



नेपाल सरकार
भौतिक पूर्वाधार तथा यातायात मन्त्रालय
सडक विभाग
यान्त्रिक महाशाखा

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कार्यालय कोड : ३३७०१३५२०

पत्र संख्या :- ४१०८१/८२
चलानी नम्बर :- ५३४

मिति:- २०८२/०२/०५
ने.सं.-११४५ बछलागा, ७

विषय :- मुल्य खुलाई पठाईदिने सम्बन्धमा।

श्री सडक विभाग, बबरमहलको लागी आवश्यक पर्ने यसै पत्र साथ संलग्न Specification अनुसार Ambulance तथा 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(ग्याट बाहेक)	जम्मा मुल्य(ग्याट बाहेक)	कैफियत
1	Truck Crane 50 ton Category	Pcs	2			
2	Crane Truck 25 TM Category	Pcs	2			
3	Tow Truck/Wrecker	Pcs	2			
	Rescue Tools					
1	Battery Operated Cutter	Pcs	5			
2	Battery Operated Spreader	Pcs	5			
3	Battery Operated Rammer	Pcs	5			
4	Battery Operated Chain Saw	Pcs	5			
5	Fire Extinguisher ABC Type 9 kg	Pcs	5			
6	Fire Extinguisher ABC Type 50 Kg With Trolley	Pcs	5			
सि.नं.	सामानको नाम	इकाई	अनुमानित परिणाम	प्रति इकाई CIP/Port Price	प्रति इकाई Inland Tax, Transportation तथा सम्पूर्ण खर्च र आवश्यक Equipment समेत	कैफियत
1	Ambulance Type A	Pcs	1			
2	Ambulance Type B	Pcs	2			

महेश कुमार पराजुली
सि.डि.ई



AMBULANCE

Ambulance A type-with all equipment prescribed by Ambulance Service Guideline

Ambulance B type-with all equipment prescribed by Ambulance Service Guideline

1.	General	4WD/AWD Right Hand Van type/Pickup Type A category ambulance suitable for operation under on road and off road and also rough working conditions and adverse climatic condition at operating altitude of 2500 m and ambient temperature varying between -5 to 50 degree centigrade Seating Arrangement: At Least 1 laying patient and Bench Set for 3 passenger (Attendant) in Patient Compartment and Driver + 1 Co-driver in Driver compartment	Make: Model: Country of Origin:
2.	Dimension and weight	Gross Vehicle weight should not be less than 2900 kg Minimum ground clearance should not be less than 180 mm Overall Length: Not more than 6000 mm Wheel Base: Not more than 3600 mm	
3.	Engine	Water cooled diesel Engine, developing maximum power output not less than 120 KW and maximum torque should not be less than 390 Nm (engine fully equipped with accessories) at governed RPM.	Make: Model:
4.	Transmission	Manual shift at least six forward and one reverse	
5.	Suspension	Front: Double wishbone or equally suitable type Rear: Coil Spring/Semi Elliptical multi leaf springs/Torsion bar or equally suitable type To ensure comfortable ride and safety of patient. The suspension maybe reinforced suitable to provide additional comfort	
6.	Steering	Power Assisted/ Power Steering	
7.	Brakes	Front: Hydraulic operated Disc type Rear: Hydraulic operated Disc/drum type Additional mechanical/electrical parking brake Four-wheel Anti-lock brake system (ABS) with Electronic Brake-force Distribution (EBD).	
8.	Instructions	All signs and instructions in the Ambulance shall be in English. The vehicle shall have 'Star Of Life' Signal on Right, Left and Rear Side and other signs and inscription as prescribed by Ambulance Service Guideline, 2078 MoHP Furthermore, the name and address of the purchaser should be inscribed on the left and right side of the ambulance. Laminated Sheet showing the electrical wiring diagram with location of various fuses and circuit breaker should be displayed in the vehicle at suitable location	
9.	Training	5 Days Training for 5 Persons in Nepal	

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TRUCK CRANE (50-ton Capacity)

