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29 January 2025

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

RE-EVALUATION OF CRANE (MEDIUM)

Reference:

A. Army Headquarters, Engineer in Chiefs Branch, Engineer Directorate letter number 23.01.901.055.02.192.01.22.01.25/8 dated 23 January 2025 (Not to all).

1. It is to inform you that Bangladesh Army is planning to procure **Crane (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: TADANO Rough Terrain Crane & Model: GR-300EX	Electro Mart limited	a. Current production status Certificate from principal/ manufacturer along with seal & signature (If no longer in production) or
2.	Make: Uritimpark & Model: HB90T3RT	Euro Bangla Limited	
3.	Make: SOCAGE S.r.l. & Model: ARM350	MNS Equipment Services	b. Any amendment from the enclosed updated technical specification or
4.	Make: Kato & & Model: SR-300R	Ramco International	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 Crane Medium-06 (Six) 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 CRANE
(MED).25(P-2&3)
DATED: 29 JANUARY 2025

TECHNICAL SPECIFICATION OF CRANE MEDIUM
(20 TO SMALLER THAN 50 TON CAPACITY)
(Approved in General Staff Policy Committee Meeting 6/2014 & 9/2019)

Ser	Description	Required Technical Specification	Remarks
<u>Part-1: General Specification</u>			
1.	Name of the Equipment	Crane Medium	
2.	Name and Complete Address of Local Agent (Address, Telephone, Fax, E-mail and website)	To be mentioned	
3.	Name and Complete Address of Manufacturer (Address, Telephone, Fax, E-mail and website)	To be mentioned	
4.	Name and Complete Address of Principal (Address, Telephone, Fax, E-mail and website)	To be mentioned	
5.	Make & Model	To be mentioned	
6.	Type	To be mentioned	
7.	Country of Origin	Group A Countries	
8.	Country of Assembly	Group A and B Countries	
9.	Country of Manufacturer		
10.	Year of Production	Not before the year of contract	
<u>Part-2: Technical Specification</u>			
11.	<u>Overall Dimension</u>		
	a. Overall Length	To be mentioned	
	b. Overall Width	To be mentioned	
	c. Overall Height	To be mentioned	
12.	Lifting capacity	20 to smaller than 50 ton	
13.	Maximum lifting height (Meters)	To be mentioned	
14.	Gradeability	Minimum 25 ⁰	
15.	Turning radius	Maximum 8 m	
16.	Ground clearance	Minimum 250 mm	
17.	Weight of Crane without vehicle	To be mentioned	
18.	<u>Crane Specification</u>		
	a. Boom type	Telescopic	
	b. Number of section of boom	Minimum 3 section	
	c. Fly Jib length	To be mentioned	
	d. Boom derricking angle	To be mentioned	
	e. Boom extending time	To be mentioned	
	f. Boom length retracted	Maximum 10 m	
	g. Boom length fully extended	Minimum 20 m	

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Ser	Description	Required Technical Specification	Remarks
	h. Lifting speed with full load	To be mentioned	
	j. Outriggers		
	(1) Type	Hydraulic telescopic with control and crane level indicator located in cab	
	(2) Number	Minimum Four	
	(3) Extended width	Max and minimum to be mentioned	
	(4) Float size diameter	To be mentioned	
	k. Hook Capacity	Compatible with Crane maximum load capacity	
	(1) Main	Minimum 20 Ton	
	(2) Auxiliary	Minimum 3 Ton	
	l. Hoisting line speed		
	(1) Main winch	Minimum 80 m/min	
	(2) Auxiliary winch	Minimum 80 m/min	
	m. Boom swing/rotation angle	360°	
	n. Boom steering speed	To be mentioned	
	p. Wire rope for hoisting		
	(1) Main winch		
	(a) Type	To be mentioned	
	(b) Dia	Minimum 12 mm	
	(c) Length	Minimum 135 m	
	(2) Auxiliary Winch		
	(a) Type	To be mentioned	
	(b) Dia	Minimum 15 mm	
	(c) Length	Minimum 90 m	
	(3) Self Recovery Winch	Compatible with Crane Load capacity	
	q. Hydraulic cooling system	To be mentioned	
	r. Oil Pump	To be mentioned	
	s. Hoisting Motor	To be mentioned	
	t. Slewing Motor	Hydraulic	
	u. Oil reservoir capacity	Minimum 390 liters	
	v. Pulling system	To be mentioned	
	w. Sling Rope	Minimum 30 Ton load capacity	
	x. Out rigger pad	To be mentioned	
	y. Maximum pulling capacity		
	(1) Main	To be mentioned	
	(2) Auxiliary	To be mentioned	
	z. Cab system		
	(1) Operator cabin	Details to be mentioned with dash board including Air condition to be provided	
	aa. Safety device	To be mentioned	
19.	Truck		
	a. Make & Model	To be mentioned	
	b. Country of Origin	Group A Country	

