

NCSC TECHNICAL SPECIFICATION for PURCHASE of **2023**
DUMP TRUCK

1- General-

- It is intent of these specifications whether or not specifically mentioned herein, to describe **Heavy Duty Dump Truck** with four-stroke direct injected turbo charged diesel engine.
- All items must be fully assembled with all necessary fittings and tested ready for immediate use.
- The **dump truck** described herein is to be used on asphalt and gravel roads in Quarry where temperature varies from 0°C to 40°C. The climate varies from humid to arid desert, and will work at an altitude from seal level to an average of **2250m** elevations.

2-Engine-

Four-stroke direct-injected, turbo charged diesel, water-cooled engine and wet replaceable cylinder liners. The engine must develop its rated horsepower and operate smoothly and efficiently with diesel fuel of a sulfur content of 1%.

- ✓ Fly-wheel horse power

The engine shall deliver minimum **336 HP** at fly wheel rated RPM.

- ✓ Engine performance curve shall be submitted.
- ✓ Required engine data

The supplier shall submit certified fuel consumption rate per km when the truck is under heavy load.

- ✓ Air cleaner

Heavy duty, with pre cleaner and equipped with dust evacuator.

3 Transmission -

- ✓ The transmission shall be heavy duty of manual and shall have a Minimum of 8 speeds forward and one reverse or if different shall be mentioned.

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4-Steering System-

- ✓ The truck shall be equipped with left hand. Hydraulic power assisted Steering system.

5-Electrical System-

- ✓ The electrical system shall be complete with 24v electric starting, charging and lighting system.

6-Brakes-

- ✓ The service brake shall be of current brake standard and capable of Controlling and holding the full loaded truck.
- ✓ The parking brake shall be of standard type.
- ✓ Engine brake shall be of standard type.

7-Lighting system-

- ✓ Lighting should comply with vehicular regulation.

8-Cab-

- ✓ The cab shall be of all steel construction with dust, heat and weather Proof windows and clear view windows.
- ✓ Instrument panel and control shall be near the operator in order to be easy for checking and controlling.
- ✓ Air conditioner, FM and AM radio modulator accessible for USB.

9-Wheels and tires-

- ✓ The truck shall be equipped with single front and dual rear wheels.
- ✓ The tires shall be of **12.00 R20 mm 18PR** with spare.

10-Suspension-

- ✓ Four independent, Nitrogen or oil-Pneumatic suspension cylinders that can absorb loading and road shocks.



11-Dump body-

- ✓ Capacity- The dump body shall have a minimum of **28 cubic meters** heaped Capacity (40 ton).
- ✓ The dump body shall be raised and lowered by hydraulic hoist of adequate number and size.
- ✓ The dump body should be robust body made of hardened and tempered, abrasion resistant steel plate body.
- ✓ The dump body should be made from appropriate material that can carry boulder of Limestone, Gypsum, Basalt, Rhyolite etc... And thickness and hardness shall be mentioned.
- ✓ Thickness of the dump body **Floor:12mm & side:8mm**
- ✓ Hardness of the dump body _____HRC

12-Axles and suspensions-

- ✓ The truck shall be equipped with heavy duty front and rear axles.
- ✓ Front axle- Shall be heavy duty "I beam" construction mounted on Heavy-duty, spring with extra shock absorber.
- ✓ Heavy duty semi elliptical front spring and extra heavy -duty rear springs.

13-Fuel system

- ✓ Fuel tank- The fuel tank shall be made from repairable steel material, and the capacity shall not be less than 300 liters

14-Cooling system

- ✓ Radiator- The radiator shall be heavy duty. It must be repairable Plastic made radiator is not acceptable.

15-Exhaust System

- ✓ The exhaust pipe shall have adequate protection to prevent burning or Damage of the electrical wiring fuel supply or other components of the truck.



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16. Field kits-

- ✓ The supplier shall submit list of line item and quantity required field kits of spare parts minimum for Three years.

17-Tools and Manual

- ✓ Set of ordinary and special tools with lubricant gun, wrenches.
- ✓ Wheel nut wrench and 30 tons hydraulic jack shall be furnished with each Dump Truck in tools box.
- ✓ At least two sets of English version manuals and technical literatures of the units shall be included
 - The sets of manuals shall consists but not limited to: -
 - Operators instruction and maintenance manual
 - Diagnostics & workshop repair manual
 - Spare parts catalogue

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