



नेपाल सरकार
पूर्वाधार विकास मन्त्रालय
सडक विभाग
यान्त्रिक महाशाखा
चकुपाट, ललितपुर

ई-मेल: mechb@dor.gov.np
इमेल: mahashakhayantrik@gmail.com
चाकुपाट, ललितपुर
कार्यालय कोड : ३३७०१३५२०

पत्र संख्या :- ४।०८३/८४

मिति:- २०८३/०५/०८

चलानी नम्बर :- ४९

बिषय :- मूल्य खुलाई पठाईदिने सम्बन्धमा।

श्री सडक विभाग, चकुपाट को आ.व. ०८३/८४ को लागि आवश्यक पर्ने यसै पत्र साथ संलग्न Initial Draft of Specification अनुसार विभिन्न Equipment हरू खरिद गर्नु पर्ने भएको हुँदा लागत अनुमान तयारी प्रयोजनको लागि Vat बाहेक प्रति इकाई मूल्य खुलाई पठाई दिनु हुन निर्देशानुसार अनुरोध छ।

तपशिल

सि.नं.	सामानको नाम	इकाई	अनुमानित परिणाम	प्रति इकाई मूल्य(भ्याट बाहेक)	जम्मा मूल्य(भ्याट बाहेक)	कैफियत
1	Truck Crane with Recovery platform	Pcs	2			
2	Battery Operation Chain saw	Pcs	4			
3	Battery Operation Spreader	Pcs	4			
4	Battery Operation Cutter	Pcs	4			
5	Battery Operation Ram	Pcs	4			
6	Fire Extinguisher 9 kg	Pcs	4			
7	Fire Extinguisher 50 kg (with Trolley)	Pcs	4			

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

Truck Crane with recovery platform

Qty: 2 units

S.N.	CRITERIA	DEPARTMENTAL REQUIREMENT	OFFERED SPECIFICATION
1	General	6X4 , Right hand drive crane mounted truck with multi telescopic boom, multistage tow bracket system for towing small vehicles (car, jeep, SUV), and sliding flat bottom steel cargo platform for transferring equipment, vehicles and goods. Designed for remote job sites with rough road access and long distances from fleet site, operating at altitudes up to 2500 m (MSL) and temperatures between -5°C to 50°C.	Make: Model: Origin:
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 12.45 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 degrees	Make: Model:
3	Truck Engine	Water cooled, Diesel engine , developing Maximum Power not less than 185 KW and Maximum torque should not be less than 900 NM (engine fully equipped with accessories) 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 crane 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.	Make: Model: Origin:
4	Cargo Platform & Performance	Sliding type with flat bottom steel plate cargo platform suitable for transfer of small equipments, vehicles and goods. Cargo platform Dimensions: Minimum, 6000mm X 2200mm 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 Number of winch: minimum 1 winch system Wire rope diameter: Not less than 18 mm Wire rope length: Not less than 35m Winch Traction: Not less than 100 KN	
5	Tow system	Multistage tow bracket system suitable for towing small vehicles like car, jeep, SUV etc. Effective length of the boom: Not less than 1500 mm Max lifting capacity at full extension: Not less than 3000 Kg	
6	Emission Standard	The emission standard of the offered vehicle must be in compliance with or superior than the prevailing Standard as prescribed by "Nepal Vehicle Mass Emission Standard" certified by Department of Transport Management.	

