



नेपाल सरकार  
ऊर्जा, जलस्रोत तथा सिंचाइ मन्त्रालय  
बुढीगण्डकी जलविद्युत आयोजना  
वातावरण, मुआब्जा वितरण, पुनर्वास तथा पुनस्थापना ईकाई  
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**Catalogue Shopping सम्बन्धमा ।**

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यस ईकाईलाई आवश्यक पर्ने सवारी साधन लगायत देहाय बमोजिमका सामानहरु स्विकृत वार्षिक कार्यक्रम अन्तर्गत रहि प्रचलित सार्वजनिक खरिद ऐन तथा नियमावली अनुसार (क्याटलग) विधिबाट खरिद गर्नु पर्ने भएकोले ईच्छुक उत्पादक कम्पनी वा आधिकारिक विक्रेताले आ-आफ्नो उत्पादनको आधिकारिक स्पेशिफिकेशन संलग्न राखि (क्याटलग वा ब्रोसर) मुल्य र सुविधा सहितको विवरण, गुणस्तर, निवेदन यो सूचना प्रकाशित भएको मितिले ७ दिन (कार्यालय समयसम्म) भित्र दर्ता गर्न हुन सूचना प्रकाशन गरिएको छ । निवेदनका साथ फर्म कम्पनि दर्ता नबिकरण भएको प्रमाण पत्रको प्रमाणित प्रतिलिपि र मूल्य अभिवृद्धि करमा दर्ता भएको प्रमाण पत्रको प्रतिलिपि, आर्थिक छायाँप्रति, स्थायी लेखा नं., २०७३/०७४ को करचुक्ता प्रमाण पत्रको प्रमाणित प्रतिलिपि, पेशागत कसुरमा कुनै सजाय नपाएको व्यहोराको लिखित जानकारी, अधिकृत अधिकारी / आधिकारिक व्यक्तिको हकमा अधिकृत विक्रेताको प्रमाण पत्रको प्रमाणित प्रतिलिपि समेतको विवरण अनिवार्य रूपमा पेश गर्न जानकारी गराइन्छ । विस्तृत जानकारीको लागि कार्यालयको Website [www.bghep.gov.np](http://www.bghep.gov.np) मा log in गर्न वा फोन नं. ०१०-४१६०८१ र ४१६०८४ मा सम्पर्क गर्नु हुन अनुरोध गरिन्छ ।

तपशिल

१. 4WD Jeep - १ थान
२. सोलार सिष्टम - १ सेट
३. एअर कण्डिशन - १२ थान



## Technical Specification

The bidder must be supply documentary evidence in the form of literature (catalogue). Certified dimensional, drawing and detailed description of goods essential technical information. All data, drawings, catalogues and other technical documents shall be bound separately from the bid documents.

The bidder shall provide a clause-by-clause commentary on specification, specifying agreement and variation, if any. This must be furnished; otherwise, the bid may be rejected.

### 1. Technical Specification for 4WD Jeep

#### OFFERED MODEL: -

S.N	Criteria	Requirement	Offered Specification
1.	General	<b>Five Doors Right Hand Four Wheel Drive</b> suitable for hilly rough road driving in Nepal. <b>Gross Vehicle Weight should not be less than 2500 kg</b> and shall have seating capacity for at least 7 passengers including driver.	
2.	Engine	<b>4-Stroke, water cooled Diesel Engine, developing Maximum rated power output not less than 120 PS and maximum torque should not be less than 250 N-m at governed RPM</b> , shall fully equipped with accessories for efficient full load .	
3.	Emission Standard	The emission standard of the offered vehicle must be in compliance with or superior than the applicable <b>Standard as prescribed by Nepal Vehicle Mass Emission Standard 2069(Euro-III), which is to be certified by Department of Transport Management</b>	
4.	Gauges	To include Speedometer, odometer, temperature, fuel gauges etc. as necessary for efficient operation and maintenance.	
5.	Clutch	Dry Single Plate	
6.	Transmission	<b>Manual shift at least five forward and one reverse</b> , all forward synchromesh suitable for comfort and safe driving.	
7.	Turning Radius	Not more than <b>6m</b>	
8.	Ground clearance	High ground clearance preferred, minimum 180 mm.	
9.	Suspension	Double wishbone/telescopic/shock absorber/Anti roll bar/stabilizer bar/hydraulic double acting/five link type suspension/Mac person/Multi-link/leaf spring/coil springs/torsion bar.	
10.	Tires	Standard radial size	
11.	Steering	Power assisted/steering	
12.	Brakes	Front disc type, rear drum type/disc type hydraulic operated on all wheels and parking brake.	
13.	Body/cab	Four side doors and one rear door for luggage compartment at the rear of the jeep. All metallic cab with insulated roof. Laminated / tinted glasses windscreen, front windscreen washers and wipers,	



