AND SUPPORTS A WIDE VARIETY OF HIGH EFFICIENCY LIGHTS FOR INDOOR OUTDOOR AND STREET LIGHT APPLICATIONS IN 12v, 24v AND 48v VERSIONS.

AS TECHNOLOGY ADVANCED, SOLAR PANELS HAVE ALSO EVOLVED.

NOW SOLAR LIGHTS AVAILABLE IN ATTRACTIVE DESIGNS

- **LUMINA**
- **ECOLITE 8**
- **ECOLITE 18**
- **SOLAR FLUORESCENT LIGHT**
- **STREET LIGHTING**
- **LED STREETING**
- **SOLAR LANTERN**





LED TUBE LIGHT



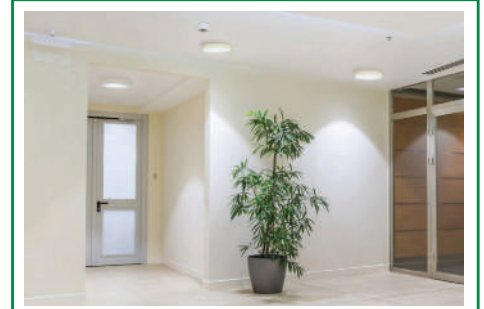
LED LIGHT PANEL

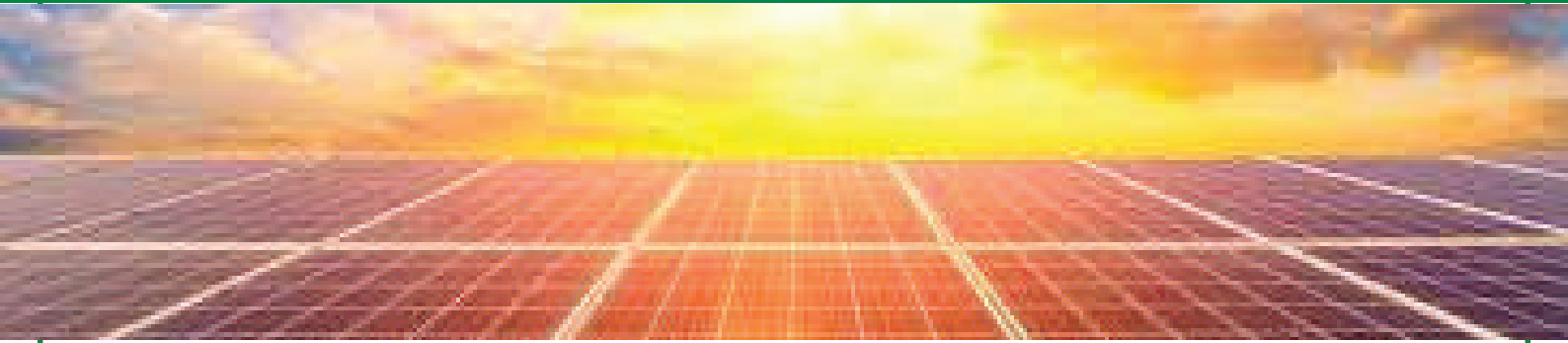


LED BULB



LED SURFACE PANEL





SOLAR STREET LIGHTS

THE ceNdor RANGE OF STREET LIGHTING SYSTEMS IS COMPLETELY SELF-CONTAINED, REQUIRING NO ELECTRICITY LINE EXTENSIONS. ALSO, MAINTENANCE-FREE, MAKING THEM IDEAL FOR LOCATIONS WHERE UTILITY POWER IS UNAVAILABLE OR UNECONOMIC. SAFE AND SUPERIOR THE CITY BEAMS WITH PRIDE, BECAUSE OF THE WARM GLOW OF OUR LED STREETLIGHTS, IT MAKES THE CITY SEEM MAJESTIC AND TRULY SPECIAL. THE ROADS AND ALLEYWAYS OF THE CITY ARE ALWAYS PAVED WITH SAFETY AND ONE CAN WALK THEM WITHOUT FEAR.