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7	Gauges	To include ammeter, water temperature, fuel, oil pressure, transmission and hydraulic gauges as necessary for efficient operation and maintenance.	
8	Transmission	Manual minimum 6 speed forward and 1 speed backward synchromesh type of transmission	
9	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.	
10	Steering	Power assisted/ Power Steering	
11	Brakes	Air brakes or hydraulic on all wheels.	
12	Hydraulics	Suitable hydraulic system for smooth operation of all attachments	
13	Cab	Fully factory built steel cab with laminated glass windscreen insulated roof, suitably located controls for crane operation. rear view mirror, cabin light, wiper and adjustable cushioned seat for operator shall be provided	
14	Essential Accessories	Following accessories should be supplied with each equipment: a) Head light, tail and rear light and turn Signals, Cabin lights. b) Front and rear two hooks. c) Heavy duty front bumper. d) Spare wheel with tire and tubes. e) Hydraulic jack. g) Tow Cable (5 ton) with hook-2 sets h) Crane lifting belt (5 ton) with hook-2 sets i) Manual Winch (3 ton) with chain or cable - 2 sets j) Steel wire rope (14 mm dia. X 10m long) - 2 sets k) Ratchet strap (heavy duty) – 8 sets To be equipped with all accessories offered in standard model but not limited to the above items.	
15	Instructions	All signs and instructions in the equipment shall be in English	
16	Manuals	1. One copy of the Operator's and Owner's Instructions and Maintenance manual in English with each equipment 2. One hard copy and one electronic copy of following manuals in English shall be supplied with equipment: ➤ Spare parts catalogue ➤ Comprehensive workshop manual	
17	Tools	A set of tools including hydraulic jack with handle as required for general maintenance shall be supplied with in a lockable tool box for each unit	
18	Initial Service	The supplier shall provide with the equipment all the necessary filters, lubricants and spare parts required for the first three services, after the equipment has been commissioned and accepted.	
19	Color	Construction equipment yellow / Orange	
20	Proven Performance	1. The machine offered shall be of 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 and production capacity of the unit.	
21	Warranty	Manufacturer shall provide a minimum of one year warranty after delivery	

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22	Related Service	<i>The supplier shall arrange and conduct training by the expert's engineers (who possess adequate knowledge and skill acquired through involvement in or exposure under manufacturer's authorized company with the supplied equipment) for five concerned engineers/operators/ mechanics of the Department of Roads (or concerned authorities), in operation, maintenance and/or repair of the equipment supplied after delivery at site for Three (3 days) in Nepal. The training content should cover all the necessary topics in operation, repair/ maintenance both in theoretical and practical aspects essential to optimum use and proper repair/ maintenance of the supplied equipment that must includes but not limited to following topics</i> <i>i. General introduction and machine features.</i> <i>ii. Familiarization with Components</i> <i>iii. Operating system and safety features.</i> <i>iv. Various Applications</i> <i>v. Special attachment, versatile features</i> <i>vi. Productivity</i> <i>vii. Servicing/ Schedule maintenance</i> <i>viii. Engine system</i> <i>ix. Travel/ swing system</i> <i>x. Hydraulic system</i> <i>xi. Brake system</i> <i>xii. Cooling system</i> <i>xiii. Electric system</i> <i>xiv. Control system</i> <i>xv. Trouble shooting and diagnosis</i>	
23	Delivery	Crane mounted truck with recovery platform, 2 units shall be delivered to Department of Roads..... Nepal	

- a) 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 offer

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Technical Specifications

Battery operated Chain Saw

Qty: 4 Units

S. N	CRITERIA	DEPARTMENTAL REQUIREMENT	OFFERED SPECIFICATION
1	General	Battery operated 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 mm Chain Pitch: Not less than 3/8" Guide bar length: Not less than 14"	
3	Power System	Lithium-ion battery system. Capacity: Not less than 36V, 7Ah	
4	Weight	Total operational weight (without battery) not exceeding 5 kg for easy handling and maneuverability.	
5	Essential Accessories	Two lithium-ion rechargeable batteries. Battery charger set (compatible with standard power supply). Chain set (min. 2) Chain cover (min. 2) Other Standard Accessories as per Manufacturer.	
6	Instructions	All signs and instructions in the equipment shall be in English .	
7	Manuals	One copy of the operation manual and maintenance manual in English shall be supplied with each unit.	
8	Tools	A set of tools as required for general maintenance shall be supplied.	
9	Proven performance	The rescue tool offered shall be a current model under standard production by the manufacturer (should be declared by manufacturer's letter) for at least one year . The bidder shall provide the manufacturer's data of the performance of the unit including third-party certifications.	
10	Warranty	Manufacturer shall provide a minimum of one year warranty after acceptance .	
11	Delivery	The rescue tools 4 units shall be delivered to:	

