नेपाल सरकार
पूर्वाधार विकास मन्त्रालय
सडक बिभाग
यान्त्रिक महाशाखा

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चाकुपाट, ललितपुर
कार्यालय कोड :३३७०१३५२०

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पत्र संख्या :- ४।०८३/८४
चलानी नम्बर :- १०१

मितिः- २०८३/०६/२२

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	**Infrastructure Ambulance (Road Pothole Maintenance Vehicle)**	Pcs	12			

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

Infrastructure Ambulance (Road Pothole Maintenance Vehicle) **Qty: 10 Unit**

S. No.	CRITERIA	DEPARTMENTAL REQUIREMENT	OFFERED SPECIFICATION
1.	General	**Right hand drive truck mounted Spray-Injection Pothole Patching Machine for road maintenance** on City Roads and highway. Suitable for operation in different road terrains of Nepal and in adverse climatic condition including rainy and cold weather.	Make: Model: Country of Origin:
2.	Truck Engine	Water cooled diesel engine developing **maximum power not less than 150 HP and maximum torque should not be less than 500 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 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:
3.	Cab	**Factory built standard 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 controls for distributer operation	
4.	Truck Performance	**Gross Vehicle weight: Not less than 16,000 kg** **Maximum climbing ability: Not less than 20%** **Minimum ground Clearance: Not less than 200 mm**	
5.	Emission Standard	The emission standard must be in compliance with or superior than the applicable **Standard as prescribed by "Nepal Vehicle Mass Emission Standard, 2082" which is to be certified by Department of Transport Management.**	
6.	Gauges	Gauges and meters as necessary for efficient operation and maintenance.	
7.	Clutch	Heavy duty disc type	
8.	Transmission	**Manual shift at least Six forward and one reverse**, all forward synchromesh.	
9.	Axles	Two Axles Front: Steel I section Rear: Heavy duty, fully floating	
10.	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.	
11.	Tires	Standard Size-Single front, Dual rear and spare one	

12.	Steering	**Power Assisted/ Power Steering**	
13.	Brakes	Fully air brake with mechanical parking brake and engine exhaust brake.	
14.	Chassis and frame	Heavy duty section channel steel	
15.	Essential Vehicle Accessories	1. 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 7. Reverse camera 8. Beacon light 9. High Intensity Flood Lamp To be equipped with all accessories offered in standard model but not limited to the above items.	
16.	Auxiliary Engine	Auxiliary Diesel Engine with maximum output power **not less than 45 hp** with electrical starting system for distributer system operation	
17.	Aggregate hopper	**5 Cu. M (±10%)**	
18.	Aggregate feed system	**Auger/Screw or Belt Conveyor type feed system**	
19.	Blower	Direct driven through auxiliary engine with air cleaner system.	
20.	Hydraulic pump	Pump directly coupled to engine	
21.	Hydraulic oil tank	Corrosion resistant type with level sight glass, magnetic drain plug, filter in return line	
22.	Water (cleaning) System	Corrosion resistance type pressurized water tank with minimum capacity of **minimum 75 Liter** and retractable water hose for cleaning of hose and emulsion lines.	
23.	Emulsion tank	Pressurized tank with **1000 Liter (±10%)** with Pressure gauge and compressor relief valve in supply line, safety valve and approx. 50 mm dump valve	
24.	Flush tank	Pressurized Flush tank with minimum **20-liter** capacity for nozzle cleaning	
25.	Overnight Heating system	Heating element in emulsion tank for overnight warming of emulsion	
26.	Delivery System	Pneumatic jet distributor with minimum 3 pieces of venture, flexible hose with nozzle for mixing the product Minimum 5-meter hose fully supported on minimum 3-meter hinged boom Mobility of Boom Minimum 270 degree	
27.	Controls	Full engine control, including safety shut down for high water temperature and low oil pressure Hydraulic control for conveyor speed, Throttle control, Selector switch for aggregate /sand/off. Emulsion valve and kerosene valve	

28.	Sand Box	Heavy duty type sand box with suitable size for finishing of patch work on city road.	
29.	Crack Filling Attachment	Emulsion spray wand with regulator, including rear mounting brackets and self-retracting reel	
30.	Safety for engine box	Fully insulated engine cover for blower, engine and compressor	
31.	Essential Accessories	• Sign rack, tool box, boot rack, broom rack, full width rear step, mudguards, ladder, pressurized water cleaning of emulsion lines, and separate water injection for aggregate line cleaning. • lights and rear warning panels • kerosene soak tank, water injection for cleaning hose, retractable hose reel, • **Vibratory Plate Compactor with operating weight not less than 60 kg.** • **Walk Behind Concrete/Asphalt Cutter powered by diesel/petrol engine of maximum power not less than 5 HP having maximum cutting depth not less than 100 mm.** To be equipped with all accessories offered in standard model but not limited to the above items.	
32.	Instructions	All signs and instructions in the equipment shall be in English	
33.	Manuals	1.One copy of the Operator's and Owner's Instructions and Maintenance manual in English shall be supplied with each Equipment 2.Ten copies of following manuals in English shall be supplied: i) Spare parts catalogue ii) Comprehensive workshop manual	
34.	Tools	A set of tools as required for general maintenance shall be supplied with in a lockable tool box for each unit	
35.	Color	Standard Color/ Construction yellow	
36.	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.	

37.	Related Service	***The supplier shall arrange and conduct training by the experts / 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 of the Department of Roads, in operation, maintenance and/or repair of the equipment supplied after delivery at site for five (5 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 include but not limited to following topics*** *i. General introduction and machine features.* *ii. Familiarization with Components* *iii. Operating system and safety features.* *iv. Various Applications* *v. Special attachment, versatile features* *vi. Productivity* *vii. Servicing/ Schedule maintenance* *viii. Engine system* *ix. Spray system* *x. Hydraulic system* *xi. Brake system* *xii. Cooling system* *xiii. Electric system* *xiv. Control system* xv. *Trouble shooting and diagnosis*	
38.	Initial Service	The supplier shall provide with the equipment all the necessary filters, spare parts and lubricants required for the first three services, after the equipment has been commissioned and accepted	
39.	Warranty	Manufacturer shall provide a minimum of **one year warranty** after acceptance**.**	
40.	Delivery	The truck mounted pothole patcher, RHD- 10 units shall be delivered to: Department of Roads, Heavy Equipment Division, Kathmandu, 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

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