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09 Magh 1430

23 January 2024

06.06.0000.214.eval.23/wksp Lorry (Med)

RE-EVALUATION OF WORKSHOP LORRY (MEDIUM)

Reference:

A. Army Headquarters, Engineer in Chief's Branch, Engineer Directorate letter number 23.01.901.055.02. 192.03.09.01.24 Dated 09 January 2024 (Not to all).

1. Please be informed that Bangladesh Army is planning to procure Workshop Lorry (Medium). Presently Army Headquarters, Engineer in Chief's Branch, Engineer Directorate received 08x offers from various suppliers as 04x Group A countries & 04x Group B countries. Presently Group C countries also needs to be included with the General technical specification of Workshop Lorry (Medium). 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 (each in duplicate) for standardization of model of Workshop Lorry (Medium). Offered models should be compatible with general technical specification attached herewith (each in duplicate) and to be submitted directly to Army Headquarters, Engineer in Chief's Branch, Engineer Directorate, Dhaka Cantonment by **05 February 2024** with intimation to this office. You are also requested to provide enlistment certificate of DGDP along with technical offer. Lack of any information will disqualify the offer.

2. Forwarded for your information and necessary action please.



SHEULY AKTER
Lieutenant Colonel
For Director General

Annexure:

A. Technical Specification of Workshop Lorry (Medium) - 12 (Twelve) Pages only.

Distribution:

External:

Action:

(All Concerned Supplier/Firm)

Information:

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

Army Headquarters, Engineer in Chief's Branch, Engineer Directorate

Internal:

IT Section: Publish in web site.

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TECHNICAL SPECIFICATION OF WORKSHOP LORRY (MEDIUM)
(Approved in General Staff Policy Committee Meeting 8/2018)

Ser	Description	Required Technical Specification	Remarks
	Part-1: General Specification		
1.	Name of the Equipment	Workshop Lorry (Medium)	
2.	Name and Complete Address of the Local Agent	To be mentioned	
3.	Name and Complete Address of the Principal	To be mentioned	
4.	Name and Complete Address of the Manufacturer	To be mentioned	
5.	Make & Model	To be mentioned	
6.	Country of Origin	Group A, B & C Countries	
7.	Country of Assembly		
8.	Country of Manufacturer		
9.	Year of production	Not before the year of contract	
	Part-2: Technical Specification		
10.	Truck Specification		
	a. Make & Model	To be mentioned	
	b. Country of Origin	Group A, B & C Countries	
	c. Country of Manufacturer		
	d. Country of Assembly		
11.	Type of Drive	RHD	
12.	Configuration	Minimum 4x4	
13.	Vehicle Dimensions (mm)		
	a. Length	To be mentioned	
	b. Width	To be mentioned	
	c. Height	To be mentioned	
14.	Load Body Dimension (mm)		
	a. Length	To be mentioned	
	b. Width	To be mentioned	
	c. Height	To be mentioned	
15.	Weights		
	a. Pay Load	To be mentioned	
	b. Kerb Weight (Kg) Chassis	To be mentioned	
	c. Kerb Weight complete Workshop Lorry	To be mentioned	
	d. Gross Vehicle Weight (Kg)	To be mentioned	
16.	Wheel Base	To be mentioned	
17.	Minimum Ground Clearance (Front & Rear)	Minimum 300 mm	
18.	Angle of Approach (degree)	Minimum 25°	
19.	Angle of Departure (degree)	Minimum 25°	
20.	Gradeability	Minimum 30°	
21.	Minimum Turning Radius	Maximum 9.5 m	
22.	Maximum Fording ability	Minimum 600 mm	
23.	Engine		
	a. Make & Model	To be mentioned	
	b. Type	Details to be mentioned	
	c. Country of origin	Group A, B & C Countries	
	d. Country of Manufacturer		
	e. Country of Assembly		
	f. Year of Production	Not before the year of contract	
	g. Horse Power with rpm	Minimum 201 HP with rpm to be mentioned	
	h. Number of cylinder	Minimum 6 Cylinder	
	j. Maximum Torque with rpm	To be mentioned	
	k. Bore and Stroke	To be mentioned	
	l. Fuel injection pump	To be mentioned	
	m. Piston displacement	To be mentioned	
	n. Compression Ratio	To be mentioned	
	p. Cooling System	Water cool	
	q. Type of Fuel	Diesel	
	r. Fuel consumption per 100 km	To be mentioned	
	s. Turbo charger available or not	Details to be mentioned	
	t. Engine test bench certificate	During insp Engine test bench report (for the contracted 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 engine (mentioning engine number) of the same model must be cert confirming the engine test bench report by the manufacturer (duly signed and stamped)	

