

# Technical Specification

**Purchaser:** Dhangadhi Sub-Metropolitan city, Dhangadhi, Kailali, Sudurpaschim Province  
**Vehicle :** Motorcycle (155 ± 5%) CC  
**Quantity:** 6 Units

S.N.	Criteria	Municipality requirement	offered Specification
1	General	Motorcycle of sturdy design, suitable for driving on rough road conditions of Nepal. <b>Kerb vehicle weight should not less than 130 Kg.</b>	Make: Model: Country of Origin: Kerb Weight:
2	Engine	<ul style="list-style-type: none"> <li>• Four Stroke, single cylinder, air cooled petrol engine</li> <li>• Displacement (155±5%) CC Developing <b>Maximum rated power output not less than 13 HP</b> at governed RPM</li> <li>• <b>Maximum rated torque output not less than 12.5 NM</b>, at governed RPM.</li> </ul>	Make: Model: Displacement: Power: Torque:
3	Gauges	To include speedometer / odometer, Turn signal indicator, neutral indicator, fuel gauge, etc. as necessary for efficient operation and maintenance.	
4	Transmission	Minimum Five speed	
5	Brake	Mechanical or hydraulic Brake. <b>Front disc, Rear disc/drum</b>	
6	Frame/Chassis	Sturdy frame and suspension with telescopic shock absorbers for front and spring loaded hydraulic or trailing arm with nitrox shock for rear. <b>Ground clearance not less than 160mm.</b>	
7	Electrical System	<ol style="list-style-type: none"> <li>1. Battery: 12V</li> <li>2. Starting system: Self and Kick</li> </ol>	
8	Essential Accessories	<ol style="list-style-type: none"> <li>1. Head light, Tail and Rear Light</li> <li>2. Turn signal lights</li> <li>3. Two rear view mirrors</li> <li>4. <b>Safety lock for steering</b></li> <li>5. <b>Helmet per unit</b></li> <li>6. Leg guard</li> <li>7. A set of tools for general maintenance</li> <li>8. <b>Fuel tank not less than 10 Ltr including reserve</b></li> </ol> <p><b>Equipped with all accessories offered in standard model but not limited to the above items.</b></p>	

9	Emission Standard	The Emission Standard of the vehicle should comply with the latest "Vehicle Mass Emission Standard" of Nepal which is to be certified by Department of Transport Management, Nepal.	
10	Instructions	All signs and instructions in the equipment shall be in English.	
11	Manuals	One copy of the Operator's, and Owner's Instructions and maintenance manual in English shall be supplied with each motorcycle.	
12	Tools	A set of tools as required for general maintenance shall be supplied with in a lockable tool box for each unit.	
13	Proven performance	1. The motor cycle offered shall be a current model under standard production by the manufacturer for at least one year. 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 etc.	
14	Warranty	Manufacturer shall provide a <b>minimum of one year warranty</b> after acceptance.	
15	Delivery	The Motorcycles shall be delivered within 15 days from the date of contract to: Dhangadhi Sub-Metropolitan city, Dhangadhi, Kailali, Sudurpaschim Province.	

**Prepared By:**

Bijay Kumar Shah  
Mechanical Engineer  
Department of Roads  
Heavy equipment Division, Godavari  
NEC No. : 340 Mechanical "A"



**Approved By:**

Chief Administrative Officer  
Dhangadhi Sub-Metropolitan city, Dhangadhi,  
Kailali, Sudurpaschim Province  
Date and Signature -

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## Technical Specification

**Purchaser:** Dhangadhi Sub-Metropolitan city, Dhangadhi, Kailali, Sudurpaschim Province.

**Vehicle :** Motorcycle (150 ± 5%) CC

**Quantity:** 2 Units

S.N.	Criteria	Municipality requirement	Offered Specification
1	General	Motorcycle of sturdy design, suitable for driving on rough road conditions of Nepal. <b>Kerb vehicle weight should not less than 125 Kg.</b>	Make: Model: Country of Origin:
2	Engine	<ul style="list-style-type: none"> <li>• Four Stroke, single cylinder, air cooled petrol engine</li> <li>• Displacement (150 ± 5%) CC</li> <li>• Developing <b>Maximum rated power output not less than 12 HP</b> at governed RPM</li> <li>• <b>Maximum rated torque output not less than 12 NM</b>, at governed RPM.</li> </ul>	Make: Model: Country of Origin:
3	Gauges	To include speedometer / odometer, Turn signal indicator, neutral indicator, fuel gauge, etc. as necessary for efficient operation and maintenance.	
4	Transmission	Minimum Five speed	
5	Brake	Mechanical or hydraulic Brake. <b>Front disc, Rear disc/drum</b>	
6	Frame/Chassis	Sturdy frame and suspension with telescopic shock absorbers for front and spring loaded hydraulic or trailing arm with nitrox shock for rear.	
7	Wheel Base	Minimum 1350 mm	
8	Dimension	Minimum L:B:H = 2050:750:1050 mm	
9	<b>Ground Clearance</b>	<b>Not less than 210 mm</b>	
10	Electrical System	<ol style="list-style-type: none"> <li>1. Battery: 12V</li> <li>2. Starting system: Self and Kick</li> </ol>	
11	Essential Accessories	<ol style="list-style-type: none"> <li>1. Head light, Tail and Rear Light</li> <li>2. Turn signal lights</li> <li>3. Two rear view mirrors</li> <li>4. <b>Safety lock for steering</b></li> <li>5. <b>Helmet per unit</b></li> <li>6. Leg guard</li> <li>7. A set of tools for general maintenance</li> <li>8. <b>Fuel tank not less than 12Ltr including reserve</b></li> </ol> <p><b>Equipped with all accessories offered in standard model but not limited to the above items.</b></p>	



