



Technical Specifications

Technical Specification details:

1. Laptop Specification:

Details		Bidder's Offer (must specified by Bidder)
Display	15.6 Inch HD LED Backlit Display with True-life/1366x768px	
Processor	Intel core i3 4 th Gen/1.7 GHz	
RAM DDR3	4GB	
HDD Capacity	1TB	
Graphics Processor	Intel Integrated HD Graphics	
Ports	2 x USB 2.0, 1 x USB 3.0, 1xHDMI/VGA, 1xRJ45 Ethernet, Headphone and Speaker port	
Connectivity	Wi-Fi 802.11b/g, Bluetoothx4.0, Ethernet10/100 LAN	
Multimedia	Laptop in-build Speakers, Microphone, Webcam	
Accessories	Disk Drive: CD/DVD Writer/ Carrying Case, Power Adaptor, External USB Optical Scroll Mouse/ /Keyboard/ Touchpad/ Bag	
Operating System	Windows 10 64 bit	
Warranty	One year for parts and service	
Additional Speaker	1 Set	

2. Tablet Specification:

Details		Bidder's Offer (must specified by Bidder)
Display:	7 inches TFT (800x1280pixels)157ppi	
CPU:	1.5GHz Quad-Core Processor	
OS:	Android 5.1 (Lollipop)	
Primary Camera:	5MP,2592x1944pixels,autofocus	
Front Camera:	2MP	

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RAM:	1.5 GB	
Storage:	16GB expandable upto 200GB micro SD	
Connectivity:	Micro-SIM, Wi-Fi 802.11b/g/n, Bluetooth 4.0, 4G LTE	
Sensors:	Accelerometer	
Battery:	4000/5000mAh Non-removable	
Warranty	1 Year	

3. Projector Specification:

Details		Bidder's Offer (must specified by Bidder)
Projection System:	Single Chip DLP LVDS	
Native Resolution:	SVGA(800x600 dpi)	
Brightness (ANSI Lumens Max.):	3200	
Contrast Ratio Mode:	10000:1 Typical (Full On/Full Off)	
Quick Shutdown:	Yes	
Aspect Ratio:	4:3	
Lamp type/life:	5000 up to 10000 hrs	
User-Replaceable Lamp:	Top-loading	
Projector Lens:	F-Stop: F/2.41~2.55	
Focal length	f=21.8~24mm	
Lens Offset:	115±5%	
Throw Ratio:	1.95(wide)-2.15(tale)	
Projection Distance:	1.2m~10.0m(3.94ft~32.81ft)	
H sync Frequency:	15K-100KHz	
V sync Frequency:	50-85Hz	
Keystone Adjustment:	Manual Vertical(±40°)	
Screen Size-Diagonal:	27.5"~252.4"	
Colors:	1.07 billion color	
3D-Capable:	Yes	
Mounting Options:	Front/Rear/Ceiling/Tabletop	
Power supply	AC 100 to 240V, 50 to 60 Hz	
Warranty	1 Years Parts/labor; 1 Year or 2000hr of lamp life	

4. External Laptop Speaker Specification:

USB Connectivity. Audio Power Output-1.2 Horsepower.
Number of Channels-2.0


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Built-in Controls
 90 Hz - 20 kHz Frequency Response
 USB cable (1.2 m)
 Power Output: 0.6 Watt

SOLAR SYSTEM Specification

1. 12 Volts - 150 Watt Solar Panel

S.N.	Description/Specification		Specifications Offered with Compliance	Reference Document (Specify Document)
1	Manufacturer Name			
2	Brand/Model			
3	Max. Power (Pmax. in Watt)	150		
4	Open Circuit Voltage (Voc)	21		
5	Short Circuit Current (Isc)	± 9.4		
6	Voltage at Pmax. (Vmpp)	18		
7	Current at Pmax. (Impp)	8.7		
8	Output Tolerance (%)	± 5		
9	Temperature Coefficient - Pmax.	-0.46% /°C		
10	Maximum Series Voltage	600 v		
11	Maximum System Voltage	700-1000 Volts		
12	Nominal/ Operating Voltage	12		
13	Solar Cells per Module	36		
14	Cell Layout	6 x 6		
15	Panel Technology	-		
16	Weight	12-16 kg		
17	Height	4-6 feet		
18	weight	2-3 feet		
19	Performance Warranty	25 years A+ Grade		