Ser	Description	Required Technical Specification	Remarks
24.	Fuel Tank Capacity (The vehicle to be able to run minimum 500 km)	Minimum 200 Liters	
25.	Power/Weight ratio	Details to be mentioned	
26.	Ground pressure	To be mentioned	
27.	Transmission System		
	a. Make & Model	To be mentioned	
	b. Type of Transmission	Manual	
	c. Country of origin	Group A, B & C Countries	
	d. Country of Assembly		
	e. Country of Manufacturer		
	f. Number of gears	6 Speed forward + 1 reverse (Minimum)	
	g. Gear ratio	To be mentioned	
28.	Transfer Case		
	a. Type	To be mentioned	
	b. Make & Model	To be mentioned	
	c. Country of Origin	Group A, B & C Countries	
	d. Country of Manufacturer		
	e. Country of Assembly		
29.	Maximum Axle Weight/Load		
	a. Front axle load (kg)	To be mentioned	
	b. Rear axle load (kg)	To be mentioned	
30.	Vehicle Speed		
	a. High Way	To be mentioned	
	b. Cross Country	To be mentioned	
31.	Electrical System		
	a. Volt	24 Volt	
	b. Battery (Volt & AH)	2x12Volt & AH to be mentioned	
	c. Alternator (Volt & Amp)	Volt & Amp to be mentioned	
	d. Starter (Volt & KW)	Volt & KW to be mentioned	
32.	Brake system		
	a. Service brake	Air & Hydraulic	
	b. Parking brake	Details to be mentioned	
	c. Trailer Brake	Two line trailer brake coupling at rear with 12 pin electrical connector NATO standard for Trailer	
	d. Any other brake	Details to be mentioned	
33.	Steering System	Power Steering	
34.	Suspension		
	a. Front	To be mentioned	
	b. Rear	To be mentioned	
35.	Tyre		
	a. Number of Tyre including spare tyre	To be mentioned	
	b. Size of Tyre	To be mentioned	
	c. Tyre Brand	Bridgestone/Dunlop/Goodyear/Yokohama/Toyo/Uniroyal/Continental/Michelin/Florida/Firestone/Armstrong/ AMTEL/ Pirelli	
	d. Country of Origin	USA, Japan, EU Countries, Russia, Brazil, Indonesia, Malaysia, Philippines, Singapore, Thailand and South Korea	
	e. Country of Manufacturer		
	f. Tyre of pattern	Non-directional, Ground Grip & Cross country (ND, GG & CC)	
	g. Rim size	To be mentioned	
	h. Country Origin of Rim	USA, Japan, EU Countries, Russia, Brazil, Indonesia, Malaysia, Philippines, Singapore, Thailand and South Korea	
36.	Heavy duty hydraulic outrigger with elephant feet at four corners of workshop body	Details to be mentioned	
37.	Standard Accessories		
	a. Towing attachment (including trailer electrical brake and coupling).	Details to be mentioned	
	b. Blackout lights	(1) 2x Blackout light at front to be provided (2) 2x Blackout light at rear to be provided (3) 1x Blackout convoy to be provided (4) 1 x Blackout driving to be provided	
	c. Tool box and Jerrican	1 x Tools box and 1 x double jerry can carrier to be provided.	
	d. Spare Wheel	Spare wheel with jack up facilities & hanger to be provided	
	e. Towing hook	Towing hook with capacity of 8 Tons at front centre and two shackles of 4.5 tons each on bumper to be provided.	
	f. Pintle hook at rear	Rear rotary pintle hook at 7.5 tons capacity to be provided(NATO Type)	
	g. Any other standard accessories	To be mentioned	

