

1. 1KW SOLAR POWER PLANT

Model: BN-SPT



Technical Specifications:

1.01	Solar PV Module	250 Watt	4 Nos.
1.02	Solar Inverter (Hybrid)	1250VA,24V Inverter	1 Nos.
1.03	Solar battery	12V, 150 Ah	2 Nos.
1.04	Mounting Structure for solar panel		4 Nos.
1.05	Wire(Copper)	6 Sq.mm	As per Req.
1.06	Energy meter	1ph,240volt,5-30amp, 50hz,class1	1 No.
1.07	AC load(Lamp)	100watt,240 volt	5 nos.
1.08	Lamp Holder	230v,6Amp	5 nos.
1.09	Junction Box	PVC/ Plastic	As per Req.
1.1	DC volt meter	0 to 300V DC, Digital	2 Nos.
1.11	AC volt meter	0 to 300V AC, Digital	2 Nos.
1.12	DC ammeter	0 to 30 Amp DC, Digital	2 Nos.
1.13	AC ammeter	0 to 30 Amp AC, Digital	2 Nos.
1.14	AC load	500W	1 No
1.15	Battery box	2000W	2 Nos.
1.16	DC load kit	-	-

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2. 15 WATT SOLAR STREET LIGHT



Technical Specifications:

2.01	Solar PV Module	50Watt	1 no.
2.02	Solar battery	12V, 40 Ah	1 no.
2.03	"Solar Street light charge controller (MPPT/PWM)"	12v, 6A	1 no.
2.04	LED street light with stand	15Watt	1 no.
2.05	Wire(Copper)	2.5 Sq.mm	As per Req.
2.06	Dc volt meter	0 to 300V DC, Digital	1 No
2.07	Dc ammeter	0 to 30 Amp DC, Digital	1 No
2.08	Battery box	PVC/ Plastic	As per Req.
2.09	Mounting Frame	As per Standard	1 no

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3. SOLAR TRAINER KIT

Model: BN-SKT



Technical Specifications:

SOLAR TRAINER MAIN RACK

3.01	DC Application panel	12v LED lamp and DC fan	1 No.
3.02	DC voltmeter & DC Ammeter panel	DC voltmeter (0-50V), DC ammeter (0-5A) with polarity protection diode.	1 no.
3.03	Stand-alone Inverter Panel	"I/P DC voltage-10-15Vdc, O/P AC voltage- 230Vac O/P power rating- 210 VA"	2 Nos.
3.04	MPPT Charge Control Panel	"Rated voltage- 12Vdc, Max current- 6A,Max PV voltage-15V.Min PV voltage-10V, Battery rated voltage- 12V, Capacity- 7Ah , Battery type- Lead acid"	1 No.
3.05	Lamp load panel	"230V/15/40/60/100W x 3 bulbs with individual ON/OFF using 6A toggle switches."	1 no.
3.06	PWM Charge Control Panel	"Max PV voltage-15V , Min PV voltage- 10V,Battery rated voltage- 12V, Capacity- 7Ah , Battery type- Lead acid"	1 No.

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3.07	AC voltmeter & AC ammeter panel	Voltmeter: 300V, Ammeter: 0.5A	1 No.
3.08	Rheostat as load for SPV modules	0-600E	1 No.
3.09	Solar simulator	For Solar Trainer Kit	1 No
3.10	Instrumentation power supply cum multichannel DPM panel	As per Standard	1 No

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4. SPV Stand 1

Technical Specifications:

4.01	single phase input panel	1Phase dual MCBs of 2Amp for short circuit protection. Lamp load(30w)	1 No.
4.02	Dimmer Panel	"Dimmer 1no. To set intensity of halogen lamp. 500watt Halogen lamp 1 no. to simulate sun light in laboratory."	1 No.
4.03	SPV panel	20 watt	1 No.

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5. SPV Stand 2

Technical Specifications:

5.01	single phase input panel	1Phase dual MCBs of 2Amp for short circuit protection. Lamp load(30w)	1 No.
5.02	Dimmer Panel	"Dimmer 1no. To set intensity of halogen lamp. 500watt Halogen lamp 1 no. to simulate sun light in laboratory."	1 No.
5.03	SPV panel	20 watt	1 No.

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6. Mono crystalline stand

Technical Specifications:

6.01	Single phase input panel	1Phase dual MCBs of 2Amp for short circuit protection. Lamp load(30w)	1 No.
6.02	Dimmer Panel	"Dimmer 1no. To set intensity of halogen lamp. 500watt Halogen lamp 1 no. to simulate sun light in laboratory."	1 No.
6.03	SPV panel	20 watt	1 No.

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7. SPV cell Stand

Technical Specifications:

7.01	Instrumentation power supply cum DPM panel	"(+12V, -12V, @500 mA. & +5V@300 mA). Multi channel DPM for temperature display. F7720 pin FRC power bus to supply power to neighboring" multichannel	1 no.
7.02	SCR actuator cum sensor signal conditioning panel	SCR based AC controller to set intensity of halogen lamp. Supports signal conditioning circuit for temperature to give output 0- 2.5Vdc.	1 no
7.03	Single phase input panel	"1Phase dual MCBs of 2Amp for short circuit protection. Lamp load(30w)"	1 no
7.04	Dimmer Panel	"Dimmer 1no. To set intensity of halogen lamp. 500watt Halogen lamp 1 no. to simulate sun light in laboratory."	1no
7.05	Solar cell experiment panel	"Mounted on horizontal member. 50 x 50 mm x 2 nos. crystalline silicon solar cells (3V/150mA) mounted in aluminium tray with heatsink and fan. Loading pots (500E and 5K). Series & parallel combination arrangement. Optionally cell temp controlled by Peltier module (40W), Foiltype Pt100 sensor to measure temperature, 12Vdc cooling Fanto maintain heat sinktemp (Range 15 C - 75 C)."	1 no

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8. Electroscope

Technical Specifications:

8.01	Electroscope	2 Input	1 No.
8.02	Battery(SMF)	12 volt, 42 Ah	2 no.
8.03	Electrical Safety demonstrator	NV7000	2 No.
8.04	CRO	30 MHz 2 Channel	2 No.

