FOR OFFICIAL USE ONLY

Directorate General Defence Purchase Ministry of Defence New Airport Road Tejgaon, Dhaka-1215 Telephone: Military 5036 Civ: 48111625

E-mail: adp1army1@dgdp.gov.bd

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06.06.0000.214.eval.23/Wrecker hy

63 August 2023

RE-EVALUATION/STANDARDIZATION OF WRECKER HEAVY (CAPACITY 10 TON AND ABOVE)

Reference:

- A. Army Headquarters, Master General of the Ordnance Branch, Electrical and Mechanical Engineers Directorate letter number 23.01.901.048.20.079.01.18.07.23 Dated 23 July 2023.
- 1. Please be informed that, Bangladesh Army is planning to procure Wrecker Heavy (Capacity 10 Ton and Above) for Bangladesh Army. In this regard, you are requested to provide offer, Brochure, Catalogue, technical/training/ operational/maintenance manuals and budgetary offers along with 100% updated original spare parts catalogue (Hard & Soft copy) etcetera for re-evaluation/standardization of models Wrecker Heavy (Capacity 10 Ton and Above). Offered models should be compatible with general technical specification attached herewith and submits directly to Army Headquarters, Master General of the Ordnance Branch, Electrical and Mechanical Engineers Directorate, Dhaka Cantonment by **20 August 2023** with intimation to this office. You are also requested to provide enlistment certificate of DGDP along with technical offer.
- 2. Forwarded for your information and necessary action please.

MD SHAHARIARE KHAN Lieutenant Colonel For Director General

Annexure:

A. Technical Specification of Wrecker Heavy (Capacity 10 Ton and Above) - 09 (Nine) Pages only.

Distribution:

External:

Action:

(All Concerned Supplier/Firm)

Information:

Army Headquarters, General Staff Branch, Weapon Equipment and Statistic Directorate

Army Headquarters, Master General of the Ordnance Branch, Ordnance Directorate

Army Headquarters, Master General of the Ordnance Branch, Electrical and Mechanical Engineers Directorate Internal:

IT Section - (For sending to enlisted Supplier/Firm with DGDP through e-mail). Also publish in web site.

Notice Board

ANX A TO EME DTE LTR NO 23 01.901.048.20. 079.01.18.07.23 DT 23 JUL 2023

GENERAL TECHNICAL SPECIFICATIONS: WRECKER HY (CAP 10 TON AND ABOVE)

Ser	Description of Technical Specifications	Required Technical Specifications	Rmk
1.	Name of the firm/local agent with full address	To be mentioned	
2.	Name of Manufacturer with full address	To be mentioned	
3.	Name of the principal with full address	To be mentioned	
4.	Nomenclature	Wrecker Hy (Cap 10 Ton and above)	
5.	Make and Model	To be mentioned	
6.	Year of manufacture	Not before the year of contract	
7.	Drive	RHD	
8.	Configuration	6x6/8x8	
9.	Country of Origin	Group-A	
10.	Country of Manufacturer	Group-A	
11.	Country of Assembly	Group-A	
12.	Kerb Weight (Vehicle + Wrecker)	To be mentioned	
13.	Weights		
13.	a. Kerb Weight	To be mentioned	
	b. Pay load	To be mentioned	
	c. Gross Vehicle Weight (GVW)	To be mentioned	
1 4	Truck Specification		
14.	a. Make and model	To be mentioned	
		Group-A	
	b. Country of origin	Group-A	
	c. Country of manufacturer	Group-A	
	d. Country of assembly	Oloup /	
15.	Dimension	To be mentioned	
	a. Overall length (mm)	To be mentioned	
	b. Overall width (mm)	To be mentioned	
	c. Overall height (mm)	To be mentioned	-
	d. Cabin height (mm)	>300 mm	
16.	Ground clearance (minimum)	2300 11111	
17.	Wheel base (mm)		
	a From 1 st to 2 nd axle	To be mentioned	
	b. From 2 nd to 3 rd axle	To be mentioned	
	c. From 3 rd to 4 th axle (if applicable)	To be mentioned	
18.	Angle of approach (degree)	25° minimum	
19.	Angle of departure (degree)	25° minimum	
20.	Maximum grade ability (%/degree)	25° minimum	
21.	Fording depth (mm)	650 mm minimum	
22.		13 meter maximum	
23.	Tread front	To be mentioned	
		To be mentioned	
24.			
23.	a. Type	To be mentioned	
	b. Make and model	To be mentioned	
	c. Country of Origin	Group-A	
	d. Country of Manufacturer	Group-A	
	e. Country of Assembly	Group-A	
	6. No of cylinder	To be mentioned	
	f. No of cylinder	To be mentioned	
	g. HP at rated rpm	To be mentioned	
	h. Måximum torque at rated rpm	To be mentioned	
	j. Bore and stroke (mm)	To be mentioned	
and the second second second	k. Piston displacement (cc)	To be mentioned	
	Type of injection	To be mentioned	

