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06.06.0000.221.Re-Eval (Crane Light).24(P-2&3)

30 December 2024

RE-EVALUATION OF CRANE LIGHT

Reference:

A. Army Headquarters, Engineer in Chiefs Branch, Engineer Directorate letter number 23.01.901.055.02.192.01.24.12.24 dated 24 December 2024 (Not to all).

1. It is to inform you that Bangladesh Army is planning to procure **Crane Light** for UN MSN. Bangladesh Army needs to standardize more models for the equipment. Therefore, interested firms are requested to provide necessary offers, brochures, catalogues, technical/training/operational/maintenance manuals and budgetary offers 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 05 January 2025** with an intimation to this Directorate General please. Please note that, the offered models should be compatible with 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 technical offer.

2. **For Board of Officer, C/O: Army Headquarters, Engineer in Chief's Branch, Engineer Directorate Only:** Price can be disclosed during the tender process only.

3. Your co-operation will be highly appreciated.


MD ZAHIDUL KABIR
Major
For Director General

Enclosure:

1. Technical Specification of Crane Light-05 (Five) pages Only.

Distribution:

External:

Action:

(All Concerned Firm/Supplier)

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

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ANX A
 AHQ, E IN C'S BR (ENGR DTE)
 LTR NO. 23.01.901.055.02.192.01.24.12.24
 DT: 24 DEC 2024

TECHNICAL SPECIFICATION OF CRANE LIGHT

Ser	Description	Required Technical Specification	Remarks
1.	Name of the Equipment	Crane Light	
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	Gp A and B Countries	
8.	Country of Assembly		
9.	Country of Manufacturer		
10.	Year of Production	Not before the year of contract	
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	Minimum 10 Ton Maximum 19.9 Ton	
13.	Operation	Hydraulic	
14.	Working Radius	To be mentioned	
15.	Lifting height (Meters)	Maximum: To be mentioned Minimum: 5 m (With Maximum Load)	
16.	Grade ability	Minimum 25°	
17.	Turning radius	To be mentioned	
18.	Ground clearance	Minimum 250 mm	
19.	Weight of Crane without vehicle	To be mentioned	
20.	Operation details (panel indicator to be provided in operator cabin to monitor following operation)		
	a. Boom inclination	To be mentioned	
	b. Boom length	To be mentioned	
	c. Load weight	To be mentioned	
	d. Maximum load (maximum load in particular angle with specific length of boom)	To be mentioned	
21.	<u>Crane Specification</u>		
	a. Boom type	Telescopic	
	b. Country of Origin	Gp A and B Countries	
	c. Country of Assembly		
	d. Country of Manufacturer		
	e. Number of section of boom	Minimum 3 section	
	f. Fly Jib length	To be mentioned	
	g. Boom derricking angle	To be mentioned	
	h. Boom extending time	To be mentioned	
	j. Boom length retracted	To be mentioned	
	k. Boom length fully extended	To be mentioned	
	l. Lifting speed with full load	To be mentioned	
	m. Swing/Rotation Speed (rpm)	To be mentioned	
	n. Swing system	Hydraulic	
	p. <u>Outriggers</u>		
	(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	
	q. <u>Hook Capacity</u>		

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Ser	Description	Required Technical Specification	Remarks
	(1) Main	Minimum capacity should be more than the kerb weight of the Crane+Truck	
	(2) Auxiliary	Minimum 1.5 Ton	
r.	Hoisting line speed		
	(1) Main winch	Minimum 80 m/min	
	(2) Auxiliary winch	Minimum 80 m/min	
	(3) Maximum single line rope pull KN	To be mentioned	
s.	Boom swing/rotation angle	360°	
t.	Boom steering speed	To be mentioned	
u.	Wire rope for hoisting		
	(1) Main winch		
	(a) Type	To be mentioned	
	(b) Dia	To be mentioned	
	(c) Length	To be mentioned	
	(d) Single line rope pull KN	To be mentioned	
	(1) High range (Meters/Min)	To be mentioned	
	1) Normal range (Meters/Min)	To be mentioned	
	(2) Auxiliary Winch		
	(a) Type	To be mentioned	
	(b) Dia	To be mentioned	
	(c) Length	To be mentioned	
	(d) Single line rope pull KN	To be mentioned	
	i. High range (Meters/Min)	To be mentioned	
	ii. Normal range (Meters/Min)	To be mentioned	
v.	Hydraulic cooling system	To be mentioned	
w.	Oil Pump	To be mentioned	
x.	Hoisting Motor	To be mentioned	
y.	Slewing Motor	Hydraulic	
z.	Oil reservoir capacity	Minimum 150 liters	
aa.	Pulling system	To be mentioned	
bb.	Maximum pulling capacity		
	(1) Main	To be mentioned	
	(2) Auxiliary	To be mentioned	
cc.	Cab system		
	(1) Operator cabin	Details to be mentioned with dash board including Air condition to be provided	
dd.	Safety device	To be mentioned	
22.	Truck		
	a. Make & Model	To be mentioned	
	b. Country of Origin	Gp A and B Countries	
	c. Country of Manufacturer		
	d. Country of Assembly		
	e. Year of production	Not before the year of 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	
	p. Engine Specification		
	(1) Make & Model	To be mentioned	
	(2) Type	To be mentioned	

