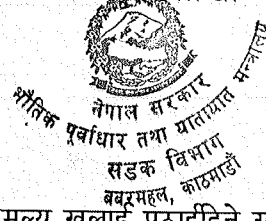




नेपाल सरकार
भौतिक पूर्वाधार तथा यातायात मन्त्रालय
सडक बिभाग
यान्त्रिक महाशाखा

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बबरमहल, काठमाडौं
कार्यालय कोड : ३३७०१३५२०

पत्र संख्या :- ४१०८१/८२
चलानी नम्बर :- ६३३



मिति:- २०८२/०३/२५
ने.सं.-११४५, दिल्लाख १४

बिषय :- मुल्य खुलाई पठाईदिने सम्बन्धमा।

श्री सडक बिभाग, बबरमहलको आ.व. ०८२/८३ को लागि आवश्यक पर्ने यसै पत्र साथ संलग्न Initial Draft of Specification अनुसार विभिन्न Equipment हरू खरिद गर्नु पर्ने भएको हुँदा Vat बाहेक प्रति इकाई मुल्य खुलाई पठाई दिनु हुन निर्देशानुसार अनुरोध छ।

तपशिल

सि.नं.	सामानको नाम	इकाई	अनुमानित परिणाम	प्रति इकाई मुल्य(भ्याट बाहेक)	जम्मा मुल्य(भ्याट बाहेक)	कैफियत
1	Track Dozer	Pcs	4			
2	Backhoe Loader with Breaker	Pcs	10			
3	Tipper Truck	Pcs	17			
4	Maintenance Pick up Truck	Pcs	5			

Note : The supplier must fill the Initial Draft of Specification and submit the manufacturer's standard catalogue. Data missing from the catalogue must be declared in letter from the manufacturer.

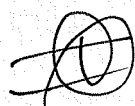

महेश कुमार पराजुली
सि.डि.ई

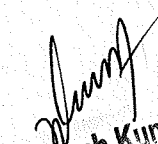
Technical Specifications

Track Dozer

Qty: 4 Units

S.N.	CRITERIA	DEPARTMENTAL REQUIREMENT	OFFERED SPECIFICATION
1	General	Crawler mounted hydraulic dozer , with heavy duty standard size cutting blade with tilting arrangement designed specifically for job on rocky, sandy and hilly sites. Suitable for operation under both common and or tough/ adverse climatic condition at operating altitude upto 2000 m (MSL) and ambient temperature varying between -5 ⁰ C to 50 ⁰ C.	Make: Model: Country of Origin:
2	Engine	Water-cooled, four stroke, Diesel engine , developing maximum Power not less than 185 kW at governed rpm. Fully equipped with advance technologies and all accessories as necessary to deliver power with superior performance, fuel efficiency, lower emission and smooth operation/ controls to optimize performance of the equipment applications. The engine system shall also be equipped with heavy duty radiator/ cooling system, cold starting system, heavy-duty air cleaner, heavy-duty fuel filter system, heavy duty battery and direct electrical starting system.	Make: Model:
3	Dimension and performance	Blade Capacity: Not less than 5 Cu. M Blade Width: Not less than 3600 mm Maximum lift above ground: Not less than 1200 mm Maximum drop below ground: Not less than 500 mm Maximum tilt adjustment: Not less than 400 mm Maximum angling angle: Not less than 25 degrees Maximum Travel speed forward (on top gear): Not less than 10 Km/hr Maximum Travel speed reverse (on top gear): Not less than 11 Km/hr	
3	Gauges	Gauges and meters as necessary for efficient operation and maintenance.	
4	Transmission	Torque Converter/Hydrostatic and Power shift transmission.	
5	Steering	Disc clutches with brakes, preferably wet	
6	Main frame	Steel	
7	Under carriage	Life time lubricated and positively sealed Track Idlers, Support Rollers and Pins and Bushes.	
8	Track Gauge	Heavy duty single grouser shoes. Track Shoe width within the range of 500 mm to 600 mm.	
9	Track Adjuster	Hydraulic type	
10	Blade Operation	Angled Dozer blade with angling and tilting mechanism.	





Mahesh Kumar Prajuli
S.D.E.

Mechanical Engineer

11	Special Attachment	Heavy duty track roller and sprocket guards, crankcase guard, front pullhook, radiator guard shall be fitted.	
12	Operating weight	24,000 Kg Class (± 1000 kg)	
13	Essential Accessories	1. ROPS Cabin 2. Front and rear working lights 3. Service hour meter 4. Front and rear tow hooks 5. Transmission guard and hydraulic line protection 6. Fully adjustable cushioned operator's seat To be equipped with all accessories offered in standard model but not limited to the above items.	