12	Emission Standard	The Emission Standard of the vehicle should comply with the latest "Vehicle Mass Emission Standard" of Nepal which is to be certified by Department of Transport Management, Nepal.	
13	Instructions	All signs and instructions in the equipment shall be in English.	
14	Manuals	One copy of the Operator's, and Owner's Instructions and maintenance manual in English shall be supplied with each motorcycle.	
15	Tools	A set of tools as required for general maintenance shall be supplied with in a lockable tool box for each unit.	
16	Proven performance	1. The motor cycle offered shall be a current model under standard production by the manufacturer for at least one year. 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 etc.	
17	Warranty	Manufacturer shall provide a <b>minimum of one year warranty</b> after acceptance.	
18	Delivery	The Motorcycles shall be delivered within 15 days from the date of contract to: Dhangadhi Sub-Metropolitan city, Dhangadhi, Kailali, Sudurpaschim Province	

**Prepared By:**

Bijay Kumar Shah  
Mechanical Engineer  
Department of Roads  
Heavy equipment Division, Godavari  
NEC No. : 340 Mechanical "A"

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**Approved By:**

Chief Administrative Officer  
Dhangadhi Sub-Metropolitan city, Dhangadhi, Kailali  
Sudurpaschim Province  
Date and Signature -



Chief Administrative Officer

# Technical Specification

**Client:** Dhangadhi Sub-Metropolitan city, Dhangadhi, Kailali, Sudurpaschim Province  
**Vehicle Name:** Four stroke Motorcycle (125±2%) cc  
**Quantity:** 1 Unit

S. N.	CRITERIA	TECHNICAL REQUIREMENTS	OFFERED SPECIFICATION
1	General	Motorcycle of sturdy design, suitable for driving in rough and hilly road condition of Nepal with operating condition suitable for temperature range of -5 °C to 45°C and up to altitude of 2000 meters having <b>Kerb weight of minimum 115 Kg.</b> Should have electric self-start and kick start arrangement for starting engine.	<b>Model -</b> <b>Kerb Weight -</b> <b>Starting system:</b>
2	Engine	<b>Air cooled four stroke gasoline engine with engine displacement of range (125±2%) cc developing power and torque not less than 10 PS and 10 Nm respectively at the governed RPM.</b>	<b>Engine type-</b> <b>Engine displacement-</b> <b>Maximum output power-</b> <b>Maximum Torque-</b>
3	Gauges	To include necessary gauges and meters for efficient operation and maintenance of the vehicle.	
4	Transmission	<b>Minimum five speed</b>	
5	Brake	Mechanical or Hydraulic Brake with disc brake at the front and drum brake at rear.	
6	Frame	Sturdy frame and suspension with telescopic shock absorbers.	
7	Ground Clearance Wheel base	<b>minimum 150 mm</b> <b>Minimum 1260 mm</b>	
8	Fuel tank capacity	<b>Minimum 8 litres</b>	
9	Essential Accessories	1. Head light, rear and turn signal lights 2. Two rear view mirrors 3. Safety/handle lock 4. Seat for co-rider 5. Helmet -1 No. 6. Leg Guard 7. Basic tools for Motorcycle <b>Equipped with all accessories offered in standard model but not limited to the above items.</b>	

  
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10	<b>Instructions</b>	All signs and instructions on the motorcycle shall be in English.
11	<b>Manuals</b>	One set of Operator's and Owner's Instruction Manual in English shall be supplied with each motorcycle
12	<b>Tools</b>	A Set of tools as required for general maintenance shall be supplied for each unit
13	<b>Proven Performance</b>	The Supplier should provide the manufacturers' data about the performance of the unit including the fuel Consumption and performance curve of the engine.
14	<b>Tyre</b>	Standard tubeless road tyre
15	<b>Colour</b>	Any standard color
16	<b>Warranty</b>	Manufacturer shall provide a minimum of one year warranty.
17	<b>Emission standard</b>	The Supplied vehicle shall meet Nepal vehicle mass emission standard 2012 which must be certified by Department of Nepal Transport Management.
18	<b>Initial Service</b>	The supplier should provide 1 year free servicing after acceptance.
19	<b>Delivery</b>	The motorcycles twelve units shall be delivered to: Dhangadhi Sub-Metropolitan city, Dhangadhi, Kailali, Sudurpaschim Province

**Notes:**

The major items are indicated by bold and highlighted letters/alphabets/figures in the technical specifications. Non- compliance of these major items will result in non-responsiveness of the bid.

Bidder's Signature.....

Date.....

**Prepared By:**

Er Bijay Kumar Sah

Mechanical Engineer

Heavy Equipment Division, Godavari, Kailali

NEC Regd. No.- 340 'Mechanical'



**Approved By:**

Chief Administrative officer

Dhangadhi

Chief Administrative Officer,  
Dhangadhi, Kailali, Sudurpaschim Province

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