

ANNEXURE B TO
DGDP CONTRACT NO.
214.1282.20
DATED 29 JUNE 2021

TECHNICAL SPECIFICATION OF CRANE (MEDIUM) (LIFTING CAPACITY 20 TON TO SMALLER THAN 50 TON) MAKE: URETIMPARK, MODEL: HB90T3RT, TURKEY COMPLETE WITH STANDARD TOOLS AND ACCESSORIES

Ser	Description	Specification Specified
1	Name of the Equipment	Crane (Medium) (Lifting capacity 20 Ton to smaller than 50 Ton)
2	Name and Complete Address of Local Agent	M/S AB International, Chayabithi Ba-1177/1, Level-06, South Badda, Gulshan, Dhaka-1212, Bangladesh
3	Name and Complete Address of Manufacturer	
4	Name and Complete Address of Principal	AL BAYAN GENERAL TRADING LLC Ahmed Bin Majid Street Steet, Al-Mairid, Ras A1 Khairmah, P.O. Box 645, UAE.
5	Make and Model	Make: Model:
6	Type	Rough Terrain
7	Country of Origin	Turkey
8	Country of Assembly	Turkey
9	Country of Manufacturer	Turkey
10	Year of Production	Not before the year of contract
11	Overall Dimension	
	a. Overall Length	11350 mm
	b. Overall Width	2600 mm
	c. Overall Height	3700 mm
12	Lifting capacity with working radius	25 t @ 3 m working radius
13	Maximum lifting height (Meters)	32 m with telescopic boom, 42 m with jib boom
14	Grade ability	25°
15	Turning radius	Max 8 m
16	Ground clearance	300 mm
17	Weight of Crane without vehicle	12 Ton without vehicle
18	Crane Specification	
	a. Boom type	Telescopic box type boom
	b. Boom country of origin, manufacturer and assembly	Turkey
	c. Number of section of boom	1 fix + 3 telescopic (4 section)
	d. Fly Jib length	8 m + 6 m = 14 m
	e. Boom derricking angle	0-82°
	f. Boom extending time	75 second
	g. Boom length retracted	9.5 m
	h. Boom length fully extended	32 m
	i. Lifting speed with full load	16 m/min
	Outriggers	
	(1) Type	Hydraulic telescopic with control and crane level indicator located in cab
	(2) Number	04 (Four)
	(3) Extended width	Maximum: 6300 mm Minimum: 2600 mm
	(4) Float size diameter	400 mm



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Ser	Description	Specification Specified
l.	Hook Capacity.	
	(1) Main	25 ton
	(2) Auxiliary	5 ton
m.	Hoisting Line Speed.	
	(1) Main winch	135 m/min
	(2) Auxiliary winch	135 m/min
n.	Boom swing/rotation angle	360°
p.	Boom steering speed	3 rpm
q.	Wire Rope for Hoisting.	
	(1) Main Winch.	
	(a) Type	Hydraulic motor drive planetary gear box
	(b) Dia	16 mm
	(c) Length	150 m
	(2) Auxiliary Winch.	
	(a) Type	Hydraulic motor drive planetary gear box
	(b) Dia	16 mm
	(c) Length	120 m
r.	Hydraulic cooling system	Hydraulic oil cooling system
s.	Oil Pump	Variable Displacement type pump 320 l/min
t.	Hoisting Motor	Hydraulic axial piston type
u.	Slewing Motor	Hydraulic axial piston type
v.	Oil reservoir capacity	420 Liters/
w.	Pulling system	Hydraulic motor works with planetary gear box. Controlled independently by respective operating lever.
x.	Maximum Pulling Capacity.	
	(1) Main	5000 kg single layer
	(2) Auxiliary	5000 kg single layer
y.	Cab System.	
	Operator cabin	All steel fabricated with acoustical lining and tinted safety glass throughout. Deluxe seat incorporates armrest-mounted electric dual-axis controllers. Dash panel incorporates gauges for all engine functions. Till steering wheel, cab circulating air fan, air condition, sliding side and rear windows, sliding skylight with electric wiper and sunscreen, electric windshield wash/wipe.
z.	Safety device	Voice alarm Slewing stop system Outrigger detector Boom load holding valve system Over hoist prevent system Automatic brake all planetary system Slewing lock Hydraulic oil temp warning