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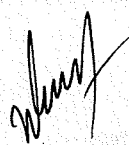
Technical Specifications

Backhoe Loader

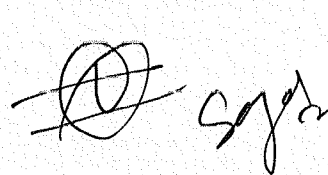
10 Nos

S.N.	CRITERIA	DEPARTMENTAL REQUIREMENT	OFFERED SPECIFICATION
1	General	Four wheel drive , rigid frame backhoe loader with steel cab, suitable for operation under rough working conditions and adverse climatic condition at operating altitude ranging from 80 m to 2500 m (msl) and ambient temperature varying between -10° C to 50° C.	
2	Capacity / Size	1. Operating Weight: 8000 kg±10% 2. Loader: Multi purpose (6-in-1, to facilitate dozing, digging, grading, backfilling, grabbing and loading application) bucket with bolt on teeth of SAE rated capacity nominally heaped: Not less than 1 cu.m ➤ Shovel break out force: Not less than 5250 kgf ➤ Maximum dumping height: Not less than 2700 mm 3. Backhoe: Backhoe bucket with bolt on teeth of SAE rated capacity of 0.3 cu.m. ±10% ➤ Bucket break out force: Not less than 5400 kgf ➤ Maximum working height: Not less than 6000 mm ➤ Maximum digging depth : Not less than 4800 mm ➤ Maximum loadover height: Not less than 4000 mm ➤ Maximum digging reach: Not less than 6800 mm (From ground level to rear wheel centre) To be equipped with out riggers with controls from cabin.	
3	Engine	Water cooled, Diesel engine , developing Maximum Gross Power not less than 90 HP (engine fully equipped with accessories) at governed RPM and Maximum Torque not less than 390 N-m for efficient full load operation of backhoe loader at operating conditions as stated in the bid document. Backhoe loader shall be equipped with heavy duty radiator, cold starting device, direct electric starting system, heavy duty battery, heavy duty air cleaner, heavy duty fuel filter, with water trap and drainage in fuel line and drain tap in fuel tank.	
4	Transmission	Torque converter with four speed synchromesh type of transmission	
5	Axles	Four wheel drive with fixed rear axle and oscillating front axles.	
6	Steering	Power assisted	
7	Brakes	Hydraulically actuated, wet multiple disc/caliper disc type service brake and separate parking brake	
8	Hydraulics	Suitable hydraulic system for smooth operation of all attachments Hydraulic System Pressure: Not less than 220 Bar Maximum pump flow: Not less than 115 LPM	

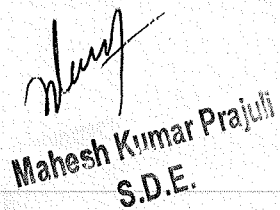

 Mechanical Engineer


 Mahesh Kumar Prajuli
 S.D.E.

9	Cab	All steel enclosed FOPS cab with laminated glass windscreen insulated roof, suitably located controls for back hoe (excavator) and loader operation, rear view mirror, cabin light, wiper and adjustable cushioned seat for operator shall be provided	
10	Breaker	The Backhoe loader shall have all the arrangements for the attachment and operation of hydraulic Breaker. <u>Hydraulic Breaker:</u> Breaker Service Weight: Not less than 400 kg Working tool Diameter: Approx 75 mm Useful tool length : Not less than 400 mm (The breaker should be compatible with supplied Backhoe loader and be supplied under the same contract package along with Backhoe loader)	Make: Model:
11	Essential Accessories	1. Road lights, work lights and fog lights 2. Cabin lights 3. Service hour meter Equipped with all accessories offered in standard model but not limited to the above items.	



Mechanical Engineer



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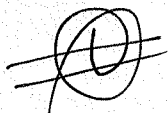
Technical Specification

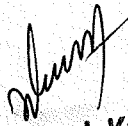
Tipper Truck

Qty: 17 Units

S. N.	CRITERIA	DEPARTMENTAL REQUIREMENT	OFFERED SPECIFICATION
1	General	Rear dump type tipping truck, right hand drive system with all steel rectangular body with flat bottom and heavy-duty sides decks with tailgate. Suitable for operation in rough and tough hilly road terrains of Nepal and in adverse climatic condition at operating altitude of around 50 m to 3000 m (MSL) and ambient temperature varying between -10° C to 50° C.	
2	Engine	Water cooled diesel Engine, developing maximum power output not less than 150 HP and maximum torque should not be less than 450 Nm (engine fully equipped with accessories) at governed RPM for efficient full load operation. Fully equipped with advance technologies and all accessories as necessary to deliver power with superior performance, fuel efficiency, lower emission and smooth operation/ controls to optimize performance of the tipper truck applications. The engine system shall also be equipped with heavy duty radiator/ cooling system, cold starting system, heavy-duty air cleaner, heavy-duty fuel filter system, heavy duty battery and electrical starting system.	
3	Cab	Factory built standard steel cab with insulated roof, laminated glass windscreen, wipers, glass windows on doors, proper ventilated system, comfortable seats with separate adjustable seat for driver, sun visor, and suitably located hydraulic tipping gear controls	
4	Tipper Body	Factory built Heavy Duty Type Dump body (cargo box) fitted with complete hydraulic tipping system for smooth tipping application	
5	Capacity and Performance	Cargo box Capacity: Minimum 7 Cu. M (± 0.5) Gross Vehicle weight should not be less than 14,000 kg Maximum climbing ability should not be less than 30% Minimum ground clearance should not be less than 250 mm	
6	Emission Standard	The emission standard of the offered tipper must be in compliance with or superior than the applicable Standard as prescribed by "Nepal Vehicle Mass Emission Standard" which is to be certified by Department of Transport Management.	
7	Gauges	Gauges and meters as necessary for efficient operation and maintenance.	
8	Clutch	Heavy duty disc type	

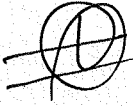
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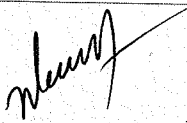

Mechanical Engineer


Mahesh Kumar Prajuli
S.D.E.

