नेपाल सरकार
पूर्वाधार विकास मन्त्रालय
सडक बिभाग
यान्त्रिक महाशाखा

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चाकुपाट, ललितपुर
कार्यालय कोड :३३७०१३५२०

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

पत्र संख्या :- ४।०८३/८४
चलानी नम्बर :- ९९२

मितिः- २०८३/०७/१३

बिषय :- मुल्य खुलाई पठाईदिने सम्बन्धमा।

श्री सडक बिभाग, 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 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	**Portable Bitumen and Emulsion Sprayer**	Pcs	21			
2	**Truck mounted Crane**	Pcs	10			

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.

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महेश कुमार पराजुली
सि.डि.ई

Government of Nepal
Ministry of Infrastructure Development
Department of Roads
Mechanical Branch
Chakupat, Lalitpur

Technical Specifications

Portable Bitumen and Emulsion Sprayer **Qty: 21 Unit**

S.No.	CRITERIA	DEPARTMENTAL REQUIREMENT	OFFERED SPECIFICATION
1	General	High performance portable bitumen and emulsion sprayer with single point sprayer unit mounted on independent trolley.	Make: Model: Country of Origin:
2	Engine	**Diesel Engine with maximum power not less than 6 HP (engine fully equipped with accessories) at governed RPM** for efficient full load operation.	Make: Model:
3	Tank	**Minimum 1000 L capacity 4 mm thick mild steel plate** insulated with glass wool with suitable cladding	
4	Burner	**Single diesel/kerosene burner with internal fire tube** (must feature an independent **manual cut-off switch** for emulsion days)	
5	Pump and Nozzle	Positive displacement or suitable type heavy duty bitumen pump, spray gun, wooden handle with spray nozzle and flexible S.S. Corrugated Flexible hose pipe (for Bitumen) and R-2 grade rubber hose for emulsion spray.	
6	Accessories	Dial type thermometer, dip-stick, burner lighting torch, tool box **Equipped with all accessories offered in standard model but not limited to the above items** **Additional accessories: 1 unit of backpack blower with each unit of equipment** Specification: • Application: Heavy-duty asphalt surface and pothole preparation. • Engine Type: Commercial-grade, air-cooled gasoline engine. • Power Output: Not less than **2.5 kW** • Max Air Velocity: Not less than **100 m/s** • Air Volume (Nozzle): Not less than **650 CFM** • Dry Weight: Not more than **12 kg** • **Harness:** Ergonomic, padded backpack straps with a waist belt.	
7	Trailer	Independent trailer with two wheels and tyre and should be easily towed by any vehicle or tractor unit	
8	Instructions	All signs and instructions in the equipment shall be in English	
9	Manuals	1. One copy of the Operator's and Owner's Instructions and Maintenance manual in English shall be supplied with each equipment	
10	Color	Standard Color/ Construction yellow	
11	Warranty	Manufacturer shall provide a minimum of **one year warranty** after acceptance	
12	Delivery	The Portable Bitumen and emulsion Sprayer - 21 units shall be delivered to: **DoR, Heavy Equipment Division, ……., Nepal**	

Note:

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.**

Bidder's Signature ..... **Date** .....

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Technical Specifications and Standards

Truck mounted Crane ***Quantity: 10 Units***

S. N.	CRITERIA	DEPARTMENTAL REQUIREMENT	Offered Specification
1.	General	**Right hand drive, straight boom type**, crane truck, with multi telescopic boom designed specifically for job site located at remote, urban and city area connected through on-road and off-road rough located at very long as well as short distance from the fleet site.	**Make:** **Model:** **C/O:**
2.	Crane Capacity / Size	Maximum lifting moment capacity: Not less than **6.5 ton-m** Maximum lifting capacity**: Not less than 3,000 kg** Maximum Horizontal reach: **Not less than 7.5 m** Maximum Vertical reach: **Not less than 9.0 m** Maximum lift capacity at 9 m height: **Not less than 2,000 Kg** Maximum lift capacity at 8 m radius (horizontal): **Not less than 500 Kg** Boom (slewing) Rotation: 360 degrees Number of booms: **Not less than 3**	**Make:** **Model:** **C/O:**
3.	Truck Engine	Water cooled diesel engine developing **maximum Power should not be less than 110 KW and maximum torque should not be less than 450 Nm** (engine fully equipped with accessories) at the governed speed for 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 crane truck applications.	**Make:** **Model:** **C/O:**
4.	Cargo Box & Performance	All steel rectangular body with flat bottom steel plate cargo deck suitable for transfer of small equipment, material and goods. Cargo Box Dimensions**:** Length**: (**4500 mm-5000 mm) Width: Not less than 2000 mm Height: Not less than 600 mm **Wheel Base: (4000 mm - 4300 mm)** **Gross Vehicle weight: Not less than 11,900 kg** **Maximum climbing ability: Not less than 20%**	
5.	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.**	
6.	Gauges	To include ammeter, water temperature, fuel, oil pressure, transmission and hydraulic gauges as necessary for efficient operation and maintenance.	

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S. N.	CRITERIA	DEPARTMENTAL REQUIREMENT	Offered Specification
7.	Transmission	**Manual shift at least Five forward and one reverse**, all forward synchromesh	
8.	Wheel/Tyre and Outrigger	Wheel/ Tyre: Heavy duty type wheel and tyres with standard size Outriggers: 2/4-point telescopic hydraulic outrigger suitably designed and located for all crane operations with suitably located control unit for safe and easy operation.	
9.	Steering	**Power assisted/ Power Steering**	
10	Brakes	Air brakes or hydraulic on all wheels.	
11	Hydraulics	Suitable hydraulic system for smooth operation of all attachments	
12	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	
13	Essential Accessories	Following accessories should be supplied with each equipment: a) Head light, tail and rear light and turn Signals, Cabin lights. b) Rear tow hook (5-ton capacity heavy Duty) d) Spare wheel with tire e) Hydraulic jack f) Tow Cable (3 ton) with hook-2 sets g) Crane lifting belt (5 ton) with hook-2 sets h) 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.	
14	Instructions	All signs and instructions in the equipment shall be in English	
15	Manuals	1. One copy of the Operator's and Owner's Instructions and Maintenance manual in English with each equipment 2. 8 (Eight) copies of following manuals in English shall be supplied with equipment: • Spare parts catalogue • Comprehensive workshop manual	
16	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	
17	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.	
18	Color	Standard	

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S. N.	CRITERIA	DEPARTMENTAL REQUIREMENT	Offered Specification
19	Proven Performance	1 The equipment offered shall be a current model (Make year 2026 or latest) 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.	
20.	Warranty	Manufacturer shall provide a **minimum of one year warranty** after delivery	
21.	Initial Service	The initial servicing; parts and services that includes all necessary filter, lubricants and labor charges within warranty period shall be provided free of cost at any site/station within Nepal where the equipment is located. Bidder must submit detailed list of all necessary items for each Servicing.	
22.	Delivery	Truck mounted Crane, 10 units shall be delivered to: **The Department of Roads** **Heavy Equipment Division, ….., Nepal**	

Note:

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.**