

**TENDER SPECIFICATION OF MOBILE CRANE LIGHT (CAPACITY: 10 TON)
FOR SHER-E-BANGLA**

1. **Name of the Equipment.** Mobile Crane Light (Capacity: 10 Ton).
2. **Purpose.** The Mobile Crane Light will be used to lift/shift heavy machinery/equipment inside the Naval Base.
3. **Quantity.** 1 (One).
4. **Manufacturer, Principal Supplier & Local Supplier.** Name and full address are to be mentioned.

Ser	Description	Remarks
a.	Brand/Manufacture	KATO(Japan)/ Tadano(Japan)/ Uretimpark (Türkiye)/ Locatelli (Italy)/ Iskar (Türkiye)
b.	Principal Supplier	To be mentioned
c.	Local Supplier	To be mentioned

5. **Year of Manufacture.** 2024 or later. The item should be brand new and original.
6. **Country of Origin.** Japan/ Türkiye/ Italy.
7. **Manufacturing Country.** Same as the Country of Origin.
8. **Certificate/Document of Authentication.** The local supplier must provide the following original certificate(s)/ document(s) with the offer/quotation of items as regard to the genuinity of the source and item(s) to establish a chain of links from the original source to supply:
 - a. One certificate/ document from the manufacturer in favour of the supplier (in the case of the manufacturer as the direct source).
 - b. Two certificates/ documents, one from the manufacturer to the authorised agent and the other from the authorised agent to the supplier (in case the authorised agent is the immediate source).
 - c. Three certificates/ documents, first one by the manufacturer to the authorised agent, second one by the authorised agent to the sub-agent and third one by the sub-agent to the supplier (in case of the sub-agent as immediate source). If the supplier is unable to obtain the first certificate (by the manufacturer to an authorised agent), then relevant documents to prove the agency-ship of its claimed agent of the recognised manufacturer need to be produced.
9. **Standard.** The Mobile Crane Light is to be designed and constructed according to international standards. The standard to which the quoted Mobile Crane Light complies is to be specified in detail (ISO/ABS/BV/LR/DNV/ANSI/NCCCO or any other equivalent global standard).

10. **Ambient Condition.**

Ser	Description	Remarks
a.	Air Temperature	5°C to 45°C
b.	Relative Humidity (RH)	Up to 95%(non-condensing)
c.	Location	Close to the seashore or hilly area

11. **Scope of Supply.** The scope of supply is to include the following:

- a. 01 x Mobile Crane Light, with all items necessary for immediate operation without the requirement of any other items (attachments, accessories, consumables, etc) (as per paragraphs 12 to 19).
- b. Optional Items and spare parts (as per paragraphs 20 and 21).
- c. Tools and special tools (as per paragraphs 22 and 23).
- d. Documents (user manual, maintenance manual, spare parts catalogue, drawings, etc, as applicable) and Certificates (as per paragraphs 24 and 25).
- e. Test, Trial and Acceptance (as per paragraph 26).
- f. Training (as per paragraph 28).
- g. Pre-Shipment Inspection (PSI) and Factory Acceptance Test (FAT) (as per paragraph 29).
- h. Warranty and Guarantee (as per paragraphs 30 and 31).
- j. Any other relevant issue (if any).

12. **Technical and Operational Data.** Detail technical and operational data of the Mobile Crane Light are to be provided as follows:

Ser	Description	Remarks
a.	Name and Type	: To be mentioned
b.	Model	: To be mentioned
c.	Country of Origin	: EU Countries (to be mentioned)/ USA/ UK/ Canada/ Japan/ Turkiye
d.	Country of Manufacture	: EU Countries (to be mentioned)/ USA/ UK/ Canada/ Japan/ Turkiye
e.	Capacity	: Not less than 10 Tons (Necessary details must be included as per paragraph 15)