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Technical Specifications

Battery operated Spreader

Qty:4 Units

S. N	CRITERIA	DEPARTMENTAL REQUIREMENT	OFFERED SPECIFICATION
1	General	Battery operated 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 700 mm HSF (High Spreading Force): not less than 65 kN LSF (Low Spreading Force): not less than 35 kN HPF (High Pulling Force): not less than 45 kN LPF (Low Pulling Force): not less than 25 kN IP Rating (for equipment and battery): IP 57 / IP 58 / IP 59 / IP 67 / IP 68 / IP 69	
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.	
5	Essential Accessories	Two lithium-ion rechargeable batteries (minimum 8Ah). Battery charger set (compatible with standard power supply). Chain set for pulling operation. Other Standard Accessories as per Manufacturer.	
6	Instructions	All signs and instructions in the equipment shall be in English .	
7	Manuals	One copy of the operation manual and maintenance manual in English shall be supplied with each unit.	
8	Tools	A set of tools as required for general maintenance shall be supplied.	
9	Proven performance	The rescue tool offered shall be a current model under standard production by the manufacturer (should be declared by manufacturer's letter) for at least one year . The bidder shall provide the manufacturer's data of the performance of the unit including third-party certifications.	
10	Warranty	Manufacturer shall provide a minimum of one year warranty after acceptance .	
11	Delivery	The rescue tools 4 units shall be delivered to:	




Technical Specifications

Battery operated Ram

Qty: 4 Units

S.N	CRITERIA	DEPARTMENTAL REQUIREMENT	OFFERED SPECIFICATION
1	General	Battery operated 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 1150 mm IP Rating (for equipment and battery): IP 57 / IP 58 / IP 59 / IP 67 / IP 68 / IP 69	
3	Power System	Lithium-ion battery system Operating Voltage: Not less than 18V	
4	Weight	Total operational weight (with out battery) not exceeding 22 kg for easy handling and maneuverability	
5	Essential Accessories	Two lithium-ion rechargeable batteries (minimum 8Ah) Battery charger set (compatible with standard power supply) Other Standard Accessories as per manufacturer.	
6	Instructions	All signs and instructions in the equipment shall be in English .	
7	Manuals	One copy of the operation manual and maintenance manual in English shall be supplied with each unit.	
8	Tools	A set of tools as required for general maintenance shall be supplied.	
9	Proven performance	The rescue tool offered shall be a current model under standard production by the manufacturer (should be declared by manufacturer's letter) for at least one years . The bidder shall provide the manufacturer's data of the performance of the unit including third-party certifications.	
10	Warranty	Manufacturer shall provide a minimum of one year warranty after acceptance .	
11	Delivery	The rescue tools 4 units shall be delivered to:	

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Technical Specifications

Battery operated Cutter

Qty: 4 Units

S. N	CRITERIA	DEPARTMENTAL REQUIREMENT	OFFERED SPECIFICATION
1	General	Battery operated 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 A7/B8/C7/D7/E8/F4 Max Cutting Opening: Not less than 180 mm IP Rating (for equipment and battery): IP 57 / IP 58 / IP 59 / IP 67 / IP 68 / IP 69	
3	Power System	Lithium-ion battery system Operating Voltage: not less than 18V	
4	Weight	Total operational weight (with out battery) not exceeding 22 kg for easy handling and maneuverability.	
5	Essential Accessories	Two lithium-ion rechargeable batteries (minimum 8 Ah). Battery charger set (compatible with standard power supply). Other Standard Accessories as per manufacturer.	
6	Instructions	All signs and instructions in the equipment shall be in English .	
7	Manuals	One copy of the operation manual and maintenance manual in English shall be supplied with each unit.	
8	Tools	A set of tools as required for general maintenance shall be supplied.	
9	Proven performance	The rescue tool offered shall be a current model under standard production by the manufacturer (should be declared by manufacturer's letter) for at least one year . The bidder shall provide the manufacturer's data of the performance of the unit including third-party certifications.	
10	Warranty	Manufacturer shall provide a minimum of one year warranty after acceptance .	
11	Delivery	The rescue tools 4 units shall be delivered to:	

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Technical Specifications

Fire Extinguisher

Qty: 4 Units

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 / Alloy Steel cylinder or equivalent 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	Not less than 5 years	

Fire Extinguisher with Trolley

Qty: 4 Units

S. N	Criteria	Departmental Requirement	Offered Specification
1	Agent Type	ABC Powder	Make: Model: Country of Origin:
2	Capacity Agent Weight Minimum	50KG	
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 / Alloy Steel cylinder or equivalent 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	Not less than 5 years	

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