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2. Battery

S.N.	Description/Specification	Specifications Offered with Compliance	Reference Document (Specify Document)
1	Manufacturer Name		
2	Brand/Model		
3	Battery Type : Lead Acid Sealed- Gel Tubular VRLA solar deep cycle or Lithium ion with proper protection		
4	Battery Voltage : For Lead Acid battery: 12V For Lithium Ion battery the bidder must propose the voltage compatible to system		
5	Battery Efficiency: Minimum 85%		
6	Quantity (mention capacity) Individual battery must be of at least..... (<i>Capacity must be selected as per the type of solar street light mentioned in table 1</i>)		
7	Pressure Regulation The battery shall be provided with pressure regulation valve, which shall be self-re-sealable and flame retardant		
8	Self Discharge less than 3% per month		
9	Operating Temperature -5 °C to 55°C		
10	Instruction Charging instructions shall be provided along with the batteries		
11	Warranty 5 years replacement guarantee.		
	Construction For Lead Acid Battery: Positive Plate: Tubular Plate with lead or alloy spine grid. Separator: Micro porous synthetic separator Electrolyte: Sulphuric acid. VRLA Terminals: Epoxy sealed terminals with threaded lead-plated copper alloy		
	Battery Life Cycle: At least 1500 at 80%		

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The following minimum information must be included on the label of the battery and label of battery must be fixed firmly or screen printed on the battery casing

- Brand and name of Manufacturer
- Model and type
- Rated capacity in Ampere-hours
- Nominal Voltage

3. Charge Controller

S.N.	Description/Specification	Specifications Offered with Compliance	Reference Document (Specify Document)
3.1	Manufacturer Name		
3.2	Brand/Model		
3.1	Manufacturer Name		
	Type: Solar Charge Controller or Regulator		
	Control Mode For Type 1, 2 & 3- PWM or MPPT For Type 4, 5, 6 & 7 – MPPT will be preferred With Dusk to Dawn i.e., the lamp automatically switches ON after the sunset and switches OFF after sunrise. Also include at least two stage of dimming function. First stage- system should function at 100% load for six hours and second stage: system should function at 50% load for next 6 hours (with reduced illumination).		
	Working Temperature & Humidity -5 to +55 °C/35 to 85%RH (Without Condensation)		
	Protection Function Solar reverse-charging protection, solar reverse-connection protection, battery over charge protection, battery over-discharge protection, battery reverse-connection protection		
	Size The capacity of charge controller must be(Capacity must be selected as per the type of solar street light mentioned in table 1)		

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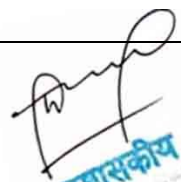


4. 1KVA Solar Inverter

S.N.	Description/Specification	Specifications Offered with Compliance	Reference Document (Specify Document)
1	Solar PCU: 1 KVA		
2	PV Charge Controller Rating: 1 KWp		
3	Nominal I/P Voltage: +24 V		
4	Input Voltage Range: 22V-30V±0.4V		
5	Low Battery Cut Off : 22.6V ± 0.4V		
6	High Battery Shutdown: NA		
7	Overload: 200% For 8 Sec		
8	THD :<5%		
9	Grid I/P Voltage Range: WW-175-285 NW-190-265±10V		
10	Charging Current :13.0A±1A		
11	Maximum I/P PV Voltage: 25V Per 12V Solar Panel		
12	Charging Current I_{max}: > 20A		
13	Bulk Voltage :28.8V±0.4V		
14	Adjustable Bulk Voltage: 53 V-60 V		
15	Float Voltage: 27V±0.4V		
16	Acoustic Noise: <60 dB		
17	Relative Humidity: 0-95% Non-Condensing		

5. WIRES

6. STANDS


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