Ser	Description	Required Technical Specification	Remarks
38.	Accessories		
	a. Tyre inflator	Tyre inflator complete with 12 meters high pressure hose, adopter and nozzle (from the main air compressor to all wheels)	
	b. Wind screen washer unit and sun visors	To be provided	
	c. 02x rear view mirrors with down view mirrors (out of side)	To be provided	
	d. Drivers and Co-drivers Seat belt	Seat belt for driver and co-driver to be provided	
	e. Attachment points/hooks	Attachment points/hooks for load restraint traps and chain for securing ammunition boxes and conventional loads	
	f. Fire extinguishers	Fire extinguisher A B C type (suitable for E type fire) 3 kg complete with chemical & fitting bracket to be provided	
	g. Hydraulic jack with handle	One hydraulic jack of 15 ton to be provided.	
	h. Inspection lamp complete with minimum 10 meters cable	Inspection lamp complete 10 meter cable, plug and socket in the vehicle to be provided.	
	j. Wheel wrench with handle	To be provided	
	k. Standard maintenance tools with each vehicle	Provided with each vehicle, which is enough for standard maintenance of the vehicle.	
	l. Rifle clip for placing two rifles inside the cabin	Two rifle clips to be provided inside the cabin	
	m. Vehicle First Aid Box	To be provided	
	n. Any other	To be mentioned	
39.	Cabin		
	a. Type of Cabin	To be mentioned	
	b. Number of Passenger		
	c. Number of Bed		
	d. Air Condition (AC)	Reinforced structure, hard top, insulated with thermal controller (AC)	
	(1) Make & Model	To be mentioned	
	(2) Country of Origin	Group A, B & C Countries	
	(c) Capacity	To be mentioned	
40.	Colour	As per inventors requirement	
41.	Workshop Portion		
	a. Dimension of Store Bin	Provision of installation of 1500 mm (H) x575 mm (B) x 610 mm (W) steel welded construction for housing one 300 mm x 300 mm x 68 mm, four 1050 mm x 575 mm drawer and 500 mm x 300 mm x1150 mm store space rack which are easily removable.	
	b. Layout of Workshop	A separate layout paper with necessary diagram, location and drawing of various equipments and tools of workshop to be provided with the offer.	
	c. Doors and Flaps	Double door at the rear fitted with glass window	
42.	Body and Floor		
	a. To be provided		
	a. Hard top steel body with anti skid floor	To be provided	
	b. Two side flops fitted with boosted power facilities for easy opening and closing	To be provided	
	c. Minimum four windows fitted with that Aluminum sliding glass	To be provided	
	d. A collapsible light weight stairs with checkered aluminum.	To be provided	
	e. 02x Fan on 2 sides of the working cargo to be fitted	To be provided	
43.	Equipment for Each Vehicle. Fitted with modern light weight but durable handy equipment to be able to perform repair of general purpose ancillary jobs. Equipment to be installed are:		
	a. Generator 6 KVA, 230v, 50 Hz with self starter & battery	To be provided	
	b. Lathe machine 4' with both mm and inch type. Height of center 8" length of lathe 60". Country of Manufacture- To be mentioned	To be provided	
	c. Tools kit 'B' vehicle 154 lines complete as per Appendix-1.	To be provided	
	d. Tools kit 'C' and Special vehicle 64 line complete as per Appendix-2.	To be provided	
	d. Artificer Engineer and Machinist tools box 38 line items complete as per Appendix-3.	To be provided	
	e. Electrician tools box 22 line items complete.as per Appendix-4.	To be provided	
	f. Welding tools box 20 line items complete as per Appendix-5.	To be provided	

