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10 Magh 1431

29 January 2025

06.06.0000.221.Re-Eval RR(Med).25(P-2&3)

RE-EVALUATION OF ROAD ROLLER (MEDIUM)

Reference:

A. Army Headquarters, Engineer in Chiefs Branch, Engineer Directorate letter number 23.01.901.055.02.192.01.22.01.25/3 dated 23 January 2025 (Not to all).

1. It is to inform you that Bangladesh Army is planning to procure **Road Roller (Medium)**. Bangladesh Army needs to standardize more models for the subject equipment. Therefore, interested firms are requested to provide necessary offers, brochures, catalogues, technical/ training/operational/ maintenance manuals etcetera (each in duplicate) for the standardization of the said equipment. The detailed information/documents have to be sent directly to **Army Headquarters, Engineer in Chief's Branch, Engineer Directorate, mail: engrdte@army.mil.bd by 06 February 2025** with an intimation to this Directorate General please. Please note that, the offered models should be compatible with updated technical specification attached as Annex A to this letter. Short fall of any information will disqualify the offer. Also, kindly be requested to provide enlistment certificate of DGDP along with the offer.

2. Following models of the said equipment were standardized. You are requested to provide following information/documents against the models:

Serial	Make & Model	Local Agent	Remarks
1.	Make: HAMM & Model: Latest Production	M/S Sayara Sorboraho & Nirman	a. Current production status Certificate from principal/ manufacturer along with seal & signature (If no longer in production) or
2.	Make: Caterpillar & Model: CB10 or Latest Production	M/S Pace Solution	
3.	Make: Rhino & Model: RCT or Latest Production	M/S Taj & Company	b. Any amendment from the enclosed updated technical specification or
4.	Make: Sunward & Model: SWE12 or Latest Production	M/S HL Traders	c. Confirming the compliance of existing standardized model with the updated technical specification.

3. Your co-operation will be highly appreciated.


MD ZAHIDUL KABIR
Major
For Director General

Enclosure:

1. Technical Specification of Road Roller (Medium)-05 (Five) pages Only.

Distribution:

External:

Action:

(All Concerned Firm/Supplier)

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Information:

Army Headquarters, General Staff Branch, Weapon, Equipment and Statistics Directorate

Army Headquarters, Engineer in Chief's Branch, Engineer Directorate

Army Headquarters, Master General of Ordnance Branch, Ordnance Directorate

Internal:

Action:

IT Section - **(For flashing on DGDP web site).**

Notice Board

ANNEX A
DGDP LETTER NO
06.06.0000.221.RE-EVAL RR(MED).25(P-2&3)
DATED: 29 JANUARY 2025

TECHNICAL SPECIFICATION OF ROAD ROLLER (MEDIUM)
(OPERATING WEIGHT 8.1 TO 12 TON)
(Approved in General Staff Policy Committee Meeting 2/2013)

Ser	Description	Required Technical Specification	Remarks
<u>Part-1: General Specification</u>			
1.	Name of the Equipment	Road Roller (Medium)	
2.	Name and Complete Address of the Local Agent (Address, Telephone, Fax, E-mail and website)	To be mentioned	
3.	Name and Complete Address of the Manufacturer (Address, Telephone, Fax, E-mail and website)	To be mentioned	
4.	Name and Address of the Principal (Address, Telephone, Fax, E-mail and website)	To be mentioned	
5.	Make and Model	To be mentioned	
6.	Type	Vibratory Asphalt Compactor	
7.	Country of Origin	Group A Countries	
8.	Country of Manufacturer	Group A and B Countries	
9.	Country of Assembly		
10.	Year of Production	Not before the year of contract	
<u>Part-2: Technical Specification</u>			
11.	Drive	Centre Drive	
12.	<u>Dimensions</u>		
	a. Overall Length	Min 4500 mm	
	b. Overall Width	Min 1750 mm	
	c. Overall Ht	Min 2850 mm	
	d. Wheel Base	Min 3200 mm	
13.	<u>Engine</u>		
	a. Make & Model	To be mentioned	
	b. Type	Diesel, Liquid/Air cooled	
	c. Country of Origin	Group A Countries	
	d. Country of Manufacturer		
	e. Country of Assembly		
	f. Year of Production	Not before the year of contract	
	g. Engine volume/Capacity (in CC)	To be mentioned	
	h. Rated Horse Power with rpm	121-150 HP @ rpm to be mentioned	
	j. Minimum Torque at rated rpm	470 N-m @ rpm to be mentioned	

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Ser	Description	Required Technical Specification	Remarks
	k. No of Cylinder	Minimum 4 Cylinder	
	l. No of Cycle/stroke	4 Stroke	
	m. Bore & Stroke	Minimum 100 mm x 120 mm	
	n. Cooling System	Water Cooled	
	p. Displacement	To be mentioned	
	q. Engine test bench certificate	During Pre-shipment Inspection Engine Test Bench Report (for each model) which was prepared by manufacturer during production of engine at factory premises must be produced and submitted to the PSI team (duly signed and stamped by the manufacturer). Other engines (mentioning engine number) of the same model must be certified confirming the engine Test Bench Report by the manufacturer (duly signed and stamped)	
14.	Fuel tank Capacity	Minimum 180 Litre	
15.	Fuel Consumption	To be mentioned	
16.	Drum		
	a. Type	Double drum, Asphalt Compactor	
	b. Drum width	Minimum 1650 mm	
	c. Drum diameter	Minimum 1150 mm	
	d. Drum shell thickness	Minimum 17 mm	
	e. Scrapper for both drum	To be provided	
	f. Weight		
	(1) At front drum	Minimum 4500 kg	
	(2) At rear drum	Minimum 4400 kg	
17.	Capacity of Water Tank	Not less than 400 liter in each drum	
18.	Water Sprinkling System	To be mentioned	
19.	Vibrating System		
	a. Vibration type & drive	To be mentioned	
	b. Vibration frequency (Hz)	Range to be mentioned	
	c. Vibration centrifugal force (kN)	To be mentioned	
20.	Turning Radius (Maximum)		
	a. Inside drum edge	Not less than 3950 mm	
	b. Outside drum edge	Not more than 7350 mm	
21.	Steering System	Power Steering	
22.	Frame	Oscillating, Articulated	
23.	Operating weight	8 to smaller than 12 ton	
24.	Gradient/Gradeability	Not less than 30% (Without vibration)	
25.	Speed		
	a. Forward	Not less than 06 Km/h	
	b. Reverse	Not less than 06 Km/h	
26.	Cabin	Cabin with ROPS to be provided	

