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19 January 2025

06.06.0000.221.Re-Eval Motor Grader.25(P-2&3)

RE-EVALUATION OF MOTOR GRADER

Reference:


A. Army Headquarters, Engineer in Chiefs Branch, Engineer Directorate letter number 23.01.901.055.02.192.01.22.01.25/27 dated 23 January 2025 (Not to all).

1. It is to inform you that Bangladesh Army is planning to procure **Motor Grader**. 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: Komatsu & Model: Motor Grader GD 511A-1	M/S Three A Enterprise	a. Current production status Certificate from principal/ manufacturer along with seal & signature (If no longer in production) or b. Any amendment from the enclosed updated technical specification or c. Confirming the compliance of existing standardized model with the updated technical specification.
2.	Make: HBM & Model: BG 160T-4	M/S Palash Engineering Works	
3.	Make: Case & Model: 845B	M/S ACI Limited	
4.	Make: Caterpillar & Model: 120	M/S Pace Solution	

3. Your co-operation will be highly appreciated.



MD ZAHIDUL KABIR
Major
For Director General

Enclosure:

1. Technical Specification of Motor Grader-05 (Five) pages Only.

Distribution:

External:

Action:

(All Concerned Firm/Supplier)

Information:

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

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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 MOTOR
GRADER.25(P-2&3)
DATED: 29 JANUARY 2025

TECHNICAL SPECIFICATION OF MOTOR GRADER
(Approved in General Staff Policy Committee Meeting 2/2013)

Ser	Description	Required Technical Specification	Remarks
Part-1: General Specification			
1.	Name of the Equipment	Motor Grader	
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 Complete Address of the Principal (Address, Telephone, Fax, E-mail and website)	To be mentioned	
5.	Make & Model	To be mentioned	
6.	Country of Origin	Group A Countries	
7.	Country of Assembly	Group A and B Countries	
8.	Country of Manufacturer		
9.	Year of Production	Not before the year of contract	
Part-2: Technical Specification			
10.	Moldboard		
	a. Type	To be mentioned	
	b. Make and Model	To be mentioned	
	c. Country of Origin	To be mentioned	
	d. Blade Length	Minimum 3650 mm	
	e. Blade Height	Minimum 550 mm	
	f. Arc Radius	To be mentioned	
	g. Blade Thickness	Minimum 16 mm	
	h. Cutting Edge Thickness	Minimum 16 mm	
	j. End Bits Thickness	Minimum 16 mm	
	k. Side Shift, RH/LH	Hydraulic	
	l. Circle Rotation	360 ⁰	
	m. Maximum Blade Position Angle	90 ⁰	
	n. Blade Pitch	Minimum 25 ⁰	
	p. Maximum Lift above Ground	Minimum 400 mm	
	q. Maximum Cutting Depth	Minimum 700 mm	
11.	Scarifier		
	a. Type & Location	To be mentioned	
	b. Make and Model	To be mentioned	
	c. Country of Origin	To be mentioned	

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Ser	Description	Required Technical Specification	Remarks
	d. No of teeth	Minimum 5 Nos	
	e. Working Depth	Minimum 1060 mm	
	f. Scarifying Depth	Minimum 220 mm	
	g. Shanks Holders	To be mentioned	
	h. Shanks Holder Spacing	Minimum 110 mm	
	j. Weight	Minimum 550 Kg	
	k. Any Other Related Information	To be mentioned	
12.	Overall Dimension		
	a. Length of Basic tractor	Minimum 7600 mm	
	b. Width, Rear Tires Center Line	Minimum 2000 mm	
	c. Width, Outside Tires	Minimum 2400 mm	
	d. Length with Blade	Minimum 7800 mm	
	e. Width with blade	Minimum 3600 mm	
	f. Width without blade	Minimum 2350 mm	
	g. Height, High Profile Cab	Minimum 3100 mm	
	h. Height Beacon Light Mounted	To be mentioned	
	j. Height to Exhaust Pipe	Minimum 2800 mm	
13.	Weight		
	a. Gross Vehicle Weight in Kg	Minimum 10,000 kg	
	b. Operating Weight in Kg	Minimum 10,000 kg	
14.	Minimum Ground Clearance	Minimum 360 mm	
15.	Minimum Turning Radius	Maximum 8 m	
16.	Gradeability	Minimum 20°	
17.	Maximum Traveling Speed	Forward – Minimum 36 km/h Reverse – Minimum 24 km/h	
18.	Hydraulic Pressure	To be mentioned	
19.	Wheel Base	To be mentioned	
20.	Tread		
	a. Front	To be mentioned	
	b. Rear	To be mentioned	
21.	No of Wheel with spare	Minimum 6 Numbers	
22.	Engine		
	a. Make & Model	To be mentioned	
	b. Type of Engine	Diesel Engine with Turbocharged	
	c. Country of Origin	Group A Countries	
	d. Country of Assembly	Group A and B Countries	
	e. Country of Manufacturer		
	f. Rated Horse Power with rpm	Minimum 125 HP @ rpm to be mentioned	
	g. Year of Production	Not before the year of contract	
	h. Number of cylinder	Minimum 6 Cylinder	
	j. Bore and Stroke	Minimum 90 mm x 110 mm	
	k. Minimum Torque with rpm	Minimum 430 N-m @ minimum 1500 rpm	
	l. Displacement	Minimum 4.80 liters	
	m. Fuel System	To be mentioned	
	n. Fuel Tank Capacity	Minimum 220 liters	
	p. Type of Fuel	Diesel	