HIGH POWER LED LIGHTING

CENDOR PROVIDE LED LIGHTS PRIMARILY INTENDED FOR SOLAR POWER APPLICATIONS THAT CAN ALSO BE USED FOR AC GRID POWER SITES.

BENEFITS OF LED STREET LIGHT

- LONG LIFE. 55,000+ HOURS OPERATION (MORE THAN 12 YEARS AT 12 HOURS A DAY).
 - REDUCED MAINTENANCE COSTS DUE TO LONG LIFE.
- ROBUST; CAN WITHSTAND VIBRATION FROM TRANSPORT AND ROUGH WEATHER.
 - ATTRACTIVE WHITE LIGHT.
 - VERY EFFICIENT.
- SMALL SIZE COMPARED WITH OTHER LAMPS OF SAME OUTPUT.
 - INSTANT START (NO WARMING UP PERIOD).

EFFICIENT PL LIGHTING

HIGH POWER FLUORESCENT LAMPS SUITABLE FOR BOTH INDOOR AND OUTDOOR LIGHTING.
2400 LUMENS OUTPUT.

FEATURES

- NO UTILITY LINE EXTENSIONS • NO UTILITY BILLS • FAST AND SIMPLE INSTALLATION
- LOCATION FLEXIBILITY • MAINTENANCE-FREE • AUTOMATIC OPERATION • HIGH RELIABILITY
- LONG LIFETIME • 2 YEAR WARRANTY ON SYSTEMS • 25 YEAR WARRANTY ON SOLAR MODULE

APPLICATIONS

- LIGHTING OF STREETS • MARKETS • SQUARES • CAR PARKS • BUS STOPS • RURAL ROADS
- ROUNDABOUTS • CROSSINGS • FOOTPATHS • CAMP SITES • BEACHES • SERVICE STATIONS
- HIGHWAYS AND MOTORWAYS



SAFETY
FOR TRAFFIC



SECURITY
FOR CITICENS



ENVIRONMENT
FRIENDLY

SOLAR STREET LIGHTS



SOLAR STREET LIGHTS

MODEL No:	SSL9W	SSL12W	SSL15W	SSL18W
SOLAR PANEL:	12V 50w	12V 50w	12V 60w	12V 75w
BATTERY SIZE:	26AH EXIDE SMF	42AH EXIDE SMF	42AH EXIDE SMF	65AH EXIDE SMF
DIMMING OPTION:	YES	YES	YES	YES
DRIVER EFFICIENCY:	GREATER THAN 85%	GREATER THAN 85%	GREATER THAN 85%	GREATER THAN 85%
LED EFFICIENCY:	> 80%	> 80%	> 80%	> 80%
LED WORKING VOLTAGE:	3.18V (350MA)	3.18V (350MA)	3.18V (350MA)	3.18V (350MA)
NUMBER OF LEDs:	18	24	30	36
POWER CONSUMPTION:	9W	12W	15W	18W
LED EFFICIENCY:	>=130 LM/M	>=140 LM/W	>=140 LM/W	>=140 LM/W
CRI:	70/82	70-82	70-82	70-82
LIGHT SOURCE:	OSRAM / CREE	OSRAM / CREE	OSRAM / CREE	OSRAM / CREE
HEIGHT OF POLE:	4.5 M POWER COATED	4.5 M POWER COATED	4.5 M POWER COATED	5M POWER COATED
RECOMMENDED POLE DISTANCE:	8M - 10M	8M - 10M	8M - 10M	8M - 10M
MAXIMUM CURRENT CONSUMPTION:	350MA	350MA	350MA	350MA
MAX TEMPERATURE OF HEAT SINK:	65 °C	65 °C	65 °C	65 °C
LED BEAM ANGEL:	80/TD>	80/TD>	80/TD>	80/TD>
STORAGE TEMPERATURE:	35°C	35°C	35°C	35°C
WORKING LIFE:	60000 HRS	60000 HRS	60000 HRS	60000 HRS
DIMENSIONS:	320x140x45MM	320x140x45MM	360x135x75MM	360x135x75MM
PIPE DIAMETER	60MM	60MM	60MM	60MM
WEIGHT:	2KG	2KG	2.5KG	2.5KG
IP RARING:	Ip65	Ip65	Ip65	Ip65
WARRANTY:	5 YEARS	5 YEARS	5 YEARS	5 YEARS