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Ser	Description	Required Technical Specification	Remarks
	(3) Country of origin	Gp A and B Countries	
	(4) Country of Manufacturer		
	(5) Country of Assembly		
	(6) Year of production	Not before the year of contract	
	(7) Rated HP with rpm to be mentioned	Minimum 140-200 Horse Power at rated rpm to be mentioned	
	(8) Maximum torque with rpm to be mentioned	To be mentioned	
	(9) Number of Cylinder	Minimum 4 Cylinder	
	(10) Bore and stroke in mm	To be mentioned	
	(11) Type of Fuel	Diesel	
	(12) Cooling system	To be mentioned	
	(13) Piston displacement	To be mentioned	
	(14) Engine test bench certificate	"During 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 Inspection 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.	Transmission.		
	a. Make & Model	To be mentioned	
	b. Type	To be mentioned	
	c. Country of origin, manufacturer & assembly	Gp A and B Countries	
	d. No of gears/Type	To be mentioned	
24.	Chassis Frame.		
	a. Country of Origin	Gp A and B Countries	
	b. Country of Manufacture		
	c. Country of Assembly		
	d. Type	To be mentioned	
	e. Length, width, height and thickness of chassis frame	To be mentioned. Diagram/catalogue to be provided with offer.	
	f. Chassis frame Resistance to Bending Moment	The truck chassis must be capable to resist the bending movement of the payload. The chassis will not be cracked/fractured and no other defects will arise up to 10 years. (Chassis manufacturer's certificate to be provided with details calculation).	
	q. Clutch		
	(1) For Truck	To be mentioned	
	(2) For Crane	To be mentioned	
	r. Transmission (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 20 km/h	
	(3) Mobility at different terrain condition	Details of mobility on loose soil, mud, construction sites, river beds etc to be mentioned	
	t. Axles		
	(1) Front	Details to be mentioned	
	(2) Rear	Details to be mentioned	
	(3) Different locks	Details to be mentioned	
	u. Steering system	Hydraulic power steering	
	v. Suspension		
	(1) Front	To be mentioned	
	(2) Rear	To be mentioned	

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Ser	Description	Required Technical Specification	Remarks
	w. Brake System		
	(1) Service brake	Details to be mentioned	
	(2) Parking brake	Details to be mentioned	
	(3) Auxiliary brake	Details to be mentioned	
	x. Electrical System		
	(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	
	y. Tyre size		
	(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/ Hankook/Kumho	
	(4) Tyre Country of Origin	USA, Japan, EU countries, Russia, Brazil, Indonesia, Malaysia, Philippines, Singapore, Thailand and South Korea	
	(5) Type of Pattern	Non-directional, Ground Grip/ Cross country (ND, GG/CC)	
	(6) Rim Size	To be mentioned	
25.	Fuel tank capacity	Minimum 180 Liters	
26.	All lights & Gauges	All lights and gauges include head light, Tail, Stop, Indicator, Work, Backup and other standard accessories to be provided	
27.	Colour	As per indenters requirement	
28.	Standard Tools		
	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	
29.	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	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	
30.	Optional items (if any)	List to be submitted (if any)	
31.	Operational Temperature	-5°C to +55°C	
32.	Maintenance	Details to be mentioned	
33.	ISO certificate or Similar Rating	ISO certificate to be provided by the manufacturer	
34.	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)	
35.	Certificate on spare parts availability in Bangladesh	Certificate to be submitted from manufacturer.	
36.	Detailed address of after-sales-service workshop in Bangladesh	Details to be mentioned	
Part-3: Training Requirement			
37.	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
Part-4: Repair and Maintenance Requirement Less List of Spares			
38.	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)	
Part-5: List of Spares			
39.	List of Fast and Slow Moving Spare Parts	To be provided (As per requirement of EME Dte)	
Part-6: Tool List for Different Level of Maintenance			
40.	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)	
41.	Note: Following information's/ documents to be submitted along with the offer:		
	a. Details of working principle	Details mentioned in the operation manual	
	b. Functional/User 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 10 years	Certificate to be submitted	
	e. Model validity in years (minimum 10 years)	Certificate to be submitted	