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Ser	Description of Technical Specifications	Required Technical Specifications	Rmk
	n. Turbocharger/intercooler available or not	To be mentioned	
ĺ	p. Compression ratio	To be mentioned	
l	q. Engine Test Bench Report	1. Engine Test Bench Report for all engines	
		prepared by manufacturer during production of	
		engine at manufacturing factory must be submitted	
		to the SI/PSI team for each model. 2. If Engine Test Bench Report of all engines can	
		not be submitted, in that case, for other engines of	
		the same model must be certified and confirmed	
And the second s		with the engine Test Bench Report (mentioning	
		engine number) by the manufacturer duly signed	-
9		and stamped.	
	r. Cooling type	Liquid cooled	
	s. Emission Standard	Euro-3	
26.	Fuel System	Details to be mentioned	
20.		Diesel	
	a. Fuel Type a. Fuel Consumption Liter/Hour (in static)	To be mentioned	
		To be mentioned	
	operation)	To be mentioned	
	b. Fuel Consumption Liter/100 km (on plain	To be memoried	
	road)	300 liters minimum	
	c. Fuel tank capacity	To be mentioned	
	d. Fuel Injection Pump	TO be mentioned	
27.	Vehicle Speed	T- h- marking od	
	a. High Way	To be mentioned	
	b. Cross Country	To be mentioned	-
	c. Mobility at different terrain condition	To be mentioned	-
28.	Clutch		-
	a. Type	Details to be mentioned	
	b. Clutch system	Details to be mentioned	
29.	Front Axle.		
	a. Type	To be mentioned	
	b. Axle Capacity	To be mentioned	
	c. Country of Origin	Group-A	
	d. Country of Manufacturer	Group-A	
	e. Country of Assembly	Group-A	
30.	Rear Axie.		
30.	a. Type	To be mentioned	
	b. Axle Capacity	To be mentioned	
		Group-A	
	c. Country of Origin	Group-A	
	d. Country of Manufacturer		
	e. Country of Assembly	Group-A	
	f. Number of wheel at rear axle	To be mentioned	-
31.	Transmission.	1/Markata in	
	a. Type of transmission *	Manual / Mechatronics	-
	b. Country of origin	Group-A	+
	c. Country of manufacturer	Group-A	-
	d. Country of assembly	Group-A	-
	e. Number of gears	To be mentioned	-
	f. Gear ratio	To be mentioned	-
	g. Gear shift type	To be mentioned	-
	h. Differential lock/limited slip differential (LSD)/	To be mentioned	
	equivalent technology		
32.		A P. C.	
32.	a. Make & Model	To be mentioned	
		Group-A	
	b. Country of Origin	Group-A	
	c. Country of Manufacturer	Group-A	
	d. Country of Assembly	Oloup-A	
33.	d. Country of Assembly Suspension a. Front	Details to be mentioned	