SOLAR STREET LIGHTS

MODEL NO:	SSL24W	SSL30W	SSL36W	SSL40W
SOLAR PANEL:	12V 120W	12V 120w	12V 150w	12V 150w
BATTERY SIZE:	100AH EXIDE SMF	120AH EXIDE SMF	150AH EXIDE SMF	150AH EXIDE SMF
DIMMING OPTION:	YES	YES	YES	YES
DRIVER EFFICIENCY:	GREATER THAN 85%	GREATER THAN 85%	GREATER THAN 85%	GREATER THAN 85%
LED EFFICIENCY:	> 80%	> 80%	> 80%	> 80%
LED WORKING VOLTAGE:	3.18V (350MA)	3.18V (350MA)	3.18V (350MA)	3.18V (350MA)
NUMBER OF LEDs:	72	90	108	120
POWER CONSUMPTION:	24W	30W	36W	36W
LED EFFICIENCY:	>=140 LM/W	>=140 LM/W	>=140 LM/W	>=140 LM/W
CRI:	70-82	70-82	70-82	70-82
LIGHT SOURCE:	OSRAM / CREE	OSRAM / CREE	OSRAM / CREE	OSRAM / CREE
HEIGHT OF POLE:	5M POWER COATED	5M POWER COATED	5M POWER COATED	5M POWER COATED
RECOMMENDED POLE DISTANCE:	8M - 10M	8M - 10M	8M - 10M	8M - 10M
MAXIMUM CURRENT CONSUMPTION:	350MA	350MA	350MA	350MA
MAX TEMPERATURE OF HEAT SINK:	65 °C	65 °C	65 °C	65 °C
LED BEAM ANGEL:	80°/TD>	80°/TD>	80°/TD>	80°/TD>
STORAGE TEMPERATURE:	35°C	35°C	35°C	35°C
WORKING LIFE:	60000 HRS	60000 HRS	60000 HRS	60000 HRS
DIMENSIONS:	360x135x75MM	360x135x75MM	429x201x63MM	429x201x63MM
PIPE DIAMETER	60MM	60MM	60MM	60MM
WEIGHT:	2.5KG	2.5KG	3.5KG	3.5KG
IP RARING:	Ip65	Ip65	Ip65	Ip65
WARRANTY:	5 YEARS	5 YEARS	5 YEARS	5 YEARS



CENDOR INDUSTRY LANTERN PROVIDES SIMPLE, INEXPENSIVE SOLAR-POWERED LIGHTING FOR UP TO 10 HOURS. IT IS PERFECT FOR RURAL AREA, HOUSEHOLDS FARMS AND CENTRES. SOLAR-POWERED HOUSEHOLD LIGHTING CAN REPLACE OTHER LIGHT SOURCES LIKE CANDLES OR KEROSENE LAMPS.

SOLAR LAMPS HAVE A LOWER OPERATING COST THAN KEROSENE LAMPS BECAUSE RENEWABLE ENERGY FROM THE SUN IS FREE, UNLIKE FUEL.

IN ADDITION, SOLAR LAMPS PRODUCE NO INDOOR AIR POLLUTION UNLIKE KEROSENE LAMPS. ESSENTIALLY, EACH LIGHTS SOLAR CELL PRODUCES ENERGY, WHICH CHARGES THE BATTERY DURING THE DAY. SOLAR-POWERED LIGHTS STOP PRODUCING ENERGY AT NIGHT, SO THE PHOTORESISTOR, WHICH DETECTS THE ABSENCE OF LIGHT, ACTIVATES THE BATTERY, WHICH TURNS THE LED LIGHT ON.

