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24 July 2017

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**RE-EVALUTION OF CRANE MEDIUM (CRANE 20-30 TON)**

Reference:

A. Army Headquarters, Engineer in Chief's Branch, Engineer Directorate letter number 23.01.901.055.02.192.02.16.07.17/Crane dated 16 July 2017.

It is to inform you that standardization of suitable models of **Crane Medium (Crane 20-30 Ton)** 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 25 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. 04 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

ANNEX A TO  
 ARMY HEADQUARTERS, ENGINEER IN CHIEF'S BRANCH  
 ENGINEER DIRECTORATE LETTER NUMBER  
 23.01.901.055.02.192.04.16.07.17  
 DATED 16 JULY 2017

**TECHNICAL SPECIFICATION OF CRANE MEDIUM (CRANE 20 - 30 TON)**  
**(Approved in General Staff Policy Committee Meeting 6/2014)**

Ser	Description	Required Technical Specification	Remarks
1.	Name of the Equipment	<b>Crane Medium (Crane 20-30 Ton)</b>	
2.	Name and Complete Address of Local Agent	To be mentioned	
3.	Name and Complete Address of Manufacturer	To be mentioned	
4.	Name and Complete Address of Principal	To be mentioned	
5.	Make & Model	To be mentioned	
6.	Type	To be mentioned	
7.	Country of Origin	USA, Canada, UK, Austria, Belgium, Denmark, Finland, Germany, France, Hungry, Italy, Ireland, Netherlands, Sweden, Norway, Switzerland, Spain, Japan, Australia, Turkey and South Korea.	
8.	Country of Assembly		
9.	Country of Manufacturer		
10.	Year of Production	Maximum 1 year before the contract	
11.	<b>Overall Dimension</b>		
	a. Overall Length	To be mentioned	
	b. Overall Width	To be mentioned	
	c. Overall Height	To be mentioned	
12.	Lifting capacity with working radius	Minimum 20 Ton at minimum 3.0 m working radius	
13.	Maximum lifting height (Meters)	To be mentioned	
14.	Gradiability	Minimum 25°	
15.	Turning radius	Maximum 8 m	
16.	Ground clearance	Minimum 250 mm	
17.	Weight of Crane without vehicle	To be mentioned	
18.	<b>Crane Specification</b>		
	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	
	h. Lifting speed with full load	To be mentioned	
	j. <b>Outriggers</b>		
	(1) Type	Hydraulic telescopic with control and crane level indicator located in cab	
	(2) Number	Minimum Four	
	(3) Extended width	Maximum and minimum to be mentioned	
	(4) Float size diameter	To be mentioned	
	k. <b>Hook Capacity</b>		
	(1) Main	Minimum 20 Ton	
	(2) Auxiliary	Minimum 3 Ton	



Ser	Description	Required Technical Specification	Remarks
l.	<b>Hoisting line speed</b>		
	(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.	<b>Wire rope for hoisting</b>		
	(1) <b>Main winch</b>		
	(a) Type	To be mentioned	
	(b) Dia	Minimum 12 mm	
	(c) Length	Minimum 135 m	
	(2) <b>Auxiliary Winch</b>		
	(a) Type	To be mentioned	
	(b) Dia	Minimum 15 mm	
	(c) Length	Minimum 90 m	
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.	<b>Maximum pulling capacity</b>		
	(1) Main	To be mentioned	
	(2) Auxiliary	To be mentioned	
x.	<b>Cab system</b>		
	(1) Operator cabin	<b>Details to be mentioned with dash board including Air condition to be provided</b>	
y.	Safety device	To be mentioned	
19.	<b>Truck</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 and South Korea.	
c.	Country of Manufacturer		
d.	Country of Assembly		
e.	Year of production	Maximum 1 year before the contract	
f.	Drive	4x4, RHD	
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	

Ser	Description	Required Technical Specification	Remarks
m.	<b>Engine Specification:</b>		
	(1) Make & Model	To be mentioned	
	(2) Type	To be mentioned	
	(3) Country of origin	USA, Canada, UK, Austria, Belgium,	
	(4) Country of Manufacturer	Denmark, Finland, Germany, France,	
	(5) Country of Assembly	Hungry, Italy, Ireland, Netherlands, Sweden, Norway, Switzerland, Spain, Japan, Australia, Turkey and South Korea.	
	(6) Year of production	Maximum 1 year before the contract	
	(7) Rated HP with rpm to be mentioned	Minimum 140 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	
n.	<b>Clutch</b>		
	(1) For Truck	To be mentioned	
	(2) For Crane	To be mentioned	
p.	Transmission (No of Gear/Type)	To be mentioned	
q.	<b>Speed</b>		
	(1) Minimum on cross country (km/h)	To be mentioned	
	(2) Traveling speed (km/h) on road	Minimum 30 km/h	
	(3) Mobility at different terrain condition	Details of mobility on loose soil, mud, construction sites, river beds etc to be mentioned	
r.	<b>Axles</b>		
	(1) Front	Details to be mentioned	
	(2) Rear	Details to be mentioned	
	(3) Different locks	Details to be mentioned	
s.	Steering system	Hydraulic power steering	
t.	<b>Suspension</b>		
	(1) Front	To be mentioned	
	(2) Rear	To be mentioned	
u.	<b>Brake System</b>		
	(1) Service brake	Details to be mentioned	
	(2) Parking brake	Details to be mentioned	
	(3) Auxilliary brake	Details to be mentioned	
v.	<b>Electrical System</b>		
	(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	



Ser	Description	Required Technical Specification	Remarks
w.	<b>Tyre size</b>		
	(1) No of tyre	To be mentioned	
	(2) Size & Ply rating	To be mentioned	
	(3) Tyre Brand	Bridgestone/Dunlop/Goodyear/ Yokohama/Toyo/Uniroyal/ Continental/ Michelin/Folda/Firestone/Armstrong/ AMTEL/Pirelli/ <b>Hankook/Kumho.</b>	
	(4) Tyre Country of Origin	USA, Japan, EU countries, Russia, Brazil, Indonesia, Malaysia, Philippines, Singapore, Thailand <b>and South Korea.</b>	
	(5) Type of Pattern	Non-directional, Ground Grip/ Cross country (ND, GG/CC)	
	(6) Rim Size	To be mentioned	
20.	Fuel tank capacity	Minimum 150 Liters	
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.	<b>Standard Tools</b>		
	a. Tools for crane	Details list to be submitted	
	b. Tools for engine	Details list to be submitted	
	c. Accessories	Details list to be submitted	
24.	<b>Petrol Oil Lubricant (POL) Information. The following information must be submitted with the offer:</b>		
	a. Detail maintenance schedule of Equipment & Engine	Information to be submitted	
	b. Grade of diesel used in Equipment	Information to be submitted	
	c. Type of Engine Oil used in Equipment	Information to be submitted	
	d. Type of gear Oil used in Equipment	Information to be submitted	
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	
	<b>Note:</b> Following information's/documents to be submitted along with the offer:		
	a. Details of working principle.		
	b. Functional/User 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. List of Standard Service Tools (SST)/ Standard Service Material (SSM).		
	h. Any other relevant technical information may also be enclosed.		