

TECHNICAL SPECIFICATION OF SOLAR LAMP

Technical Specification:-

S.N.	Denomination and norms	Final specifications
1	General	The distribution of solar lamps to victims is essential in order to improve security, and provide better living conditions at victim locations: - a) Indoor and outdoor environments (fit for purpose). b) in tents or other type of shelters. c) Alternatively, as personal light.
2	Design:	a) The design should come with a separate charging device. b) Compact packaging. c) To ensure longer life span of the product replaceable battery function is required.
3	Battery type:	Solar Rechargeable, replaceable, and high-quality lithium -ion or equivalent battery
4	Light Emitting Diodes (LED):	Indigenous manufacture.
5	Light output:	1. Minimum 1100 Lumen (luminescence) brightness with 03 Nos of 2 W rainproof bulbs each with 05 meters of wire with controlling on/off switch 2. Off grid minimum 6 W solar plate with 5200 MAH battery
6	Autonomous time (Running time):	1) Based on charging on direct sunlight for 8 hours, 2) The product has to work minimum 8 hours on full power. 3) Battery capacity -should maintain minimum of 5 hours capacity after 3 years at full power. 4) Charging time- 4 to 5 hrs. 5) Backup- 6 to 8 hrs
7	Viewing angle:	120 degree to 180 degree
8	Light colour:	White/warm white.
9	(IP Certificate):	Minimum IP 65
10	Weight:	Maximum 1.5 kg
11	Volume:	Lowest volume possible is preferred by purchaser in order to maximize the effectiveness of packing and palletizing
12	Warranty:	1 year from purchase.
13	Life Span:	05 years of the whole lamp
14	Working Temperature:	The product has to work between -10 degrees to 50 degrees Celsius. Shall be resistant to tropical weather conditions (high humidity, extreme temperature changes, dust, etc.)

15	Fixation\Hanging and Security System:	Multiple options to hang, to fix or to secure the lamps are preferred in order to maximize efficiency. Built-in anti-theft or disabling design should be there.
16	Required Supporting Documentation:	<ul style="list-style-type: none"> • Instruction manual (in English, and Hindi languages, with visual illustration by pictograms) • Data sheet (containing complete information regarding specifications, testing, performance)
17	Other features:	<ol style="list-style-type: none"> 1) USB port for Mobile charging 2) Solar and electric charging 3) Overcharging and discharging protection 4) This product will be tested to provide lighting and to charge mobile phones at the same time by both mains and solar electricity
18	General	<ol style="list-style-type: none"> 1)Supplier should produce a valid test report from Central Govt./NABL/ILAC Lab to prove conformity to the specification, feature & functional parameters of equipment. 2)The confirmation that the stores are meeting the specification should be supported by adequate Documents/Literature etc. 3)These Documents of all stores offered be numbered and all appendices and the numbering may be in continuation 4)Supplier should provide all kinds of after sale services as per the prescribed life of the product 5)The bidder shall have the right to get the Lamp tested as it may deem fit from any accredited Lab/Institutions at the cost of bidder