FEATURES

SOLAR LANTERN RECHARGEABLE FROM THE SUN, MAINS OR CAR SOCKET

- A TRULY BRIGHT PORTABLE LIGHT EQUIVALENT TO 60 WATTS DOMESTIC LIGHT
 - LONG-LIFE COMPACT FLUORESCENT TUBE
- PROVIDES UP TO 10 HOURS RUNNING TIME DEPENDING ON LAMP AND BATTERY CONDITIONS
 - AUTO-ON OPTION TURNS GLOW STAR INTO EMERGENCY OR SECURITY LAMP
 - FOUR LED INDICATION SHOWING STATE OF BATTERY
 - PORTABLE, ROBUST AND EASY TO CARRY
- CHARGE YOUR MOBILE PHONE, MP3 PLAYER AND OTHER SMALL ELECTRICAL ITEMS FROM IT



APPLICATIONS

- HOUSEHOLD USAGE • SCHOOLWORK & STUDYING • OUTDOOR / RECREATIONAL ACTIVITIES
- EMERGENCY & MEDICAL WORK • SITE INSPECTION • USE BY SECURITY STAFF



A ROBUST, FULLY SELF-CONTAINED SOLAR LIGHTING KIT, THE ceNdor INDUSTRY Kit4 PROVIDES OVER 8 HOURS* OF LIGHTING PROVIDED BY ITS FOUR LIGHTS. THE TWO SOLAR MODULES GENERATE ELECTRICITY DURING THE DAY WHICH IS STORED IN THE BATTERY RECHARGEABLE. THE USER CAN SIMPLY ADD FURTHER SOLAR MODULES, BATTERIES AND LIGHTS, UP TO A TOTAL MAXIMUM OF 150WP OF SOLAR MODULES, IN ORDER TO INCREASE POWER TO HOUSEHOLD APPLIANCES SUCH AS TV, RADIO, FANS AND OTHERS. THE KIT COMES COMPLETE WITH TOOLS, CABLES, MOUNTING BRACKETS AND FIXINGS. SIMPLE TO INSTALL WITH STEP-BY-STEP INSTRUCTIONS, THE SYSTEM PROVIDES A LOW COST RELIABLE AND EXPANDABLE SOLAR SYSTEM, SUITABLE FOR MANY APPLICATIONS.

★ BATTERY SUPPLIED SEPARATELY

SYSTEM COMPONENTS SOLAR MODULES (30-PS) FEATURES: • TWO 30 WATT SOLAR MODULES

- COMPLETE WEATHER PROTECTION • EASILY MOUNTED • PROTECTION FROM DAMAGE
- CRYSTALLINE TECHNOLOGY • REPETITIVE THERMAL CYCLING BETWEEN -40°C AND +90°C
- REPETITIVE CYCLING BETWEEN -40°C AND +85°C AT 86% HUMIDITY
- WIND LOADING EXCEEDING 256KM/H • IMPACT OF 25MM HAIL AT TERMINAL VELOCITY (52MPH)
- UPTO 24 TO 30 YEARS EFFICIENCY WARRANTY

SOLAR POWER CHARGE CONTROLLER FEATURES: • 12 VOLT • LIGHTNING PROTECTION

- REVERSE POLARITY PROTECTED • BATTERY OVERLOAD PROTECTION • REVERSE DISCHARGE PREVENTION
- LOW POWER CONSUMPTION • STATUS INDICATION 4 LED • RESET SWITCH
- LIGHTS LUMINA FEATURES: • FOUR HIGH EFFICIENCY COMPACT FLUORESCENT LAMPS (4 PIN)
- 12 DC INPUT • LOW CURRENT • INTEGRAL SWITCH • SUPPLIED WITH 9WATT LAMP, WILL OPERATE 7, 9 OR 11 WATT LAMPS • ATTRACTIVE DESIGN





SOLAR SYSTEM HOME KIT

SOLAR HOME SYSTEM WITH

- 4 LIGHTS
- MOBILE & LAPTOP CHARGERS,
 - LED TV
 - FAN (DC)
- SOLAR COOLER





WHAT IS A SOLAR PUMP

A SOLAR PUMP IS AN APPLICATION OF PHOTOVOLTAIC TECHNOLOGY WHICH CONVERTS SOLAR ENERGY INTO ELECTRICITY TO RUN MOTOR AND PUMP. THE MOTOR POWERED BY SOLAR ENERGY DRAWS WATER OUT OF BOREWELL , RIVER, LAKE OR POND.