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Ser	Description	Remarks
f.	Overall Dimension of the crane	
	(1) Length	: To be mentioned
	(2) Width	: To be mentioned
	(3) Height	: To be mentioned
g.	Weight of the crane	
	(1) Gross weight	: To be mentioned
	(2) Front axle weight	: To be mentioned
	(3) Rear axle weight	: To be mentioned
h.	Performance	
	(1) Max. Travelling Speed	: To be mentioned
	(2) Economic Travelling Speed	: To be mentioned
	(3) Gradeability (tan θ)	: To be mentioned
j.	Boom	
	Partially synchronized telescoping boom of round hexagonal box construction.	
	(1) Fully retracted length	: To be mentioned
	(2) Fully extended length	: To be mentioned
	(3) Extension speed	: To be mentioned
k.	Elevation	
	(1) Boom angle (min-max)	: To be mentioned.
	(2) Boom raising speed	: To be mentioned.
l.	Hoist – Main Winch	
	Variable speed type grooved drum equipped with automatic brake (neutral brake) and counterbalance valve, controlled independently of auxiliary winch, equipped with cable follower and drum rotation indicator. Details are to be mentioned as follows:	
	(1) Max single line pull/ upward movement	: To be mentioned.
	(2) Single line speed	: To be mentioned.
	(3) Wire rope diameter x length	: To be mentioned.
	(4) Drum capacity	: To be mentioned.
(5) Winch motor	: To be mentioned.	
m.	Hoist – Auxiliary Winch	
	Variable speed type grooved drum equipped with automatic brake (neutral brake) and counter-balance valve, controlled independently of main winch, equipped with cable follower and drum rotation indicator. Details are to be mentioned as follows:	
	(1) Max single line pull/upward movement	: To be mentioned.
	(2) Single line speed	: To be mentioned.
	(3) Wire rope diameter x length	: To be mentioned.
	(4) Drum capacity	: To be mentioned.
(5) Winch motor	: To be mentioned.	
n.	Slewing	

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Ser	Description	Remarks
	Continuous 360° full circle slewing.	
	(1) Slewing speed	: To be mentioned.
	(2) Slewing motor	: To be mentioned.
p.	Outriggers	
	Hydraulic, vertically supporting with float and vertical cylinder.	
	(1) Maximum extended length	: To be mentioned.
	(2) Minimum extended length	: To be mentioned.
q.	Ground clearance (High ground clearance will be preferable)	: To be mentioned.
	Tires	
	(1) Front	: Size to be mentioned.
	(2) Rear	: Size to be mentioned.
r.	Axles	
	(1) Front axle type	: To be mentioned.
	(2) Rear axle type	: To be mentioned.
s.	Transmission	
	Electronically controlled fully automatic transmission	: Transmission details are to be specified
t.	Steering System	
	Hydraulic power steering is controlled by the steering wheel. Following steering mode to be specified:	
	(1) 4-wheel coordinated	: To be mentioned.
u.	Emergency Steering System	
	The type and detail of the emergency steering system are to be specified	: To be mentioned.
v.	Brake System	: To be mentioned.
w.	Pad Out Rigger	
	A minimum 2 pairs of pad outriggers are to be supplied with the crane	: To be mentioned.
x.	Covers	
	Crane water proof cover is to be provided	

13. **Engine.** Detail description of the engine is to be provided which should include the following:

Ser	Description	Remarks
a.	Type	Four-stroke diesel engine
b.	Model	To be mentioned
c.	Maker/ Manufacturer	EU Countries (to be mentioned)/ USA/ UK/ Canada/ Japan/ Türkiye
d.	No of cylinders	To be mentioned
e.	Piston displacement (cc)	To be mentioned

f.	Maximum output (horsepower)	To be mentioned
g.	Maximum output (torque)	To be mentioned
h.	Transmission	To be mentioned
j.	Battery	Seal type
m.	Fuel	Diesel
n.	Fuel tank capacity	To be mentioned
p.	Cooling system	To be mentioned

14. **Chassis.** The Mobile Crane Light should be constructed with high tensile steel, all welded mono-box construction. A detailed description of the construction of the chassis is to be provided with the quotation.

15. **Load Rating Charts.** The offer will include Load Rating Charts for different radius-height combinations.