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Ser	Description	Specification Specified
19.	Truck.	
a.	Make and Model	
b.	Country of origin	Turkey
c.	Country of manufacturer	Turkey
d.	Country of assembly	Turkey /
e.	Year of production	Not before the year of contract
f.	Drive	4x4 RHD
g.	Overall dimension (LxHxW) in mm	11350 mm x 3700 mm x 2600 mm
h.	Wheel base in mm	3600 mm
j.	Wheel tread front and rear	Front: 2250 mm Rear: 2250 mm
k.	Rear axle load in kg	12500 kg
l.	Front axle load in kg	12500 kg
m.	Vehicle kerb weight	25000 kg
n.	Gross vehicle weight	25000 kg
p.	Engine Specification.	
(1)	Make and Model	Make: Cummins Model: Cummins QSB 6.7
(2)	Type	06 cylinder, water cooled
(3)	Country of origin	USA
(4)	Country of manufacturer	USA
(5)	Country of assembly	USA
(6)	Year of production	Not before the year of contract
(7)	Rated HP with rpm to be mentioned	130 kW @ 2500 rpm
(8)	Maximum torque with rpm to be mentioned	732 Nm @ 1500 rpm
(9)	Number of cylinder	6 Cylinder
(10)	Bore and stroke in mm	118 mm x115 mm
(11)	Type of Fuel	Diesel
(12)	Cooling system	Water Cooled
(13)	Piston displacement	8 L
(14)	Engine test bench report and 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 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).
q.	Clutch.	
(1)	For Truck	Multi plate Wet clutch
(2)	For Crane	Multi plate Wet clutch
r.	Transmission (No of Gear/Type).	
(1)	Make and Model	Make: Omsi Model: C152
(2)	Country origin, manufacture and assembly	Italy

Ser	Description	Specification Specified
	(3) Year of production	Not before the year of contract
	(4) No of Gear/Type	4 front and 1 rear remote mounted full automatic High/Low selected hydraulic type
s.	<u>Speed.</u>	
	(1) Minimum on cross country (km/h)	12 km/h
	(2) Traveling speed (km/h) on road	36 km/h
	(3) Mobility at different terrain condition	Confirm mobility on loose soil, mud, construction sites, rivers the rough terrain condition
t.	<u>Axles.</u>	
	(1) Type of axle	Rigid
	(2) Make and model	Make: Omsi Model: Ax472.75
	(3) Country of origin and manufacture	Italy
	(4) Year of production	Not before the year of contract
	(5) Front	Rigid and steering drive axle with input reducer
	(6) Rear	Rigid and steering drive axle with input reducer
	(7) Different locks	Mounted
u.	Steering system	Hydraulic power steering
v.	<u>Suspension.</u>	
	(1) Front	Front: Oscillation hydraulic cylinder system
	(2) Rear	Rear: Oscillation hydraulic cylinder system
w.	<u>Hydraulic System (Pump).</u>	
	(1) Country of origin, manufacture and assembly	Germany
	(2) Year of production	Not before the year of contract
x.	<u>Brake System.</u>	
	(1) Service brake	Hydraulic pneumatic
	(2) Parking brake	Hydraulic pneumatic
	(3) Auxiliary brake	Hydraulic pneumatic
y.	<u>Electrical System.</u>	
	(1) Volt	24 Volt
	(2) Battery (Volt and Ah)	2 x 12Volt and 120 AH
	(3) Alternator (Volt and Amp)	24 Volt and 50 Amp
	(4) Starter (Volt and Kw)	24 Volt and 5 Kw
z.	<u>Tyre Size.</u>	
	(1) No of tyre	4 nos
	(2) Size and Ply rating	20.5 x 25-24 bias ply
	(3) Tyre brand	Goodyear
	(4) Tyre country of origin and manufacture	USA /
	(5) Type of Pattern	Non-directional, Ground Grip/ Cross country
	(6) Rim Size	17 inches

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Ser	Description	Specification Specified
20.	Fuel tank capacity	300 L
21.	All lights and gauges include head light, Tail, Stop, Indicator, Work, Backup and other standard accessories to be provided	All lights and gauges include head light, Tail, Stop, Indicator, Work, Backup and other standard accessories to be provided
22.	Colour	Qty 11 Nos: Duco Paint (Nitro Cellulose Based MB Green). Qty 05 Nos: Duco Paint (Nitro Cellulose Based White with UN writing in black).
23.	Standard Tools.	
	a. Tools for crane	For Crane and Truck Portion 1. Spanner – 01 Set 2. Screw – 01 Set 3. Hammer- 01 Set 4. Handle- 01 Set 5. Gauge – 01 Set 6. Pipe – 01 Set
	b. Tools for engine	
	c. Standard accessories	1. Adjustable seat 2. Seat belt 3. Rear view mirror
24.	Petrol Oil Lubricant (POL) Information.	
	a. Detail maintenance schedule of Equipment and Engine	Petrol Oil Lubricant to be mentioned
	b. Grade of diesel used in Equipment	ASTM D-975 Grade 2-D/1-D
	c. Type of Engine Oil used in Equipment	CD SAE 10W-30
	d. Type of gear Oil used in Equipment	SAE 90 GL-4/GL-5
25.	Optional items (if any)	Not required
26.	Operational Temperature	-5°C to +55°C
27.	Maintenance	As per maintenance manual. Manual to be provided with the crane
28.	Any other	06x sets of lifting sling with capacity 5 ton for each unit
29.	Location of Stage Inspection/Pre-shipment Inspection	
30.	Details of working principle.	As per manufacturer's operational manual

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