SOLAR WATER PUMP WORKING PROCEDURE

THE PHOTO-VOLTAIC CELLS IN SOLAR MODULES CONVERT SUNLIGHT INTO DIRECT CURRENT (DC) ELECTRICAL ENERGY. THIS ENERGY IS FED TO THE PUMP VIA PUMP CONTROLLER IN CASE OF DC PUMP OR VIA VARIABLE FREQUENCY DRIVE (VFD) IN CASE OF AC PUMPS (VFD CONVERTS DC INTO ALTERNATIVE CURRENT (AC)). PUMP SYSTEM IS A COMBINATION OF AN IMPELLER AND A MOTOR; THE IMPELLER PROPELS WATER MOVEMENT AND THE MOTOR DRIVES THE PUMP. THE WATER IS PROPELLED OUT OF THE BOREWELL / RIVER / LAKE / POND THROUGH THE PIPE; WATER CAN THEN BE FED TO THE FIELDS FOR IRRIGATION AND OTHER PURPOSES. WATER OUTPUT VARIES DURING THE DAY WITH VARYING SOLAR IRRADIANCE.



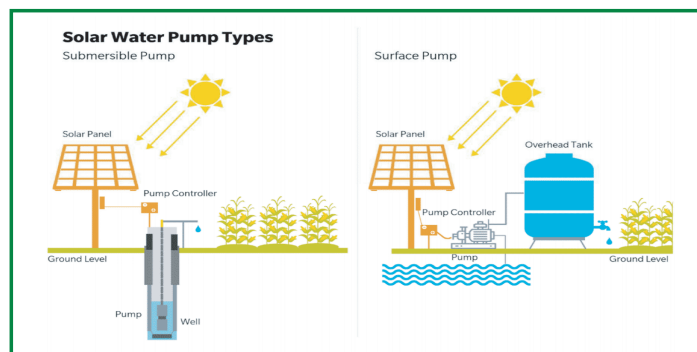
SOLAR PUMPING FEATURE:

1. NO DEPENDENCE ON ERRATIC GRID POWER AND SAVING ON EXPENSIVE DIESEL.
2. HIGHER YIELD DUE TO CROP IRRIGATION DURING DAY TIME WHEN CROP GETS ALL THE NECESSARY INGREDIENTS-SUNLIGHT AND WATER.
3. WATER OUTPUT ACROSS ALL SEASONS TO CULTIVATE MULTIPLE CROPS EVERY YEAR.
4. ONE TIME INVESTMENT AND THEN ZERO RUNNING COST (FREE SUNLIGHT) FOR MANY YEARS TO COME.
5. EASY FOR FARMER TO CULTIVATE THE LAND DURING DAY TIME RATHER THAN NIGHT TIME WHEN GRID IS ERRATIC.



6. DRIP AND SPRINKLER SYSTEMS CAN BE CONNECTED WITH SOLAR SYSTEM TO FURTHER IMPROVE CROP YIELD.
7. SOLAR SYSTEM NEEDS NO MAINTENANCE EXCEPT REGULAR CLEANING OF THE MODULES—NO CONSUMABLES; EASY TO OPERATE.
8. AS THE WATER CAN BE HARNESSSED ANY TIME IN DAY, THE USER CAN PLAN HIS OTHER ACTIVITIES IN THE DAY – INDEPENDENTLY.
9. CONTRIBUTION IN REDUCTION OF CARBON EMISSION, CONTRIBUTING TO REDUCTION IN POLLUTION.