16. **Cab Control and Instruments.**

a. The crane and drive operations can be performed from one cab mounted on a rotating superstructure. The cab should be one-sided, one-man type, steel construction with sliding door access and tinted safety glass windows opening at the side. The cab is to be air-conditioned with dash-mounted engine start/stop, monitor lamps, power window switch, emergency engine stop switch, slewing brake switch, boom telescoping/auxiliary winch select switch, eco mode switch, and slewing free/ lock selector switch. The instrument panel in front of the driver should include the following:

Ser	Description
(1)	Lighting switches
(2)	Engine low oil pressure light
(3)	Air pressure gauge (if applicable)
(4)	Fuel content gauge
(5)	Speedometer
(6)	Flashing indicator light
(7)	Safe load indicator and load meter
(8)	Inclinometer

b. Following controls are to be conveniently located:

Ser	Description
(1)	Hand brake and emergency brake
(2)	Gear lever
(3)	Stability lock control lever
(4)	Slew parking brake
(5)	Operating levers spring centred for hoist, derrick, slew and telescoping

- c. Standard equipment which are to be fitted with the crane are:

Ser	Description
(1)	Overhead fan
(2)	Windscreen
(3)	Wiper with washer
(4)	Warning horns
(5)	Different lights, including spotlight and floodlight

17. **Safety Devices.** The Mobile Crane Light must include all required safety devices according to international standards (as mentioned in paragraph 9). A list of safety devices in the Mobile Crane Light is to be provided with the offer.
18. **Hydraulic Equipment.** A detailed description of the construction and function of the hydraulic system is to be provided with the quotation. The standard to which the equipment conforms is to be specified. Capacity of the oil reservoirs, RPM and discharge rate of the pump, circuit pressure etc, are to be specified.
19. **Standard Accessories.** Standard accessories must include all items and accessories essential for operating the Mobile Crane Light, whether mentioned in the specification or not. The price of standard accessories is to be included in FOB value. However, an itemised price list of standard accessories is to be provided with the offer for reference value only.
20. **Optional Items.** The quotation should include a list of optional items (if any) required to operate Mobile Crane Light. Only the prices of selected items by BN will be added to the total price when evaluating the comparative prices of the suppliers.
21. **Spare Parts.** A recommended list of spare parts required for 05 years of satisfactory operation must be provided, indicating the itemised price. Only the prices of selected items by BN will be added to the total price while evaluating the comparative price of the suppliers.
22. **Tools.** 1 (one) set of standard tools for the maintenance of Mobile Crane Light is to be provided, indicating itemised price. The quantity and size of these tools are to be mentioned in the quotation. The price will be added to the total cost while evaluating the comparative price of the suppliers.
23. **Special Tools.** A recommended list of special tools required for carrying out maintenance of Mobile Crane Light is to be submitted with the quotation indicating itemised price. That price will be added to the total price while evaluating the comparative price of the suppliers.
24. **Documents.** 2 (two) sets of the following documents in English are to be supplied with Mobile Crane Light (free of cost):

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- a. The instruction manual including technical specifications, installation, operation, and maintenance.
- b. Spare parts catalogue and its components.
- c. Factory test certificate/performance certificate.

25. **Certificates.** The manufacturer must give a certificate, which will form a part of the contract, stating that all the mechanical, electrical, and electronic components of the crane and its control system are currently in production. The following certificates should be provided with the crane as per international standards:

- a. Load certificates.
- b. Rope certificates.
- c. Safety certificate.
- d. Certificates for hook's load.
- e. Others as per standard practice and classification rules.

26. **Test, Trial and Acceptance.** The buyer will carry out tests and trials of the item at Chattogram in the presence of the supplier's representative. After satisfactory test and trial, an acceptance certificate will be signed jointly by the supplier's representative and the buyer's representative.

27. **Record of Sales.** Record of sales of the quoted model of the Mobile Crane Light indicating year and buyer with full address is to be submitted with the quotation.

28. **Training.** The supplier's/manufacturer's installation engineer will provide operation and maintenance training in Bangladesh to the operators for 5 (five) days after the Mobile Crane Light is tested, trialed, and commissioned. The bidder will quote the cost of training separately in their financial offer. The supplier will bear the cost of the trainers' transportation, accommodation, food, medical support, etc.

