Five doors Right Hand Drive 4WD diesel engine hard top Jeep Type Vehicle suitable to operate in rough and hilly road condition of Nepal with operating conditions 0.5 degree C to 50 degree C and altitude of 2000 m, Gross Vehicle Weight (GVW) of the vehicle shall not be less than 2000 kg and shall have seating capacity for at least 9 passengers including driver.

Four strokes, water cooled diesel engine, displacement of the engine 2500-3000 CC, maximum rated power output not less than 60Hp at optimum RPM and maximum torque not less than 190 Nm at governed rpm, shall fully equipped with accessories for efficient full load operation.
The Emission Standard of the vehicle should be capable of meeting applicable Nepal Vehicle Mass emission standard, which is to be certified by Department of Transport Management, Nepal.

Should include Speedometer, Water Temperature, Fuel, Oil Pressure etc as necessary for the efficient operation and maintenance.

Dry, Single plate

**High ground clearance preferred, minimum 175mm.**

Manual shift at least five forward and one reverse, all forward synchromesh.

Standard tires.

Standard, within Nepal Government regulations

Suspension

Front: Leaf spring

Rear: Leaf Spring

Brakes: Front: Disc, Rear: Disc / Drum type

Power steering

**not more than 6 m**

Minimum 55 liters

4 side door, 1 back door, all metallic cab with insulated roof, laminated/tinted glass wind screen washers and wipers, glass windows on doors, comfortable and adjustable seats for driver and passenger, front and rear seat facing front and rear side facing seats, two sun visors, rear view mirror and power / manual side view mirror

Steel, heavy duty suitable for rough road conditions with tow hook

Standard color. Shall be finalized during signing of contract agreement

All signs and instruction in the vehicle shall be in English.

One copy of the operators and owner’s instruction and maintenance manual in English to be supplied with vehicle.

The vehicle should be equipped with:

i. Head light, tail and rear light, reversing light and turn signal

ii. Cabin light

iii. Odometer / speedometer

iv. 1 spare wheel with tire and tube

v. Seat belts for drive and co-driver

vi. Tool box with all standard required tools and tackles for general vehicle maintenance.

vii. ORVM

Equipped with all accessories offered in standard model but not limited to above items.

Minimum one year warranty after acceptance to be provided by manufacturer.
Hard top of one unit of Jeep shall be made delivered to the office of Phakphokthum Rural Municipality, Ilam.

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All-wheel Drive, Heavy Duty Rigid Steel Frame with cab, suitable for operation under rough working condition & Adverse climatic condition at altitude ranging from 80 meters to 2000 meters & ambient temperature varying -5° to 50° Centigrade.

Should possess all steel enclosed cab with laminated glass windscreen, insulated roof, Suitably located controls for Backhoe (excavator) and Loader operation, rear view mirrors, cabin light, wiper & adjustable cushioned seat for operator.

Turbocharged, Water Cooled Diesel Engine developing Power Output Not Less than 85 PS (engine fully equipped with accessories) at governed RPM, Maximum Torque not less than 300N-m for efficient full load operation of the backhoe loader at operating condition. The Backhoe Loader shall be equipped with heavy duty radiator, cold starting device, direct electric starting system, heavy duty battery, heavy duty air cleaner and heavy duty fuel filter. Should be capable of performing multipurpose functions such as dozing, digging grading, back filing, grabbing, and loading application.

The Emission Standard of the equipment should be capable of meeting applicable **Nepal Vehicle Mass emission standard**, which is to be certified by Department of Transport Management, Nepal.

<table>
<thead>
<tr>
<th>Specification</th>
<th>Requirement</th>
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<tbody>
<tr>
<td>Break Force</td>
<td>Min. 3750Kgf</td>
</tr>
<tr>
<td>Lifting Capacity</td>
<td>Min. 2500 Kg</td>
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<tr>
<td>Digging depth below ground level</td>
<td>Min. 100 mm</td>
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<tr>
<td>Dump clearance</td>
<td>Min 2600mm</td>
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<tr>
<td><strong>Max Operating Height</strong></td>
<td>Min 3450 mm</td>
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<tr>
<td>Bucket Capacity</td>
<td>Min 0.25 m³</td>
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<tr>
<td>Digging force</td>
<td>Min 4200 Kgf</td>
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<tr>
<td>Digging depth from Ground level</td>
<td>Min 3800 mm</td>
</tr>
<tr>
<td>Loading Height from Ground level</td>
<td>Min 3500 mm</td>
</tr>
<tr>
<td>Side Reach from Centre</td>
<td>Min. 3950 mm</td>
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<tr>
<td><strong>Max. Operating/working height</strong></td>
<td>Min 5700mm</td>
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<tr>
<td>Overall Length (Transportation purpose)</td>
<td>At most 6250mm</td>
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<tr>
<td>Overall Width (Transportation purpose)</td>
<td>At most 2400 mm</td>
</tr>
<tr>
<td>Overall Height (Transportation purpose)</td>
<td>At most 3950 mm</td>
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<tr>
<td>Main Pump</td>
<td>Min 105 LPM</td>
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</tbody>
</table>

High ground clearance preferred, minimum 300 mm.

Shall be provided with Suitable heavy duty four tires with tubes for operating machines in rough road conditions.

Torque converter with **Fully powershift type** (At least 4 forward & 3 Reverse)

Four wheel Drive with fixed rare axle and **Minimum 18° Oscillation front axles.**

Power steering/ Power Assisted Steering

Hydraulic Actuated Disc/Caliper type service Brake & Separate Parking Brake.
Should include Water temperature, Fuel, Oil pressure, Transmission & Hydraulic gauges, Battery Charging Indicator etc. as necessary for efficient operation and Maintenance.

**Minimum 130 liters**

The vehicle should be equipped with:

i. Head (Front) lights, Side Indicators, Operating Lights for Loader & Backhoe & Fog lights.

ii. Cabin lights

iii. Odometer/speedometer/service hour meter

iv. Audio system radio/MP3/DVD/FM

Equipped with all accessories offered in standard model but not limited to above items.

One copy of the operators and owner's instruction and maintenance manual in English to be supplied with vehicle.

All signs and instruction in the vehicle shall be in English.

**Standard color. Shall be finalized during signing of contract agreement**

A set of tools as required for general maintenance shall be supplied within a lockable tool box with equipment.

Supplier shall provide necessary filters, Spare parts & Lubricant for first Servicing. Should provide comprehensive insurance cost for the first year.

Minimum one year warranty after acceptance to be provided by manufacturer.

1 (One) Unit The Backhoe loader shall be made delivered with all necessary accessories to the office of Phakphokthum Rural Municipality, Ilam, Nepal.