WHAT DOES AGRICULTURE SOLAR PUMP SYSTEM CONSIST OF



- SOLAR PV MODULES WITH 25 YEARS POWER WARRANTY
- GALVANIZED IRON MODULE MOUNTING STRUCTURES WITH A PROVISION TO ADJUST MODULE TOWARDS SUN 3 TIMES IN A DAY. THIS CAN WITH STAND SPEED OF 150KM/HR
 - PUMP CONTROLLER (IN DC) OR VARIABLE FREQUENCY DRIVE (IN AC PUMP)
 - SOLAR PUMP MOTOR SET (DC / AC) MADE OF STAINLESS STEEL WHICH REMAINS RUST-FREE. CAST IRON PUMP AVAILABLE AS PER REQUEST
 - SUITABLE ACCESSORIES - PIPE, CABLE, ROPE ETC
 - REMOTE MONITORING OPTION AVAILABLE ON REQUEST
- WARRANTY AGAINST MANUFACTURING DEFECT ON PUMP, CONTROLLER, MODULE AND PUMP KIT.



SOLAR WATER HEATING SYSTEMS (SWHS)

WE ARE BLESSED WITH SOLAR ENERGY IN ABUNDANCE AT NO COST. THE SOLAR RADIATION INCIDENT ON THE SURFACE OF THE EARTH CAN BE CONVENIENTLY UTILIZED FOR THE BENEFIT OF HUMAN SOCIETY.

ONE OF THE POPULAR DEVICES THAT HARNESS THE SOLAR ENERGY IS SOLAR HOT WATER SYSTEM (SHWS). SOLAR WATER HEATERS ARE USED TO HEAT WATER GLOBALLY WHERE RETURN OVER INVESTMENT IS ACHIEVED WITHIN A TIME SPAN OF 2 YEARS ONLY.

1. EVACUATED TUBE COLLECTORS (ETC)

ETC SYSTEM WORKS ON A SIMPLE PRINCIPLE 'BLACK BODY HEAT ABSORPTION PRINCIPLE'.

SOLAR WATER HEATING SYSTEMS USING VACUUM TUBES MADE OF BOROSILICATE GLASS WITH SPECIAL COATING TO ABSORB THE SOLAR ENERGY. AIR BETWEEN THE GAPS OF TWO GLASS TUBES IS EVACUATED. IT RESULTS IN HIGH LEVEL OF VACUUM, WHICH ACTS AS THE BEST INSULATION TO MINIMIZE THE HEAT LOSS FROM INNER TUBE. THE BLACK COATING ON THE INNER TUBE ABSORBS THE SOLAR ENERGY AND TRANSFERS IT TO THE WATER. THE WATER ON UPPER SIDE OF VACUUM TUBE BECOMES HOT AND THUS LIGHTER, SO IT STARTS MOVING UPWARDS IN THE TANK. AT THE SAME TIME COLD WATER, WHICH IS HEAVY, COMES DOWNWARD FROM THE TANK AND IS STORED AT THE BOTTOM.

2. FLAT PLATE COLLECTORS (FPC)

COVERED ON THE TOP WITH 3.2 MM THICK TEXTURED –TOUGHENED GLASS SHEET. INSIDE FLAT PLATE COLLECTOR SYSTEMS ARE SPECIALLY DESIGNED TO MEET EVERY SITE AND EVERY INDUSTRY CONDITION. THE SOLAR RADIATION IS ABSORBED BY FLAT PLATE COLLECTORS WHICH CONSIST OF AN INSULATED OUTER ALUMINIUM BOX, THERE ARE BLACKENED METALLIC ABSORBER (SELECTIVELY COATED) SHEETS WITH BUILT IN CHANNELS OR RISER TUBES MADE FROM COPPER TO CARRY WATER. THE ABSORBER ABSORBS THE SOLAR RADIATION AND TRANSFERS THE HEAT TO THE FLOWING WATER. IN THERMOSYPHON SYSTEM PUMP IS NOT REQUIRED FOR CIRCULATION; HOWEVER A CIRCULATION PUMP IS REQUIRED IN A FORCED FLOW SYSTEM.