29. **Pre-Shipment Inspection (PSI) and Factory Acceptance Test (FAT).**

a. Pre-shipment Inspection (PSI) and Factory Acceptance Test (FAT) will be carried out by 2 (two) BN officers for 3 (three) days, excluding the journey period, at the buyer's expense. The supplier should inform the buyer about the date, schedule and procedure of PSI and FAT at least 8 (eight) weeks prior to the commencement of the said PSI and FAT. After inspection, a joint inspection report will be prepared and signed by both the seller and buyer's representatives.

b. On return from the country of supplier, the BN officers will submit a report to DNE. DNE, through DTS, will, in turn, forward the final decision along with the PSI and FAT report within 2 (two) weeks, based on which DGDP will render clearance for the shipment of

stores to the supplier concerned. The supplier will not ship any item of the contract without clearance from the DGDP.

c. All types of movement/ transportation (air, sea, road, rail) of the BN officer within the manufacturer/ supplier's country, reception and arrangement for entry into the country/ concerned area for the PSI and FAT are to be borne by the supplier.

30. **Warranty.** The principal/manufacturer will give a warranty for trouble-free operation for at least one year from the date of acceptance by the buyer. During the warranty period, if the Mobile Crane Light remains non-operational due to any action pending by the supplier, the warranty will be extended for the same period. The warranty covers all parts and labour (including the cost of the service engineer) throughout the warranty period.

31. **Guarantee.** The manufacturer will guarantee to supply the spare parts for at least 5 (five) years at a reasonable price. The annual increase in the price of spares should not be more than 5% of the price list provided with the quotation.

32. **Shipment.**

a. The supplier will arrange the shipment of all items by sea to Chittagong Port, Bangladesh.

b. All items are to be delivered in sea-worthy packing to ensure safe transportation by sea.

c. All packages must have detailed packing notes showing their contents, and they must be marked with the consignee's name, address, and gross weight.

d. The supplier will arrange transportation of all supplied items from Chittagong port to the NSD Chattogram.

e. **Port of Shipment.** Any port of the manufacturing country. In case of shipment through any port of the manufacturer's authorised dealer, the relevant manufacturer's certificate is to be provided as proof of the genuineness of the offered item.

33. **Delivery.**

a. The items are to be delivered within **9 (Nine) months** from the date of signing the contract to the following consignee:

The Commanding Officer
Naval Stores Depot Chattogram
New Mooring, Chattogram, Bangladesh

b. **Place of Delivery.** NSD Chattogram.

c. The supplier will carry the items from Chittagong Port to NSD Chattogram at the cost and risk of the supplier.

34. **Validity of Offer.** The offer should remain valid till 180 days from the date of tender opening.
35. **Currency.** Foreign Currency.
36. **Terms of Payment.** L/C for the full purchase amount will be opened in favour of the principal supplier under the following payment terms:
- a. 80% of the total CFR value will be paid on delivery of the items described under the scope of supply and on production of necessary shipping documents.
 - b. The remaining 20% of the CFR value will be paid for producing an 'Acceptance Certificate' after a satisfactory test and trial jointly carried out by the buyer's and supplier's representatives.
37. **Condition for Acceptance of Quotation.** The quotation has to have supporting documents (booklets, leaflets, catalogues, brochures, etc.) with detailed particulars of the Mobile Crane Light. If detailed information regarding specifications, maker's books and catalogue for the quoted model of the Mobile Crane Light, spare parts, accessories, scope of supply, etc, are not provided, the quotation will not be accepted.
38. **Compliance Statement.** A compliance statement fulfilling all the requirements of the tender is to be submitted with the offer for evaluation of the quotations. Merely stating 'Yes' or 'No' will not suffice, rather detailed descriptions/information as required are to be provided. An incomplete compliance statement may contribute to the cancellation of the offer. If any clause of this specification is not commensurate with the offered Mobile Crane Light, the deviation must be spelt out clearly.