A-2 RESTRICTED



Ser	Description of Technical Specifications Required Technical Specifications R				
34.	Chassis.	The state of the s			
	a. Type	To be mentioned			
	b. Country of Origin	Group-A			
	c. Country of Manufacturer	Group-A			
	d. Country of Assembly	Group-A			
	e. Length (mm)	To be mentioned			
	f. Width (mm)	To be mentioned			
	g. Height from ground (mm)	To be mentioned			
	h. Thickness of chassis	8 mm (Minimum)			
35.	Cabin				
	а. Туре	To be mentioned			
	b. Observatory hatch (manual/auto operated)	To be provided			
	c. Cabin AC	Details to be mentioned			
	(i) Make & Model	To be mentioned			
	(ii) Country of Origin & Manufacturer	Group-A			
	d Manual hydraulically assisted tilt adjustable	To be mentioned			
	driver's seat with seat belt, firm double co-driver's				
	seat with seat belts				
	e. Rear view camera fitted	To be mentioned	-		
36.	Tyre				
	a. Tyre size	To be mentioned			
	b. Tyre Brand	Bridgestone/Dunlop/Goodyear/ Yokohama			
		/Toyo/ Uniroyal/Continental/Michelin/Folda/			
		Firestone/ Armstrong/ AMTEL/Pirelli/ Hankook	-		
	•	and Kumho			
	c. Country of Origin	USA, Japan, EU Countries, Russia, Brazil,			
		Indonesia, Malaysia, Philippines Singapore,			
		Thailand and South Korea			
	d. Tyre Pattern	Non-directional (ND) Ground Grip (GG) and			
	a. Tyro v anom	Cross country (CC).			
	e. Number of tyre (including spare tyre)	To be mentioned			
37.	Ground pressure (kg/square cm)	To be mentioned			
38.	Rim size	To be mentioned			
39.	Brake System				
00.	a. Main brake	Details to be mentioned			
	b. Parking brake	Details to be mentioned			
	c. Service brake	Details to be mentioned			
	d. Emergency brake	Details to be mentioned			
		Details to be mentioned			
	e. Auxiliary brake	Details to be mentioned			
	f. Any other brake system	Hydraulic assisted power steering			
40.	Steering	Trydraulio dodiscou parte.			
41.	Electrical System •	24 Volt			
	a. Volt	2x12 Volts			
	b. No of Battery	To be mentioned			
	c. Volt, AH	To be mentioned	1		
	d. Alternator (Volt, Amp)	To be mentioned			
	e. Starter (Volt, KW)	The state of the s	-		
	f. Panel lamps, standard instruments and	Details to be mentioned			
	gauges (e.g. panel lamps, battery, charge lamp,	2			
	fuel gauge, head and rear lights, stop & turning signal lights)		1		
	g. Amber, turning (flasher) lamps, mounted on	Details to be mentioned			
	the cab roof				
42.	Wrecker	To be mentioned			
	a. Make/Model	Group-A			
	b. Country of Origin	Group-A Group-A			
	C. Country of Manager		L. S. L.		
	d. Country of Assembly				

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B

er	Description of Technical Specifications	Required Technical Specifications	Rmk
	f. Operating system	To be mentioned	-
-	g. Number of boom	To be mentioned	
-	h. Number of section in boom	To be mentioned	-
-	j. Boom/turret rotation (degree)	Turret rotation is 360 degree or endless	
	J. Booth/turret rotation (degree)	continuous rotation	-
-	k. PTO driven hydraulic pump	To be mentioned	
-			
	l. <u>Lifting Boom</u>	Telescopic or any other advanced system	
-	(i) Type	To be mentioned	
-	(ii) Boom Extension speed (meter/min)	To be mentioned	
1	(iii) Boom extending time		
1	m. With Full Boom Extension	7 meter minimum	
	(i) Length of boom	To be mentioned	
-	(ii) Maximum load radius	To be mentioned	
	(iii) Maximum lifting height on hook	60 degree minimum	
	(iv) Maximum boom lifting angle	To be mentioned	
	(v) Maximum side working radius with	To be mentioned	
	boom fully extended	T Ltinned	
	(vi) Lifting working sector (in degree)	To be mentioned	<u> </u>
	(vii) Rear lifting capacity with boom full extended	To be mentioned	_
	(viii) Side lifting capacity with boom full extended	To be mentioned	
	n. With Boom Retracted		
	(i) Boom length	To be mentioned	
	(ii) Maximum load radius	To be mentioned	
	(iii) Maximum lifting height on hook	To be mentioned	
	(iv) Maximum boom lifting angle	For stable lifting and under EU regulation the)
	(IV) Maximum boom inting chapto	maximum hoom lift angle is set at 65	
	(v) Lifting capacity	Lifting capacity min 20 ton with boom ful	1
	(V) Litting capacity	retracted	
	Lifting performance graph	To be provided	
	p. Lifting performance graph	To be mentioned	
	q. Rear pulling capacity at first layer of cable		
43.	Main Winch	To be mentioned	
	a. Number of Winch	60 meter minimum	
	b. Cable length (meter)	20 mm minimum	
	c. Cable dia mm	To be mentioned	
	d. Pulling capacity of each winch	To be mentioned	
	e. Barrel drum dia (mm)	30 ton minimum	
	f. Pulling force at first layer of cable	To be mentioned	
	g. Function (electrical/hydraulic)	To be illettioned	
44.	Auxiliary Winch	To be mentioned	
	a. Number of Winch		
	b. Cable length (meter)	40 Meter (Minimum)	
	c. Pulling capacity of each winch	To be mentioned	
	d. Barrel drum dia (mm)	To be mentioned	_
	e. Function (electrical/hydraulic)	To be mentioned	-
45.	Self Recovery Winch		
-70.	a. Number of Winch	To be mentioned	
	b. Cable length (meter)	20 Meter (Minimum)	
	c. Pulling capacity of each winch	10 Ton (Minimum)	
	d. Barrel drum dia (mm)	To be mentioned	
	e. Function (electrical/hydraulic)	To be mentioned	_
	e. runction (electrical/hydracile)		
46.	Hoist Winch or Equivalent	To be mentioned	
	a. Number of Winch	60 Meter (Minimum)	
No.	b. Cable length (meter)	To be mentioned	
Tildad and the same of the sam	c. Pulling capacity of each winch	To be mentioned	
	d. Barrel drum dia (mm)	To be mentioned	
	e. Function (electrical/hydraulic)	TO DE MEMORICO	. *