ETC →



← FPC



SOLAR SYSTEMS INSTALLATION SERVICES

ceNdor INDUSTRY COMPLETELY SOLAR SYSTEM INSTALLATION IN REMOTE LOCATIONS ENTIRE INDIA, WHERE THE SUN'S ENERGY IS ABOUND, SOLAR POWER GENERATION CAN BE THE IDEAL SOLUTION AS AN ALTERNATIVE SOURCE OF ENERGY POWER APPLICATION SUCH AS MOBILE AND LAND SYSTEM.

ELECTRIC ITEM (TV, FRIDGE, AC, STREET LIGHT, WATER PUMP AND EV CHARGING POINT) TRANSMITTERS AND WHOLE VILLAGE ELECTRIFICATION, ceNdor INDUSTRY SAID **SAVE THE NATURE, SAVE THE EARTH MISSION** POLLUTION FREE OUR NATURE. ceNdor INDUSTRY PROVIDE ALL TYPE DESIGN OF SOLAR SYSTEM AND IMPLEMENTATION OF SUCH SYSTEM IN REMOTE AREA, BUT ALSO MANUFACTURE SOME PRODUCT AND SUPPLIES THE MAJORITY OF THE ELEMENTS LIKE SOLAR PANELS, CHARGE CONTROLLER, SOLAR BATTERIES, WIRES , SOLAR SYSTEM STRUCTURE AND SOLAR INVERTERS ETC.



OVER 23 YEARS EXPERTISE FROM OUR EXPERIENCED TEAM (TECHNICAL TEAM) OF ENGINEERS, ceNdor INDUSTRY SOLAR DESIGNS, PRODUCES AND SOLAR EQUIPMENT , CUSTOM-MADE SOLAR SYSTEMS FOR SMALL DOMESTIC (HOME) ENVIRONMENTS, AS WELL AS LARGE COMMERCIAL ENVIRONMENTS.

ceNdor INDUSTRY CAN PROVIDE A COMPLETE SERVICE, SUCH AS LOAD REQUIREMENT ANALYSIS, SOLAR ARRAY SIZING, BATTERY SELECTION, CHARGE CONTROLLER SELECTION, SOLAR SUPPORT STRUCTURE DESIGN, SYSTEMISATION, CABLING, AND FIXTURES AND FITTING. IN ADDITION, ceNdor INDUSTRY CAN SUPPLY AND INSTALL ALL COMPONENTS FOR THE SYSTEM FROM THE GROUND UP TO SYSTEM COMMISSIONING, MONITORING AND MAINTENANCE.

COMPLETE SOLAR INSTALLATION FOR:

- REMOTE AND HARD TO REACH LOCATIONS IN INDIA
- SMALL AND LARGE WHOLE VILLAGE/TOWN ELECTRIFICATION IN INDIA



Centillionaires Ardor Industry Pvt Ltd
is Awarded in
International Glory Award 2021

**"THE MOST TRUSTED START UP
SOLAR COMPANY IN DELHI"
By **MR SONU SOOD****

Place: Resort Park Regis, Goa

WOMEN ENTREPRENEUR AWARD in
महिला कृषक सम्मान 2021

FOR RURAL DEVELOPMENT
IN SOLAR ENERGY
by Honourable State Minister

SHRI KAILASH CHAUDHARY

Place: Akhil Hindu Mahasabha Bhawan, Delhi



Place: Radisson Blu, Delhi

Global Business Icons India 2021

**"EMERGING STARTUP
OF THE YEAR"**

By - Mr. KL Ganju, Advisor to the
Foreign Minister Union of Comoros,
President of HCCD (Honorary
Consular Corps Diplomatique-India).