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S.N.	CRITERIA	DEPARTMENTAL REQUIREMENT	OFFERED SPECIFICATION
1.	General	Truck Cranes with multi telescopic boom designed specifically for job site at very long distance from the fleet site. It shall work under both common and or tough/ adverse climatic condition at operating altitude upto 2000 m (MSL) and ambient temperature varying between -5 ^o C to 50 ^o C.	Make: Model: Country of Origin:
2.	Engine	Water-cooled, four stroke, Diesel engine , developing maximum Power not less than 245 kW and Maximum torque should not be less than 1300 Nm at governed rpm.	Make: Model:
3.	Wheel/Tyre and Outrigger	<u>Wheel/ Tyre</u> : Heavy duty type wheel and tyres with standard size <u>Outriggers</u> : 4-point telescopic hydraulic outrigger suitably designed and located for all crane operations with suitably located control unit for safe and easy operation. Maximum time for extension: Not more than 40 Seconds	
4.	Working Range/ Performance	Maximum lifting Capacity: Not less than 50,000 Kg at working radius of 3 meter Maximum boom length: Not less than 42 meters Maximum time for boom extension: Not more than 100 Seconds Maximum lift capacity at 40 m height: Not less than 9,500 Kg Maximum lift capacity at 30 m radius (horizontal): Not less than 1,200 Kg	
5.	Equipment Weight/performance	Not more than 42,000 Kg (with standard counterweight and equipment) Approach angle: Not less than 18 degrees Departure angle: Not less than 11 degrees Ground clearance: Not less than 250 mm	
6.	Transmission	Automatic or Manual	
7.	Axles/drive	4 axle system with minimum 8X4 drive Maximum Grade ability: Not less than 40% Maximum drive Speed: Should not be less than 45 Km/hr	

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8.	Slewing System	Axial piston motor, planetary gear for full 360° rotations with service and holding brake Slewing speed: Not less than 2.0 rpm	
9.	Crane Control	Electrical/ Hydraulic/ Mechanical control with joystic	
10.	Hoist System	Axial Piston motor with planetary gear and brake Maximum rope speed(Main Winch): 120m/min	
11.	Training for 5 person for 5 days in Nepal		

TOW TRUCK/WRECKER

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S.N.	CRITERIA	DEPARTMENTAL REQUIREMENT	OFFERED SPECIFICATION
1.	General	Tow Truck with crane boom designed specifically for towing roadside breakdown vehicle. It shall work under both common and or tough/ adverse climatic condition at operating ambient temperature varying between -5° C to 50° C.	Make: Model: Country of Origin:
2.	Engine	Water-cooled, four stroke, Diesel engine , developing maximum Power not less than 200 kW and Maximum torque should not be less than 1100 Nm at governed rpm.	Make: Model:
8.	Equipment Weight/performance	Gross vehicle weight: 38,000 Kg (±10%) (with standard counterweight and equipment) Ground clearance: Not less than 275 mm Maximum Grade ability: Not less than 25 % Maximum drive Speed: Should not be less than 70 Km/hr Maximum under pulling capacity: Not less than 30 ton Maximum hoist pulling capacity: Not less than 20 ton	
9.	Transmission	Automatic transmission or Manual transmission with minimum 9 speed forward and 1 Speed reverse	
10.	Axles/drive	3 or 4 axle system with minimum 6X4 or 8X4 drive	
16.	Lift/Hoist System	Effective minimum length of bracket arm: Not less than 1700 mm Effective maximum length of bracket arm: Not less than 3000 mm Bracket Strap Tilt angle: not less than ±10 degree Angle of arm folding: Not less than (-10 to 90) degree Number of winch: 2 Winch system Wire rope diameter: Not less than 18 mm Wire rope length: Not less than 40 meter Winch traction: Not less than 150 KN (combined) Minimum wire rope Speed: Not less than 5 m/ min	
28.	Training	Training for 5 person for 5 days in Nepal	




