

**TECHNICAL SPECIFICATIONS OF SOLAR PV SYSTEMS
AT PANCHAYAT SAMITIES.**

REIL proposes 2240 Wp SPV Power Pack for running following loads for the duration shown against each equipment. The system is a Solar PV Hybrid systems having facility for charging through SPV & AC mains.

SR.NO	DESCRIPTION OF LOAD	QUANTITY (NOS.)	DURATION (HOURS)
1	Computer	10	6
2.	LAN	1	6
3.	Printer	1	1

Technical details:

SPV Modules	:	SPV Modules of total 2240 Wp capacity. The modules shall be Crystalline Silicon type fitted with bypass diodes.
Module mounting structure	:	1 set suitable to accommodate 2240 Wp SPV array. The structure shall be made duly galvanized to avoid corrosion with anti theft features.
Inverter Cum Charge Controller	:	The inverter shall be DSP Sine Wave Inverter (96V) input / 230V single phase output). The capacity of inverter shall be 4.0 K VA, suitable for charging through grid. A suitable 96 V DC input charge controller to charge the Battery from 2240 Wp PV Array. The Charge Controller shall be Solid State PWM charger. Protection against short circuit, Reverse current flow from battery and reverse polarity shall also be provided.
Battery Bank	:	The capacity of the battery Bank shall be 96 V 300 AH. The battery bank shall be of tubular Positive plate (suitable for solar applications) of Exide or equivalent make.
Junction Boxes	:	Dust and vermin proof to provide termination of cables along with tags.
Wires, cables & tags etc	:	Suitable length of cable shall be provided for interconnection of modules, inverter, charge controller, battery bank etc.

TECHNICAL SPECIFICATIONS OF SOLAR PV SYSTEMS**AT GRAM PANCHAYAT**

REIL proposes 1120 Wp SPV Power Pack for running following loads for the duration shown against each equipment. The system is a Solar PV Hybrid systems having facility for charging through SPV & AC mains.

SR.NO	DESCRIPTION LOAD	OF	QUANTITY (NOS.)	DURATION (HOURS)
1	Computer		5	6
2.	LAN		1	6
3.	Printer		1	1

Technical details:

SPV Modules	:	SPV Modules of total 1120 Wp capacity. The modules shall be Crystalline Silicon type fitted with bypass diodes
Module mounting structure	:	1 set suitable to accommodate 1120 Wp SPV array. The structure shall be made duly galvanized to avoid corrosion with anti theft features.
Inverter Cum Charge Controller	:	The inverter shall be DSP Sine Wave Inverter ((48 V) input / 230V single phase output). The capacity of inverter shall be 2.0 K VA, suitable for charging through grid. A suitable 48V DC input charge controller to charge the Battery from 1120 Wp PV Array. The Charge Controller shall be Solid State PWM charger. Protection against short circuit, Reverse current flow from battery and reverse polarity shall also be provided.
Battery Bank	:	The capacity of the battery Bank shall be 48V,300AH. The battery bank shall be of tubular Positive plate (suitable for solar applications) of Exide or equivalent make.
Junction Boxes	:	Dust and vermin proof to provide termination of cables along with tags.
Wires, cables & tags etc	:	Suitable length of cable shall be provided for interconnection of modules, inverter, charge controller, battery bank etc.