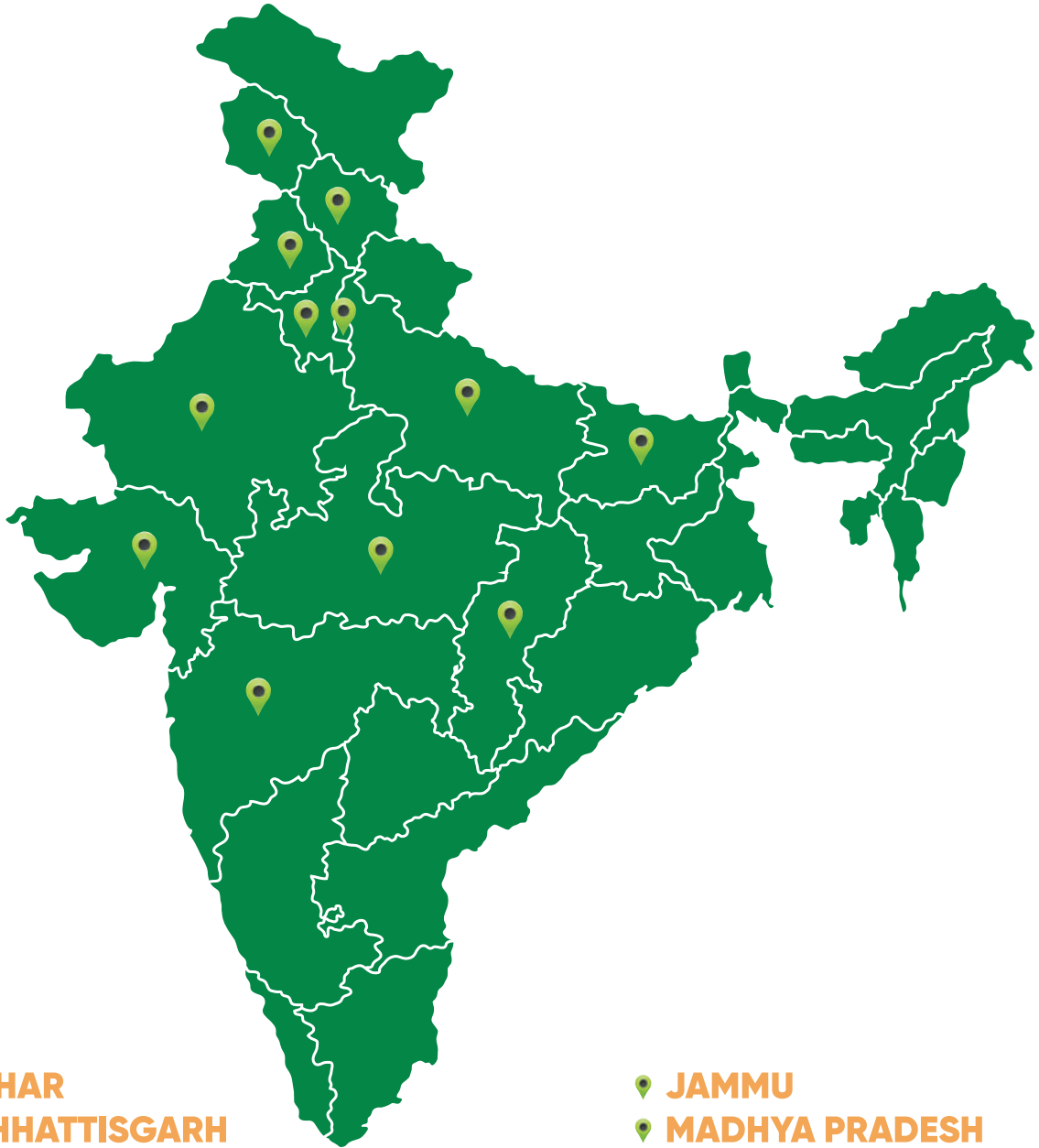
MEET OUR TEAM



ceNdor industry

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Azadi Ka
Amrit Mahotsav



- 📍 **BIHAR**
- 📍 **CHHATTISGARH**
- 📍 **DELHI**
- 📍 **GUJRAT**
- 📍 **HARYANA**
- 📍 **HIMACHAL PRADESH**

- 📍 **JAMMU**
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- 📍 **UTTAR PRADESH**

For ceNdor industry Team's contact details, Please visit our website

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**LET'S COME TOGETHER TO SAVE THE ENVIROMENT
AND MAKE GREEN ENERGY AS NEW NORMAL**

THANKS FOR VISITING US