B

	Description of Technical Specifications	Required Technical Specifications	Rmk
47.	Hook Capacity		
	a. Main	30 Tons	
	b. Auxiliary	To be mentioned	
48.	Underlift		
	a. Length fully retracted (mm)	To be mentioned	
	b. Length fully extended (mm)	To be mentioned	
	c. Tow capacity	To be mentioned	
	d. Range of towing mass	To be mentioned	
49.	Outrigger		,
	a. Number	4 Numbers minimum	
	b. Type	Hydraulic operated outriggers driven by PTO-	
		Pump; control and operation are outside	
		driver's cabin on wrecker body on rear side	
	c. Longitudinal span between front outrigger and	To be mentioned	
	rear outrigger (mm)		
	d. Transverse span of front outriggers (mm)	To be mentioned	
	e. Transverse span of rear outriggers (mm)	To be mentioned	
50.	Performance		
	a. Climbing ability	To be mentioned	
	b. Crossing ability	To be mentioned	
	c. Cruising range (on road)	To be mentioned	
51.	Superstructure Recovery Body		
<u> </u>	a. Heavy duty body shall be of steel, arc welded,	Details to be mentioned	
	6mm thick plates, with floor made of chequered		
	plate of 3-5 mm thick with suitable		
	reinforcements.	٧٠	
	b. Mainframe structure made of 100 mm	Details to be mentioned	
	channels		
	c. Channel size	Details to be mentioned	
	d. Controls to be recessed in the body side	Details to be mentioned	
	panels at the rear and to provide independent	Betails to be membered	
	power-up/down control of both winches from		=
	either side of the truck.		
	e. Tail gate made of 6mm plate, flanged top and	Details to be mentioned	
	bottom with two pivotally attached towing rings	Bolding to be mornioned	
1	built in		
F	f. All mounting brackets to be fitted such that drilling	Details to be mentioned	
1	will be done only through the side of the truck frame		
	in accordance with the truck manufacturer's		
	recommendations. One foldable access step at		
	each side of rear.		
+	g. 2 Number suitable size tool compartments to be	Details to be mentioned	
	fitted on each side of body		
ŀ	h. Heavy-duty hydraulic outboard legs/outriggers	Details to be mentioned	
	attached to each side of mainframe structure.	Dotano to Do Monte	
-	j. Fitted with heavy duty towing hooks at both	Details to be mentioned	
	rear and front.		
2	Tools and accessories must be provided as per list	To be provided (Group-A)	***************************************
3.	given in appendix 1 in Annexure A	, o and provided (around , y	
2	Standard maintenance tools & any others	To be mentioned	
3.	accessories (If applicable). (The list must be	10 20	
-			
_	publications of the offered equipment/ vehicle)	To be mentioned	
4.	Towing attachment: (To carry vehicles and	10 be memoried	
	equipment casualty after recovery) Seating Arrangement for 4xCrew Operator	To be mentioned	
5.		TO DE HICHUOTICA	