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9. SOLAR TOOL KIT

Technical Specifications:

9.01	Digital Multimeter	DM97	05nos
9.02	Voltmeter(PMMC)	0-100V	2 Nos.
9.03	Voltmeter(MI)	0-500V	2 Nos.
9.04	Ammeter(PMMC)	0-30A	2 Nos.
9.05	Ammeter(MI)	0-30A	2 Nos.
9.06	Wattmeter(Digital)	0-1000w,Aux. supply 230v,50hz	2 Nos.
9.07	Energy meter	1ph,230volt,30amp	01 no.
9.08	P.F. Meter(Digital)	Aux. supply 230v,50hz	2 Nos.
9.09	Frequency meter	45-55hz,230 volt	2 Nos.
9.10	Solar Power Meter(TES1333)	2000W/Mtr sq.	01 No.
9.11	Hydrometer	SP.GR-1100-1300	2 Nos.
9.12	Motorized Megger	230v,50Hz	01 No.
9.13	Soldering Iron	25watt,230 volt	03 Nos.
9.14	Soldering flux	15gms	03 Nos.
9.15	Solder	40/60	03 Nos.
9.16	Desoldering gun		02 Nos
9.17	Blow lamp	0.5 Ltr.	01 No.
9.18	SMF Battery	12V,7Ah	02 nos
9.19	Florescent tube light with stand	40watt	02nos
9.20	"Florescent tube light choke (electronics,Manual) & Starter"	40watt,230-250 Volt	Each 02 nos
9.21	Lamp (AC)	10w,15w,100w	Each 05 nos
9.22	Lamp (DC)	10w,12volt	03 Nos.
9.23	Solar sterreet light Charge Controller	12volt,10Amp.	01 No.
9.24	One way switch	230volt,6amp	10 nos
9.25	Two way switch	230volt,6amp	10 nos
9.26	Lamp Holder	230volt,6amp	05 nos.
9.27	Push Buttom switch(NO)	230volt,10amp	10 nos
9.28	Push Buttom switch(NC)	230volt,10amp	10 nos
9.29	Double ended flat spanner	"6x7,8x9,10x11,12x13, 14x15,16x17,18x19,20x22"	Each 1 No.
9.30	Double ended ring spanner	"6x7,8x9,10x11,12x13, 14x15,16x17,18x19,20x22"	Each 1 No.
9.31	Combination Plier	15cm	2 Nos.
9.32	Side cutting Plier	15cm	2 Nos.
9.33	Nose plier	15cm	2 Nos.
9.34	Electrician Knife	15cm	2 Nos.
9.35	Wire stripper	13cm	2 Nos.

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9.36	Neon tester	500volt	2 Nos.
9.37	Allen Keys	"1.5mm,2mm,2.5mm, 3mm,4mm,5mm,6mm, 8mm,10mm"	1set
9.38	Hacksaw frame with blade	15cm	1 No.
9.39	Hand crimping plier(wire lug)	0.5-16mm dia	1 No.
9.40	Taparia Screw driver set	Five Blades including poker,Elect.With Neon Bulb,500v	02 nos
9.41	Screw driver(Multi)	15cm,30cm	Each 2 Nos.
9.42	Measuring Tape	3mtr	1 No.
9.43	Centre punch	10cm	1 No.
9.44	Standard wire gauge7/0	0.500inches,12.700mm	1 No.
9.45	Vanier Caliper	0.2 LC	1 No.
9.46	Chisel	10cm	1 No.
9.47	Hand Drill machine	300watt,230v	1 No.
9.48	Plumb bob	200gm	1 No.
9.49	Sprit level	30cm	1 No.
9.5	Flat file(Second cut)	15cm	1 No.
9.51	Round file(Second cut)	15cm	1 No.
9.52	Triangle file(Second cut)	15cm	1 No.
9.53	PVC mallet	20mm dia	1 No.
9.54	Ball pin hammer	250gm	1 No.
9.55	Safety shoe	Std.	1 pair.
9.56	Nose mask	Std.	1 No.
9.57	Safety Goggles	Std.	1 No.
9.58	Ear plug	Std.	1 No.
9.59	PVC hand gloves	Std.	1 pair.
9.60	Cotton hand gloves	Std.	1 pair.
9.61	Chemical resistant rubber gloves	Std.	1 pair.
9.62	Reflective jacket	Std.	1 No.

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10. Other training instrument

Technical Specifications:

10.01	Solar lantern	3 Watt	1 No.
10.02	Solar Cooker	Standard Size (3 Utencils)	1 No.
10.03	Solar pannel	10 watt, 20watt,50 watt	Each 1 No.
10.04	Rheostat	110 ohms,5Amp &220 ohms, 2.5Amp	Each 1 No.
10.05	Solar Water Heater	Capacity- 100 LPD, No of Tubes-10	1 Set
10.06	"Solar submersible pump with pannel (900 watt)"	1HP, AC Pump	1 No
10.07	VFD controller	For 1HP Pump	1 No
10.08	Solar submersible pump with pannel(900 watt)	1HP, 30-85V DC	1 No
10.09	Learning Material	"LMS based learning for 20 Nos. Students learning facility, AR based learning facility and one set	1 No

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