9	Transmission	Manual shift at least five forward and one reverse, all forward synchromesh.	
10	Axles	Two Axles Front : Steel I section Rear : Heavy duty, Fully floating	
11	Suspension	Front: Heavy duty Semi Elliptical leaf springs with shock absorbers or equally suitable type. Rear: Semi Elliptical multi leaf springs or equally suitable type.	
12	Tires	Standard size, preferably 9 X20-16 PR Front: Single Wheel with tyre Rear: Dual Wheel with tyre	
13	Steering	Power Assisted/ Power Steering	
14	Brakes	S-Cam air brake with mechanical parking brake and engine exhaust brake.	
15	Chassis and frame	Heavy duty section channel steel	
16	Essential Accessories	Head light, tail and rear light and turn signals 2. Cabin lights 3. Front and rear toe hooks 4. Heavy duty front bumper 5. Spare wheel with tire and tube 6. Hydraulic jack with handle To be equipped with all accessories offered in standard model but not limited to the above items.	

Soyu


Mechanical Engineer


Mahesh Kumar Prajapati
S.D.E.

Technical Specifications

Maintenance Pickup Truck

Quantity: 5 Units

S. No.	CRITERIA	DEPARTMENTAL REQUIREMENT	OFFERED SPECIFICATION
1	General	Maintenance Pickup Truck (Double cab Pickup Truck), Right Hand Drive model with two- and four-wheel drive , suitable for driving both in ON-ROAD condition giving smooth economic performance and in OFF-ROAD conditions capable of delivering strong adequate traction and maneuverability/stability needed for safe driving in rough, Sandy or slippery and hilly road conditions in Nepal	Make: Model: Country Of Origin:
2	Engine	Watercooled diesel Engine , developing rated Maximum Power output not less than 100 KW and Torque not less than 320 N-m at rated RPM with an efficient fuel injection system to all loads and operating conditions. The Engine shall be fully equipped with all necessary items/ accessories and controlling devices for safe, smooth, efficient, economical operation and optimizing vehicle performance producing lesser amount of pollutive emissions.	Make: Model:
3	Gauges	Fitted with all the gauges, indicators, signals as necessary for efficient operation, functional monitoring, vehicle performance and maintenance that includes (but not limited to) Battery charge indicator, water temperature, fuel, oil pressure, transmission gauge etc. With all standard items of offered model vehicle	
4	Transmission	4 wheel Drive , Manual shift, at least five forward and one reverse all forward synchromesh or Automatic Transmission , floormounted, 4WD engaged through control at driver.	
5	Ground Clearance	Minimum Ground Clearance: Not less than 220 mm.	
6	Suspension	Suitable for toughest terrain, smooth ride, stable handling and comfortable driving conditions. Front: Double wishbone with coil spring and stabilizer. Rear: Leaf springs and shock absorbers	
7	Tyres	Standard Size tyre	
8	Steering	Power assisted/Power Steering	



Mechanical Engineer




Mahesh Kumar Prajuli
S.D.E.

9	Brakes	Front: Hydraulic operated Disc type Rear: Hydraulic operated Disc/drum type Additional mechanical/electrical parking brake Technology: • Four-wheel Anti-lock brake system (ABS) with Electronic Brake-force Distribution (EBD). • Brake Assist System	
10	Cab	4 doors, allmetallic cab with insulated roof, right hand drive, laminated glass wind screen, wipers, glass Windows, through ventilation, comfortable and adjustable seats for driver and passenger, two sunvisors, and two side view mirrors and rear view mirror. Rear body to be metallic, pickup type with drop type tail board.	
11	Chassis and Frame	Steel, heavy duty high rigidity frame structure suitable for rough road conditions with hook at front.	
12	Essential Accessories	1. Head light, tail and rear light, reversing light and turn signals. 2. Cabin Lamp 3. Speedo meter / odometer. 4. One Set Spare Wheel with tyre 5. Suitable Jack with handle 6. Front seat belt for driver and Co-passenger. 7. Air Conditioner 8. Defroster/Heater 9. All Power Windows (Fornt/Rear) 10. Central Door Locking and remote keyless entry System 11. Minimum front dual airbag safety system 12. Reverse Park assist System(Sensor/camera) 13. Music Player with bluetooth conectivity and USB/Mini-USB-Port, Preferably with Radio, MW & FM. • To be equipped with all accessories offered in standard model but not limited to the above items.	
13			

Signature

Signature

Signature
Mahesh Kumar Prajuli
S.D.E.