		comfortable and adjustable seats for driver and co-passengers. Seat cover, floor mat, two sun visors, rear view mirror and two side view mirrors.	
14.	Chassis and frame	Steel, heavy duty suitable for rough road conditions with towing hook	
15.	Essential Accessories	<ol style="list-style-type: none"> <li>1. Head light, tail and rear light, reversing light and turn signals</li> <li>2. Cabin lights, ash tray</li> <li>3. Speedometer / odometer</li> <li>4. Spare wheel with tyre and tube</li> <li>5. Suitable jack with handle</li> <li>6. Air Conditioning System</li> <li>7. Central Door Locking System</li> <li>8. Air Bag Safety System</li> <li>9. Power Window System (Front &amp; Rear)</li> </ol>	
16.	Instructions	All signs instructions in the vehicle shall be in English.	
17.	Manuals	One copy of the Operator's and Owner's instructions manual in English shall be supplied.	
18.	Tools	A set of tools for general maintenance shall be supplied.	
19.	Color	Standard	
20.	Proven performance	<ol style="list-style-type: none"> <li>1. The Jeep offered shall be a current model under standard production by the manufacturer.</li> <li>2. The bidder shall provide the manufacturer's data of the performance of the unit to include the fuel consumption, performance curve of the engine and production capacity of the unit.</li> </ol>	
21.	Warranty	Manufacturer shall provide a minimum of one year warranty after acceptance	
22.	Delivery	As per Agreement.	

The major items are indicated by bold and highlighted letters / alphabets / figures in the technical specifications.

## **2. Technical specification Wall Mount Air-Conditioner:-**

- A. Type: inverter series
- B. Size: 1 Ton
- C. Manufacture Name:-
- D. Brand/Model

SN	Particular	Cooling	Heating
1	EER	12.6But/hW	12.4But/hW
2	COP	3.71W/W	3.63W/W
3	Star Rating	NA	NA
	Voltage (V)	230	



4	Electrical data	Running Current (A)	4.3	4.7
		Power Input (Kw)	0.95	1.02
5	Moisture removal		2.2 L/H	
			4.7Pt/h	
6	Air circulation (indoor/Hi)		Not less than 11.7m <sup>3</sup> /min	
			Not less than 413 ft <sup>3</sup> /min	
7	Noise Level	Indoor (H/L/Q-Lo)	Upto 43/30 db-A	
		Outdoor	Upto 56 db-A	
8	Dimension	Height	Not More Than 290(619)mm	
		Width	Not More Than 870(824)mm	
		Depth	Not More Than 200(299)	
9	Power Supply		Indoor	
10	Operating Conditions	Temperature	-5° C to 46° C	
		Voltage	230V	
		Frequency	50 Hz	
11	Pipe Extension	Charge less pipe length	7.5m	
		Maximum Pipe length	10m	
		Maximum elevation length	5m	
		Additional Refrigerant Gas	10 g/m	
11	Condenser Type		Cu	
12	Refrigerant gas		R410a	
13	Warranty		More than 4 years	
14	Operating Manual		Nepali/English language	

### **3. Technical Specification of Solar power system:-**

**System size: Not less than 5.85 KWp**

**Average Daily Electricity Production: Not less than 15 KWh**

#### **1. Solar PV Modules**

<b>SN</b>	<b>Description</b>	<b>Specification</b>
1.1	Manufacture name	
1.2	Brand/model	
1.3	Module capacity (peak power watt)	Equal or more than 325 WP
1.4	PCV Module type	Multi-crystalline or Mono or poly crystalline or thin film
1.5	Number of solar modules	As per module capacity and system size
1.6	Minimum Efficiency	More than 17%
1.7	Junction box	IP67 or above
1.8	Module mounted structure	Non corrosive support structures to be fixed.



1.9	Tilt angle and direction	Toward the south at the local latitude.
1.10	Support structure design and foundation mounting arrangements should be withstand	Wind speed up to 2400 Pa.
1.11	Fasteners (nuts and bolts)	Non corrosive or stainless steel
1.12	Certification	ISO:9001 Quality management System ISO:14001 Environmental management System

## 2. BATTERY

SN	Description	Specification
2.1	Manufacture name	
2.2	Brand/model	
2.3	Number	As per load and system size
2.4	Battery voltage	12V
2.5	Battery Efficiency	Minimum 85%
2.6	Pressure Regulation	The battery shall be provided with pressure regulation valve which shall be self-re-sealable and flame retardant.
2.7	Self-Discharge	Less than 2% per month
2.8	Operating Temperature	-1°C to 50°C
2.9	Instruction	Charging instruction shall be provided along with the batteries.
2.10	Warranty	5 years
2.11	Battery life cycle	At least 1500 at 80% DoD
2.12	Certification	

## 3. INVERTER

SN	Description	Specification
4.1	Manufacture name	
4.2	Brand/model	
	Type	On Grid Hybrid solar Inverter
4.3	Inverter Capacity	Minimum 5000W/48V MPPT Inverter
4.4	Maximum PV Array Open Circuit Voltage	145 VDC
4.5	Cell Temperature	25°C
4.6	Number	1
4.7	Nominal Output Voltage	220/230/240 VAC
4.8	Power Factor	> 0.99
4.9	Maximum Conversion Efficiency (DC/AC)	Equal or Greater than 90%
4.10	Maximum AC Input Current	Equal or more than 40A

## 4. Installation materials

## 5. Earthing and protection materials

## 6. Mounting Structures

## 7. Installation services