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Ser	Description of Technical Specifications	Required Technical Specifications	Rmk			
7.	Following Information's/Documents to be sub-	nitted along with the Offer				
	a. Details of working principle	To be mentioned				
	b. Provision of supply of major spare parts for	Certificate to be provided				
	minimum 15 years		-			
	c. Provision of supply fast and slow moving	Certificate to be provided				
	spare parts for minimum 15 years					
	d. Model validity in years (minimum 10 years)	Certificate to be provided	-			
	e. Any other relevant technical information may	To be mentioned				
	also be enclosed		+			
8.	Misc Items		 			
	a. 1x First aid box	To be provided	-			
	b. Operators cab with the wrecker unit to be	To be provided				
	provided as per manufacturer standard		-			
	c. 02x Beacon light on cabin roof	To be provided	-			
	d. Head light	To be provided	-			
	e. Fog light	To be provided				
	f. Towing attachment (Towing attachment	To be provided .				
	including NATO towing pintle hook, electric 12 pin					
	socket & air coupling provided)					
	g. Blackout lights	To be provided				
	(i) 02 x Blackout light at front					
	(ii) 02 x Blackout light at rear					
	(iii) 02 x Blackout convoy light					
	(iv) 02 x Blackout driving light		+			
	h. Lighting protection guards for all outside lights	To be provided				
	j. Siren (standard)	To be provided				
	k. Search light	To be provided				
	I. Wiper Blade	To be provided				
59.	Operational items (if any)	To be mentioned				
30.	Operational temperature	-5°C to +55°C				
61.	Different levels of maintenance	To be mentioned				
62.	Petrol Oil Lubricant (POL) Information. The following information must be submitted with the					
	offer:					
	a. Grade of fuel used in Vehicle	To be mentioned				
	b. Type of Engine Oil used in Vehicle	To be mentioned				
	c. Type of gear Oil (Equivalent grade) used in vehicle	To be mentioned				
	d. Grade of fuel to be used in Bangladesh	The vehicle must be suitable for used with fue available in Bangladesh				
63.	Colour	As per indentor requirements				
64.	Training Requirements.					
04.	a. User Training	To be provided (As per requirement of User/				
	a. Oser Hairing	Sponsor Directorate)				
	b. Operation, Repair and Maintenance Training	To be provided (As per requirement of				
	b. Operation, Repair and Maintenance Training	Electrical and Mechanical Engineers Directorate)				
	c. Inventory Control & Management Aspect	To be provided (As per requirement of				
ava sissanovnimin	Training	Ordnance Directorate)				
65.	Publications	T be excluded as a second second of CNAC				
	a. Driver's/Owner's manual in English for	To be provided as per requirement of EME				
	Vehicle (Complete Book type)	Dte	-			
	b. Updated workshop/repair manual (for vehicle)	To be provided as per requirement of EME				
	in English (Complete Book type.	Dte				
	c. Spare Parts Catalogue in English Book type.	To be provided as per requirement of EME Dte				
	d. Spare Parts Price Catalogue in English	To be provided as per requirement of EME				
		Dte				
	Book type. e. Other Operator's manuals Catalogue (Book	To be provided as per requirement of EMB				
	Type) for additional equipment like Radio,	Dte	1 100			

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Car	Description of Technical Specifications	Required Technical Specifications	Rmk
Ser	Fast and slow moving spare parts	List to be provided as per requirement of EME	
66.	rast and slow moving spare parts	Dte	
67	Analyzer, measuring & testing/fault finding and	To be provided as per requirement of EME	
67.	diagnostic set	Dte	
~~	Special Service Tools (SST)	List to be provided as per requirement of EME	
68.	Special Service Tools (301)	Dte	
	Special Service Materials (SSM)	List to be provided as per requirement of EME	
69.	Special Service Materials (SOM)	Dte	
70	Westernal	Arrangement for rifle clips for drivers and	
70.	Weapon stowage	crews to be made	
		Details to be mentioned	
71.	Safety device	List to be provided	
72.	Tool list for different IvI of maint	Details to be mentioned	
73.	Any items not included in this specification but	Details to 25	
	which are deemed necessary for efficient or		
	improved operation of the equipment		
74.	Terms and Conditions.	1 Year	
	a. Time of Free Service	1 Year or 20,000 KM	
	b. Warranty/Guaranty	Must be confirmed as per requirement	
	c. Technical offer should be on the original pad	Mast be committed as per requirement	
	of principal/ manufacturer with sign & seal	To be submitted during evaluation stage	
	d. Offered technical specifications must	To be submitted during evaluation stage	
	conform to the specifications mentioned in the		
	submitted brochure/catalogue otherwise offer		
	will not be accepted	To be submitted during evaluation stage	
	e. Authorization certificate (Original) in favour	To be submitted during evaluation stage	
	of principal by the original vehicle manufacturer	1,	ĺ
	to be submitted along with offer	To be submitted during evaluation stage	
	f. Authorization certificate (Original) in favour of	To be submitted during evaluation stage	
	local agent by the principal to be submitted		
	along with offer	To be submitted during evaluation stage	
	g. The Manufacturer, Principal and local agent	To be submitted during evaluation stage	and the second
	must give a guarantee certificate for the		and the same of th
	following	The stage of the s	
	(1) Same/similar model of vehicle/ equipment	To be submitted during evaluation stage	
Carried Control	will be available for next 10 years		
- Deliver of the Control of the Cont	(Confirmation certificate to be provided by		
	manufacturer)	To be submitted during evaluation stage	
	(2) Spares will be available for at least 15	To be submitted during evaluation stage	
	years (Confirmation certificate to be provided		
	by Manufacturer	To be submitted during evaluation stage	
	(3) After sales service should be available	To be submitted during evaluation stage	
	with local agent and will be provided as and		
	when required for indefinite period (at free of		
	charge up to guarantee period) and then		
	onwards with payment (Confirmation certificate		
	to be provided by local agent)	the state of a street	
76		Manufactured not before the year of contract	

