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25 July 2017

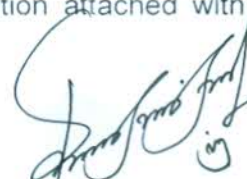
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**RE-EVALUTION OF MOTOR GRADER**

Reference:

A. Army Headquarters, Engineer in Chief's Branch, Engineer Directorate letter number 23.01.901.055.02.192.03.17.07.17/Motor Grader dated 17 July 2017.

It is to inform you that standardization of suitable models of **Motor Grader** for adoption in Bangladesh Army is under process. Therefore, all interested Firms/Suppliers are requested to forward necessary offer, brochures, catalogues, technical/training/operational/maintenance manuals and price list etcetera (each in duplicate) against each model directly to AHQ, E-in-C's Branch, Engineer Directorate by 30 July 2017. Offered models should be compatible with specification attached with this letter. Lack of any information will disqualify the offer.



SYED ASHIQUL ISLAM  
Major  
For Director General

Enclosure:

1. 02 Pages Technical Specification.

Distribution:

External:

Action:

(All Concerned Firm/Supplier)

Information:

Army Headquarters  
E-in-C's Branch  
Engineer Directorate

Internal:

Action:

IT Section - (For sending to enlisted Supplier/Firm with DGDP through email).

Notice Board

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

Ser	Description	Required Technical Specification	Remarks
1.	Name of the Equipment	<b>Motor Grader</b>	
2.	Name and Complete Address of the Local Agent	To be mentioned	
3.	Name and Complete Address of the Manufacturer	To be mentioned	
4.	Name and Complete Address of the Principal	To be mentioned	
5.	Make & Model	To be mentioned	
6.	Country of Origin	USA, Canada, UK, Austria, Belgium, Denmark, Finland,	
7.	Country of Assembly	Germany, France, Hungary, Italy, Ireland, Netherlands,	
8.	Country of Manufacturer	Sweden, Norway, Switzerland, Spain, Japan, Australia, Turkey, South Korea and Brazil.	
9.	Year of Production	Maximum 1 year before the contract	
10.	<b>Moldboard</b>		
	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°	
	m. Maximum Blade Position Angle	90°	
	n. Blade Pitch	Minimum 25°	
	p. Maximum Lift above Ground	Minimum 400 mm	
	q. Maximum Cutting Depth	Minimum 700 mm	
11.	<b>Scarifier</b>		
	a. Type & Location	To be mentioned	
	b. Make and Model	To be mentioned	
	c. Country of Origin	To be mentioned	
	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.	<b>Overall Dimension</b>		
	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.	<b>Weight</b>		
	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 200	
17.	Maximum Traveling Speed	Forward - Minimum 36 km/h Reverse - Minimum 24 km/h	

Ser	Description	Required Technical Specification	Remarks
18.	Hydraulic Pressure	To be mentioned	
19.	Wheel Base	To be mentioned	
20.	<b>Tread</b>		
	a. Front	To be mentioned	
	b. Rear	To be mentioned	
21.	No of Wheel with spare	Minimum 6 Nos	
22.	<b>Engine</b>		
	a. Make & Model	To be mentioned	
	b. Country of Origin	USA, Canada, UK, Austria, Belgium, Denmark, Finland, Germany, France, Hungary, Italy, Ireland, Netherlands, Sweden, Norway, Switzerland, Spain, Japan, Australia, Turkey, South Korea and Brazil.	
	c. Type of Engine	Diesel Engine with Turbocharged	
	d. Rated Horse Power with rpm	Minimum 125 HP @ minimum 2000 rpm	
	e. Year of Production	Maximum 1 year before the contract	
	f. No of cylinder	Minimum 6 Cylinder	
	g. Bore and Stroke	Minimum 90 mm x 110 mm	
	h. Minimum Torque with rpm	Minimum 430 N-m @ minimum 1500 rpm	
	j. Displacement	Minimum 4.80 liters	
	k. Fuel System	To be mentioned	
	l. Fuel Tank Capacity	Minimum 220 liters	
	m. Fuel Type	Diesel	
	n. Engine test bench certificate	To be provided during inspection of equipment	
23.	Air Cleaner	To be mentioned	
24.	Cooling System	Water cooled	
25.	<b>Electric System</b>		
	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	Details to be mentioned	
28.	<b>Axle</b>		
	a. No of Axle	To be mentioned	
	b. Axle Drive	To be mentioned	
29.	Brake System	Details Parking and Service Brake are to be mentioned	
30.	Steering System	To be mentioned	
31.	<b>Tyre</b>		
	a. Tyre Size front & rear	To be mentioned	
	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 mentioned	
34.	Standard Tools	Details List to be mentioned	
35.	Details of POL used in the equipment	Diesel	
36.	Colour	As per tender require	
37.	Performance to ISO or Similar Rating	ISO certificate to be provided by the manufacturer	
38.	Operational Temperature	-5°C to + 55°C	
39.	Maintenance	Details to be mentioned	
	<b>Note:</b> Following information's/documents to be supplied along with the offer:		
	a. Details of working principle.		
	b. Functional/Users training in country to be provided by foreign/Local expert.		
	c. Provision of supply of major spares for minimum 10 years.		
	d. Provision of supply fast and slow moving spares for minimum 10 years.		
	e. Model validity in years (minimum 10 years).		
	f. List of spares, Special Service Tools (SST)/Special Service Material (SSM).		
	g. Any other relevant technical information may also be enclosed.		