


Technical Specification Of Self Propelled Vibrating Roller:

Qty: 1

S.N.	CRITERIA	REQUIRED SPECIFICATION	OFFERED SPECIFICATION
1.	General	Self propelled, vibratory tandem roller with smooth vibratory steel drum in the front and rear with scraper for both direction, suitable for operation in road construction works (compaction of soil, gravel and bituminous asphalt) under rough working conditions at altitude upto 2500 m and in ambient temperature varying between -10°C to 50°C.	Make: Model: Country of Origin:
2.	Operating Weight	(9000 Kg \pm 5%)	
3.	Engine	Water Cooled, Four Strokes Diesel Engine developing SAE rated maximum net flywheel power not less than 75 HP at governed RPM. For efficient full load operation equipped with an adequate and efficient fuel injection mechanism, heavy duty fuel filter system, a heavy duty full flow lubricating oil filter, heavy duty radiator, heavy duty air cleaner, direct electric starting system, heavy duty battery and all necessary items/ gauges for efficient operation of engine.	Make: Model:
4.	Propulsion and Exciter Drive	Electronically/Hydraulically Controlled direct drive on both drum	
5.	Drum Dimension	Drum Width: Not less than 1600 mm	
6.	Emission Standard	The Emission Standard of the vehicle should comply with the Vehicle Mass Emission Standard of Nepal.	
7.	Gauges	Gauge: and meters as necessary for efficient operation and maintenance.	
8.	Vibrating system	Vibrating drum developing adequate Centrifugal force and frequency for powerful compaction with 2 stages	

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		vibrations; Vibration frequency = Minimum 30 Hz/50 Hz	
9.	Grade ability	Without Vibration: Not less than 36%	
10.	Steering	Articulated Hydraulic/Hydrostatic Steering	
11.	Brakes	Equipped with Service brake and Parking brake	
12.	Essential Accessories	<ul style="list-style-type: none"> • Automatic Water sprinkler system with 2 water pump and tank • Service Hour meter • Working lights front/ rear • Reverse alarm • ROPS Cabin/Canopy 	
13.	Instructions	All signs and instructions in the equipment shall be in English	
14.	Manuals	<ol style="list-style-type: none"> 1. One copy of the Operator's and Owner's Instructions and Maintenance manual in English shall be supplied with each equipment/vehicle 2. Two copies of following manuals in English shall be supplied with each equipment/vehicle: <ol style="list-style-type: none"> i) Spare parts catalogue ii) Comprehensive workshop manual (The supplied manuals shall be hard copy) 	
15.	Tools	A set of tools as required for general maintenance shall be supplied with in a lockable tool box for each unit	
16.	Color	Standard Color	
17.	Proven performance	<ol style="list-style-type: none"> 1. The machine offered shall be a 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. 	

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18.	Warranty	Manufacturer shall provide a minimum of one year warranty after acceptance.	
19.	Initial Service	The supplier shall provide with the equipment all the necessary filters and spare parts required for the first two services, after the equipment has been commissioned and accepted. OR The supplier shall arrange at its own cost the first two servicing, after the equipment has been commissioned and accepted	
20.	Delivery	<u>Self Propelled Vibratory Roller - 1 unit shall be delivered to:</u> Rapti Rural Municipality office of Rural Municipal executive, Masuria, dang, Nepal.	

- The bidder shall state as Fully complaint/ Partially complaint/ Non complaint.
- 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.

Prepared By:

Signature:

Name: Om Bahdur Thapa

Designation: Mechanical Engineer

Office: Mechanical Office Ghorahi, Dang

Approved By:



Cost Estimate for the Purchase of Self Propelled Vibrating Roller :

The major technical specifications of the Tractor that is intended to be purchased by Rapti Rural Municipality, Office of the Rural Municipal Executive, Masuria, Dang are as follows:

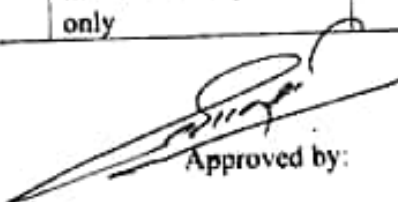
1. Type : Self Propelled Vibratory Roller
2. Power output at governed RPM: Not less than 75 HP
3. Propulsion and Exciter Drive: Electronically/Hydraulically controlled direct drive on both drum
4. Operating weight: Not less than (9000 Kg, $\pm 5\%$)
5. Steering: Articulated Hydraulic/Hydrostatic Steering
6. Essential Accessories: As per stated on Technical Specification
7. Warranty: A minimum of one year warranty after acceptance

Based on the past experiences of procurement, enquiries recently made with suppliers, and budget allocated for the procurement of Vibrating Roller, the cost of the Vibrating Roller intended to be purchased having above technical specification is estimated as below:

S. No.	Description	Quantity	Unit Estimated Cost (in NRs.) (Including VAT and other taxes)	Total Estimated Cost (in NRs.) (Including VAT and other taxes)	Remarks
1.	Self Propelled Vibratory Roller	1 unit	Appx. 40,00,000.00 In words: Forty Lakhs only	Appx. 40,00,000.00 In words: Forty Lakhs only	Estimated cost

Prepared by: Om Bahadur Thapa
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निर्वाह

Approved by: 

Om Bahadur Thapa
Mechanical Engineer
Mechanical Office
Ghorahi, Dang