Crane Truck 25 T-M

S.N.	CRITERIA	DEPARTMENTAL REQUIREMENT	OFFERED SPECIFICATION
1	General	6X4 or 6X2, Right hand drive crane truck, with multi telescopic boom designed specifically for job site located at remote area connected through rough road and also located at very long distance from the fleet site. It shall work under both common and or tough/ adverse climatic condition at operating altitude upto 2500 m (MSL) and ambient temperature varying between -5 ⁰ C to 50 ⁰ C.	
2	Crane Capacity / Size	Maximum lifting moment capacity: Not less than 25 ton-m Maximum lifting capacity: Not less than 10,000 kg Maximum Horizontal reach: Not less than 13.0 m Maximum Vertical reach: Not less than 15.0 m Maximum lift capacity at 13 m height: Not less than 4,000 Kg Maximum lift capacity at 13 m radius (horizontal): Not less than 1,300 Kg Boom (slewing) Rotation: 360 degree	
3	Truck Engine	Water cooled, Diesel engine , developing Maximum Net Power not less than 175 KW and Maximum torque should not be less than 850 NM (engine fully equipped with accessories) at governed RPM..	
4	Cargo Box & Performance	All steel rectangular body with flat bottom steel plate cargo deck suitable for transfer of small equipments, vehicles and goods. Cargo Box Dimensions: Minimum, 6000mm X 2200mm X 500mm Wheel Base: Not less than 5,200 mm Gross Vehicle weight should not be less than 25,000 kg Maximum climbing ability should not be less than 25% Minimum ground clearance should not be less than 225 mm	
5	Transmission	Manual minimum 6 speed forward and 1 speed backward synchromesh type of transmission	
6	Wheel/Tyre and Outrigger	Wheel/ Tyre: Heavy duty type wheel and tyres with standard size Outriggers: 4-point telescopic hydraulic outrigger suitably designed and located for all crane operations with suitably located control unit for safe and easy operation.	
7	Steering	Power assisted/ Power Steering	
8	Cab	Fully factory built steel cab	
9	Essential Accessories	Following accessories should be supplied with each equipment: a) Tow Cable (5 ton) with hook-2 sets b) Crane lifting belt (5 ton) with hook-2 sets c) Manual Winch (3 ton) with chain or cable - 2 sets d) Steel wire rope (14 mm dia. X 10m long) - 2 sets To be equipped with all accessories offered in standard model but not limited to the above items.	
10	Training	Training for 5 person for 5 days in Nepal	

Battery powered Cutter

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S.N	CRITERIA	DEPARTMENTAL REQUIREMENT	OFFERED SPECIFICATION
1	General	Battery powered Cutter of sturdy design, suitable for rescue operations in various emergency situations including vehicle extrication, structural collapse, and confined space rescue.	Make: Model: Country of Origin:
2	Performance (As per NFPA 1936 or 1960)	NFPA Cutting Rating: min A6/B6/C6/D7/E7 Max Cutting Opening: Not less than 180 mm	
3	Power System	Lithium-ion battery system Operating Voltage: not less than 18V	
4	Weight	Total operational weight (without battery) not exceeding 20 kg for easy handling and maneuverability.	
5	Essential Accessories	Two lithium-ion rechargeable batteries (minimum 9Ah). Battery charger set-1 (compatible with standard power supply). Other Standard Accessories as per manufacturer.	
6	Warranty	Manufacturer shall provide a minimum of one year warranty after acceptance.	
7	Training	1 day Training for 5 persons	

Battery powered Spreader

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S. N	CRITERIA	DEPARTMENTAL REQUIREMENT	OFFERED SPECIFICATION
1	General	Battery powered spreader of sturdy design, suitable for rescue operations in various emergency situations including vehicle extrication, structural collapse, and confined space rescue.	Make: Model: Country of Origin:
2	Performance (As per NFPA 1936 or 1960)	Spreading distance: not less than 620 mm HSF (High Spreading Force): not less than 60 kN LSF (Low Spreading Force): not less than 32 kN HPF (High Pulling Force): not less than 45 kN LPF (Low Pulling Force): not less than 25 kN	
3	Power System	Lithium-ion battery system. Operating Voltage: Not less than 18 V.	
4	Weight	Total operational weight (without battery) not exceeding 22 kg for easy handling and maneuverability.	