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Ser	Description	Required Technical Specification	Remarks
c.	Country of Manufacturer	Group A and B Countries	
d.	Country of Assembly		
e.	Year of production	Not before the year of contract	
f.	Drive	4x4	
g.	Overall Dimension (LxHxW) in mm	To be mentioned	
h.	Wheel base in mm	To be mentioned	
j.	Wheel tread front & rear	To be mentioned	
k.	Rear axle load in kg	To be mentioned	
l.	Front axle load in kg	To be mentioned	
m.	Vehicle kerb weight	To be mentioned	
n.	Gross vehicle weight	To be mentioned	
p.	Engine Specification		
	(1) Make & Model	To be mentioned	
	(2) Type	To be mentioned	
	(3) Country of origin	Group A Country	
	(4) Country of Manufacturer	Group A and B Countries	
	(5) Country of Assembly		
	(6) Year of production	Not before the year of contract	
	(7) Rated HP with rpm to be mentioned	Minimum 201-250 Horse Power at rated rpm to be mentioned	
	(8) Maximum torque with rpm to be mentioned	To be mentioned	
	(9) Number of Cylinder	Minimum 6 Cylinder	
	(10) Bore and stroke in mm	To be mentioned	
	(11) Type of Fuel	Diesel	
	(12) Cooling system	Water Cooled	
	(13) Piston displacement	To be mentioned	
	(14) Engine test bench certificate	To be provided during inspection of equipment	
q.	Clutch		
	(1) For Truck	To be mentioned	
	(2) For Crane	To be mentioned	
r.	Transmission		
	(1) Make & Model	To be mentioned	
	(2) Country of origin	Group A Country	
	(3) Country of Manufacturer	Group A & B Country	
	(4) Country of Assembly		
	(5) Year of production	Not before the year of Contract	
	(6) No. of Gear/Type	To be mentioned	
s.	Speed		
	(1) Minimum on cross country (km/h)	To be mentioned	
	(2) Traveling speed (km/h) on road	Minimum 30 km/hr	
	(3) Mobility at different terrain condition	Details of mobility on loose soil, mud, construction sites, river beds etc to be mentioned	

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Ser	Description	Required Technical Specification	Remarks
t.	<u>Axles</u>		
(1)	Type of front axle	Details to be mentioned	
(2)	Type of rear axle	Details to be mentioned	
(3)	Differential locks	Details to be mentioned	
(4)	Country of origin	Group A Country	
(5)	Country of manufacture	Group A & B Country	
u.	Steering system	Hydraulic power steering	
v.	<u>Suspension</u>		
(1)	Front	To be mentioned	
(2)	Rear	To be mentioned	
w.	<u>Hydraulic System (Pump)</u>		
(1)	Country of origin	Group A Country	
(2)	Country of manufacture	Group A & B Country	
(3)	Country of assembly		
(4)	Year of production	Not before year of production	
x.	<u>Brake System</u>		
(1)	Service brake	Details to be mentioned	
(2)	Parking brake	Details to be mentioned	
(3)	Auxiliary brake	Details to be mentioned	
y.	<u>Electrical System</u>		
(1)	Volt	24 Volt	
(2)	Battery (Volt & Ah)	Volt & AH to be mentioned	
(3)	Alternator (Volt & Amp)	Volt & Amp to be mentioned	
(4)	Starter (Volt & Kw)	Volt & Kw to be mentioned	
z.	<u>Tyre size</u>		
(1)	No of tyre	To be mentioned	
(2)	Spare wheel with lifting facilities	To be mentioned	
(3)	Size & Ply rating	To be mentioned	
(4)	Tyre Brand	Bridgestone/Dunlop/Goodyear/ Yokohama/Toyo/Uniroyal/Conti nental/ Michelin/Folda/Firestone/Armst rong/ AMTEL/Pirelli/ Hankook/Kumho	
(5)	Tyre Country of Origin	USA, Japan, EU countries, Russia, Brazil, Indonesia, Malaysia, Philippines, Singapore, Thailand and South Korea	
(6)	Type of Pattern	Non-directional, Ground Grip/Cross country (ND, GG/CC)	
(7)	Rim Size	To be mentioned	
20.	Fuel tank capacity	Minimum 200 Liters	

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Ser	Description	Required Technical Specification	Remarks
21.	All lights & Gauges	All lights and gauges include head light, Tail, Stop, Indicator, Work, Backup and other standard accessories to be provided	
22.	Colour	As per tender requirement	
23.	Standard Tools		
	a. Tools for crane	Details list to be submitted	
	b. Tools for engine		
	c. Accessories		
24.	Petrol Oil Lubricant (POL) Information. The following information must be submitted with the offer:		
	a. Detail maintenance schedule of Equipment & Engine	Information to be submitted	
	b. Grade of diesel used in Equipment	Required information to be submitted in compatible with Bangladesh Army	
	c. Type of Engine Oil used in Equipment		
	d. Type of gear Oil used in Equipment		
25.	Optional items (if any)	List to be submitted (if any)	
26.	Operational Temperature	-5°C to +55°C	
27.	Maintenance	Details to be mentioned	
28.	ISO certificate or Similar Rating	ISO certificate to be provided by the manufacturer	
29.	Certificate on spare parts availability in Bangladesh	Certificate to be submitted from manufacturer	
30.	List and certificate on usage of the equipment by other organizations or agencies from Bangladesh	List and certificate to be submitted from manufacturer	
31.	List and certificate of local after-sales-service workshop from Bangladesh who can provide spares of the equipment readily	To be confirmed by the manufacturer as the technical requirement	
32.	Detailed address of after-sales-service workshop in Bangladesh	Details to be mentioned	
33.	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)	
34.	List of standard spares	List of standard spares to be provided	
Part-3: Training Requirement			
35.	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)	

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Ser	Description	Required Technical Specification	Remarks
<u>Part-4: Repair and Maintenance Requirement Less List of Spares</u>			
36.	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>			
37.	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>			
38.	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)	
39.	Certificate on spare parts availability in Bangladesh	Certificate to be submitted from manufacturer	
40.	List and certificate on usage of the equipment by other organizations or agencies in Bangladesh	List and certificate to be submitted from manufacturer	
41.	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	
42.	Detailed address of after-sales-service workshop in Bangladesh	Details address to be mentioned	
43.	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	