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Ser	Description	Required Technical Specification	Remarks
27.	<u>Brake System</u>		
	a. Service brake	Hydrostatic	
	b. Parking brake	Mechanical/Hydraulic	
28.	<u>Electric System</u>		
	a. Volt	12/24 Volt	
	b. Battery (Volt and Ah)	12 Volt/2x12 Volt & Ah to be mentioned	
	c. Alternator (Volt and Amp)	12/24 Volt & Amp to be mentioned	
	d. Starter (Volt and Kw)	12/24 Volt & Kw to be mentioned	
29.	Lights & Gauges	All lights & gauges include head light, Tail light, Stop light, Indicator light, Working (flood) light, Horn, hr meter, Freq meter, Tachometer, Battery indicator, Engine oil pressure, Engine temp, Hydraulic oil gauge, Back up alarm and Bacon to be provided	
30.	List of Standard Accessories	All standard accessories required to make the equipment fully operation (List to be submitted with part no and cost)	
31.	List of Standard Tools	All standard tools require for complete maintenance of the equipment (List to be submitted with cost)	
32.	Optional Item (if any)	List with cost to be mentioned	
33.	Info about POL used in the equipment	To be mentioned	
34.	Colour	As per tender requirement	
35.	ISO Certificate or Similar Rating	ISO Certificate to be provided by the manufacturer	
36.	Operational Temperature	-5 ⁰ C to +55 ⁰ C	
37.	Maintenance	Details to be mentioned	
38.	<u>Petrol Oil & Lubricant (POL) Information</u>	The following information must be submitted with the offer:	
	a. Detail maintenance schedule of vehicle and engine	Information to be submitted in compatible with Bangladesh Army	
	b. Grade of diesel used in vehicle		
	c. Type of engine oil (equivalent grade) used in vehicle		
	d. Type of gear oil (equivalent grade) used in vehicle		

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Ser	Description	Required Technical Specification	Remarks
<u>Part-3: Training Requirement</u>			
39.	a. User Trg	To be provided (As per requirement of Engr Dte)	
	b. Op, repair and maint Trg	To be provided (As per requirement of EME Dte)	
	c. Eqpt mgt Trg	To be provided (As per requirement of Ord Dte)	
<u>Part-4: Repair and Maintenance Requirement Less List of Spares</u>			
40.	a. Books & Publications		
	(1) Owners/Operations Manual in English (Book Type including CD/DVD)	To be provided (As per requirement of EME Dte)	
	(2) 100% Updated Master Spare Parts Catalogue in English (Book Type including CD/DVD)	To be provided (As per requirement of EME Dte)	
	(3) Complete and Updated Master Spare Parts price Catalogue in English (Book Type including CD/DVD)	To be provided (As per requirement of EME Dte)	
	(4) Workshop/Repair Manual in English (Book Type)	To be provided (As per requirement of EME Dte)	
<u>Part-5: List of Spares</u>			
41.	List of Fast and Slow Moving Spare Parts	To be provided (As per requirement of EME Dte)	
<u>Part-6: Tool List for Different Level of Maintenance</u>			
42.	a. Analyzer, measuring & testing/Fault finding and diagnostic set	To be provided (As per requirement of EME Dte)	
	b. Special Service Tools (SST)	To be provided (As per requirement of EME Dte)	
	c. Special Service Materials (SSM)	To be provided (As per requirement of EME Dte)	
43.	Certificate on spare parts availability in Bangladesh	Certificate to be submitted from manufacturer	
44.	List and certificate on usage of the equipment by other organizations or agencies in Bangladesh	List and certificate to be submitted from manufacturer	
45.	List and certificate of local after-sales-service workshop in Bangladesh who can provide spares of the equipment readily	To be confirmed by the manufacturer as the technical requirement	
46.	Detailed address of after-sales-service workshop in Bangladesh	Details address to be mentioned	

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Ser	Description	Required Technical Specification	Remarks
47.	Location of Stage Inspection/ Pre-Shipment Inspection	Stage inspection/Pre-Shipment Inspection with address of respect of major components (manufacturing plant/assembly plant or in both)	
48.	Note: Following information's/documents to be supplied along with the offer:		
	a. Details of working principle	Details mentioned in the operation manual	
	b. Functional/Users training in country to be provided by foreign/Local expert	Functional/user training in country will be provided by Tadano trained Local expert/ engineers	
	c. Provision of supply of major spares for minimum 10 years	Certificate to be submitted	
	d. Provision of supply fast and slow moving spares for minimum 15 years	Certificate to be submitted	
	e. Model validity in years (minimum 10 years)	Certificate to be submitted	
	f. List of spares, Special Service Tools (SST)/Special Service Material (SSM)	To be provided (As per requirement of EME Dte)	
	g. Any other relevant technical information may also be enclosed	To be mentioned	