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5	Essential Accessories	Two lithium-ion rechargeable batteries (minimum 9Ah). Battery charger set (compatible with standard power supply). Chain set for pulling operation. Other Standard Accessories as per Manufacturer.	
6	Warranty	Manufacturer shall provide a minimum of one year warranty after acceptance.	
7	Training	1 Day training for 5 persons	

Battery powered Rammer

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S.N	CRITERIA	DEPARTMENTAL REQUIREMENT	OFFERED SPECIFICATION
1	General	Battery powered Ram of sturdy design, suitable for rescue operations in various emergency situations including vehicle extrication, structural collapse, and confined space rescue.	Make: Model: Country of Origin:
2	Performance (As per NFPA 1936 or 1960)	Highest Spreading Force: Not less than 125 kN Lowest Spreading Force: Not less than 60 kN Max extension: Not less than 1200 mm	
3	Power System	Lithium-ion battery system Operating Voltage: Not less than 18V	
4	Weight	Total operational weight (without battery) not exceeding 20 kg for easy handling and maneuverability	
5	Essential Accessories	Two lithium-ion rechargeable batteries (minimum 9Ah) Battery charger set (compatible with standard power supply) Other Standard Accessories as per manufacturer.	
6	Warranty	Manufacturer shall provide a minimum of one year warranty after acceptance.	
7	Training	1 Day training for 5 persons	

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Battery powered Chain Saw

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S. N	CRITERIA	DEPARTMENTAL REQUIREMENT	OFFERED SPECIFICATION
1	General	Battery powered chain saw of sturdy design, suitable for cutting wooden material.	Make: Model: Country of Origin:
2	Performance	Chain Speed: Not less than 20 m/s Chain Gauge: Not less than 1.1 mm Chain Pitch: Not less than 3/8" Guide bar length: Not less than 16"	
3	Power System	Lithium-ion battery system.	
4	Weight	Total operational weight (without battery) not exceeding 5 kg for easy handling and maneuverability.	
5	Essential Accessories	Two lithium-ion rechargeable batteries (minimum 40V 7Ah). Battery charger set (compatible with standard power supply). Chain set (min. 2) Chain cover (min. 2) Other Standard Accessories as per Manufacturer.	
6	Warranty	Manufacturer shall provide a minimum of one year warranty after acceptance.	
7	Training	1 day training for 5 persons	

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Fire Extinguisher



S.N	Criteria	Departmental Requirement	Offered Specification
1	Agent Type	ABC Powder	Make: Model: Country of Origin:
2	Capacity Agent Weight Minimum	9KG	
3	Pressure	Not less than 12 bar	
4	Discharge Time	Not less 15 seconds	
5	Range	Not less than 4 m	
6	Certification	EN3 compliance	
7	Build	Mild Steel cylinder with anti corrosive paint	
8	Accessories	• Powder valve assembly • Safety Pin with end tip seal • Neck ring • Discharge Tube • Hose Assembly • J Bracket • Base	
9	Shelf Life Minimum	5 years	
10	Training	1 day training for 5 persons	

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Sargent

Trolley Fire Extinguisher



S.N	Criteria	Departmental Requirement	Offered Specification
1	Agent Type	ABC Powder	Offered Specification
2	Capacity Agent Weight Minimum	50KG	Make: Model: Country of Origin:
3	Working Pressure	Not less than 14 bar	
4	Discharge Time	Not less than 40 seconds	
5	Range	Not less 8 m	
6	Certification	EN3 compliance	
7	Build	Mild Steel cylinder with anti corrosive paint	
8	Accessories	• Powder valve assembly • Safety Pin with end tip seal • Neck ring • Discharge Tube • Hose Assembly • J Bracket • Base • Trolley	
9	Shelf Life Minimum	5 years	
10	Training	1 day training for 5 persons	

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