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Ser	Description	Required Technical Specification	Remarks
	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)	
23.	Air Cleaner	To be mentioned	
24.	Cooling System	Water cooled	
25.	Electric System		
	a. Volt	24 Volt	
	b. Battery (Volt & Ah)	2x 12 Volt & Ah to be mentioned	
	c. Alternator (Volt & Amp)	24 Volt & Amp to be mentioned	
	d. Starter (Volt & Kw)	24 Volt & KW to be mentioned	
26.	Light System	Headlight, Turn Signal, Tail, Stop, Work, Backup and other standard accessories to be provided	
27.	Transmission		
	(a) Make & Model	To be mentioned	
	(b) Country of origin	Group A Country	
	(c) Country of Manufacturer	Group A & B Country	
	(d) Country of Assembly		
	(e) Year of production	Not before the year of Contract	
	(f) No of Gear/Type	To be mentioned	
28.	Axle		
	(a) Number of axle	To be mentioned	
	(b) Axle drive	To be mentioned	
	(c) Country of origin	Group A Country	
	(d) Country of manufacture	Group A & B Country	
	(e) Year of production	Not before the year of contract	
	(f) Type of front axle	Details to be mentioned	
	(g) Type of Rear axle	Details to be mentioned	
29.	Brake System		
	a. Service Brake		
	b. Parking Brake	Details to be mentioned	
	c. Any other brake		
30.	Steering System	To be mentioned	
31.	Tyre		
	a. Tyre Size front & rear	To be mentioned	

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Ser	Description	Required Technical Specification	Remarks
	b. Brand	Bridgestone/Dunlop/Goodyear/Yokohama/Toyo/ Uniroyal/ Continental/Folda/Michelin/Firestone/ Armstrong/AMTEL and Pirelli	
	c. Tyre Country of Origin	USA, Japan, EU countries, Russia, Brazil, Indonesia, Malaysia, Philippines, Singapore and Thailand	
	d. Type of Pattern	ND, GG & CC Earth mover tyre	
	e. Rim Size Front & Rear	To be mentioned	
32.	ROPS Cab/Canopy	Cab with ROPS to be provided	
33.	Standard Accessories	Details List to be submitted	
34.	Standard Tools	Details List to be submitted	
35.	<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		
36.	Colour	As per tender requirement	
37.	Performance to ISO Certificate or Similar Rating	ISO certificate to be provided by the manufacturer	
38.	Operational Temperature	-5 ⁰ C to + 55 ⁰ C	
39.	Maintenance	Details to be mentioned	
<u>Part-3: Training Requirement</u>			
40.	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>			
41.	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)	

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Ser	Description	Required Technical Specification	Remarks
	(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>			
42.	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>			
43.	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)	
44.	Certificate on spare parts availability in Bangladesh	Certificate to be submitted from manufacturer	
45.	List and certificate on usage of the equipment by other organizations or agencies in Bangladesh	List and certificate to be submitted from manufacturer	
46.	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	
47.	Detailed address of after-sales-service workshop in Bangladesh	Details address to be mentioned	
48.	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)	
49.	<u>Note:</u> 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	