T

TOOLS AND ACCESSORIES MUST BE PROVIDED WITH WRECKER HY (CAP 10 TON AND ABOVE) FOR EACH VEHICLE (COUNTRY OF ORIGIN: GROUP-A)

er	Description of Technical Specifications	A/U	Qty	Rmk
1.	Levers & Crow Bars: (each type suitable for heavy wrecker)	No	02	
2.	Shackle 'D' type 3/4" dia	No	06	
3.	Bow shakle (each bow shakle of 20 tons)	No	02	
4.	Hold Fast Anchor (with required anchor pin)	No	04	
5.	Triangular Anchor (with required anchor pin)	No	04	
6.	Hand saw electric	No	01	
7.	Sheaves stock block and snatch block (Load capacity 20/30 ton)	No	03x Single, 03x double	
8.	Thimbles	No	10	
9.	Bulldog grip	No	15	
10.	Double throat clamp	, No	06	
11.	Fire extinguisher ABC&E type 03 kg (Minimum), Origin to be mentioned	No	02	
12.	Spare wheel with lifting facilities (Mechanical/Hydraulic)	No	01	
13.	Tool Box with Double Jerry can Carrier (Fitted on vehicle)	No	02	
14.	Towing hook at front (capacity to be mentioned)	No	02	
15.	Pintle hook at rear (Rotary type)	No	01	
16.	Tyre inflator set complete with high pressure hose, adaptor, pressure gauge & nozzle (from main air compressor to all wheels)	Set	01	
17.	Hydraulic jack 30 ton with handle	No	01	
18.	Inspection lamp complete with min 10 meter cable + plug & socket	No	01	
19.	Wheel wrench with handle	No	01	
20.	Chain rope 30ft complete with hook½" (Capacity 20 ton)	No	01	
21.	Chain rope 30ft complete with hook 3/8" (Capacity 20 ton)	No	01	
22.	Rope sling (lever hoists) capacity 20 ton	No	01	
23.	Chain sling load capacity 10 ton	No	01	
24.	Chain sling load capacity 5 ton	No	01	
25.	Hoisting belt (3000 kg each)	No	02	
26.	Steel cable loops (4 Nos. steel cable sling of 20 mm Ø x 3,500 mm with hook of capacity 5000 kg each)	No	02	
27.	Nylon sling capacity 10 ton	No	02	
28.	Nylon sling capacity 5 ton	No	01	
29.	Wire rope 100 feet complete with hooks 3/8"	No	01	
30.	50 5 de la contenta with hooks 3/8"	No	01	
31.	- Line 20 foot	No	01	
32.	the first convert	No	02	
33.		No	04	
	the state of the s	Pairs	06	
34	- 175 light and 20ft long complete with books	No	01	
35		No	06	
36		No	08	
37	title (rechargophia)	No	06	

A-8 RESTRICTED



Ser	Description of Technical Specifications	A/U	Qty	Rmk
	Traffic Cones	No	08	
39.		Pair	12	
40.	Hand gloves leather	No	02	
41.	Warning triangle		01	
42.	Traffic lighting bar with cable	No		
43.	Sledge hammer 10/14 lbs	No	04	
44.	Pipe wrench forged steel 600mm length, 80mm capacity	No	01	
45.	Adjustable spanner 315mm	No	01	
	Ball pen hammer 900gm metal type	No	01	
46.	The state of the s	No	01	
47.	Pliers -180mm combination pliers	No	01	
48.	Pliers -280mm self grip pliers	Set	01	
49.	Towing attachment to carry vehicles and equipment casualty after recovery (Towing capacity is 24 tons with 5 tons vertical load at	Set .	01	
50.	towing hook) 20 Liter metallic jerry can	No	02	

B