Ser	Description	Required Technical Specification	Remarks
44.	Electrical Wiring		
	a. The unit should have provision of getting supplied form single/ three phase local electrical sources	To be provided	
	b. Sufficient receptacles to get all electrical equipments connected	To be provided	
	c. Safety measures with earthing system/main switch must be complied with	To be provided	
45.	Air Circulation and Lighting system	Adequate air circulation and lighting system should be available	
46.	Weapon Stowage	Should be equipped with stowage of at least three personal weapons	
47.	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 the equipment should be compatible with the diesel available in Bangladesh	
	c. Type of Engine oil used in equipment	Information to be submitted in compatible with Bangladesh Army	
	d. Type of gear oil used in equipment		
48.	Operational Temperature	-5°C to +55°C	
49.	Maintenance	Details to be mentioned, Manual to be provided	
50.	ISO Certificate or Similar Rating	ISO Certificate to be provided by the manufacturer	
51.	Part-3. Training Requirement		
	a. User training (For Engineers)	To be provided as per requirement of Engineer Directorate	
	b. Operation, repair and maintenance training (For Electrical and Mechanical Engineers)	To be provided as per requirement of Electrical and Mechanical Engineers Directorate	
	c. Equipment Management Training (For Ordnance)	To be provided as per requirement of Ordnance Directorate	
52.	Part-4. Repair and maintenance requirement list of spares:		
	Book & Publication (For each Motor Grader)		
	a. Owners/Operators manual in English (Book Type) and CD/DVD	To be provided as per requirement of Electrical and Mechanical Engineers Directorate	
	b. Workshop/Repair manual in English (Book Type) and CD/DVD		
	c. 100% updated Master Spare Parts catalogue in English (Book Type) and CD/DVD		
	d. Complete and updated Master Spare Parts Price list catalogue in English (Book Type) and CD/DVD		
53.	Part-5.		
	a. List of standard spares	Separate list of fast and slow moving spare parts to be provided as per requirement of Electrical and Mechanical Engineers Directorate	
54.	Part-6. Tools list for different level of maintenance		
	a. Analyzer, measuring & testing/ fault finding and diagnostic set	To be provided as per requirement of Electrical and Mechanical Engineers Directorate	
	b. Special Service Tools (SST)		
	c. Special Service Materials (SSM)		
55.	Certificate on spare parts availability in Bangladesh	Certificate to be submitted from manufacturer	
56.	List and certificate on usage of the equipment by other organizations or agencies in Bangladesh	List and certificate to be submitted from manufacturer	
57.	List and certificate of local after-sales-service workshop in Bangladesh who can provide spares of the equipment readily	To be confirmed by the manufacturer as the technical requirement	
58.	Detailed address of after-sales-service workshop in Bangladesh	Details address to be mentioned	
59.	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)	
	Note: Following information's/documents to be supplied along with the offer:		
	a. Details of working principle		
	b. Functional/Users 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. Any other relevant technical information may also be enclosed		

APPX -1 TO
 ANX A TO
 ENGR DTE LTR NO.
 23.01.901.055.02.192.02.09.01.24
 DT: 09 JANUARY 2024

LIST OF TOOL KIT 'B' VEHICLE WORKSHOP PORTION - (154 LINE)

Ser	Nomenclature	A/U	Qty
1.	Tool chest with drawer compartment	No	01
2.	Hammer engineer Ball Pin with handle 24 OZs	No	01
3.	Hammer engineer Ball Pin with handle 8 OZs	No	01
4.	Hammer Plastic tip	No	01
5.	File all purpose (Magneto) 3½"	No	01
6.	File bastd 12"	No	01
7.	File half round 8"	No	01
8.	File half round 2 nd cut 6"	No	01
9.	File half round smooth 4"	No	01
10.	File square 2 nd cut 6"	No	01
11.	File three square 2 nd cut 4"	No	01
12.	File round bastd 8"	No	01
13.	File round smooth 6"	No	01
14.	File handle for 4" & 6" files	No	01
15.	File handle for 8" files	No	01
16.	File handle for 12" files	No	01
17.	Screw driver 4" blade length	No	01
18.	Screw driver Phillips No '0'	No	01
19.	Screw driver Phillips No '1'	No	01
20.	Screw driver Phillips No '2'	No	01
21.	Screw driver Phillips No '3'	No	01
22.	Screw driver Phillips No '4'	No	01
23.	Screw driver electric 4" blade length	No	01
24.	Screw driver electric 3/16"	No	01
25.	Screw driver engineer 7-5/8" B/length	No	01
26.	Heavy duty engineer screw driver 11 13/16" B/length	No	01
27.	Screw driver 15/16" blade length Chubby (Carburetor)	No	01
28.	Round nose Pillar 6" length	No	01
29.	Heavy duty engineer comb pliers w/side cutting 7"	No	01
30.	Needle nose pliers w/side cutting PVC grip handle 7-5/8"	No	01
31.	Heavy duty diagonal cutting 6" length	No	01
32.	Circlip pliers nose 18 to 75mm PVC	No	01
33.	Water pump pliers slip joint 10"	No	01
34.	Circlip pliers nose 40 to 100mm	No	01
35.	Water grip pliers adjustable 7"	No	01
36.	Metal box for ¼" SD Tools	No	01
37.	Ratchet spa ¼" SD w/plastic handle	No	01
38.	Extension bar 2" SD	No	01
39.	Ratchet revisable ¼"	No	01
40.	Universal joint ¼"	No	01
41.	Flexible extension ¼"	No	01
42.	'T' handle ¼"	No	01
43.	Extension bar 4"	No	01
44.	Hex socket ¼" x 3/16"	No	01
45.	Hex socket ¼" x 7/32"	No	01
46.	Hex socket ¼" x 9/32"	No	01
47.	Hex socket ¼" x 5/16"	No	01
48.	Hex socket ¼" x 11/32"	No	01
49.	Hex socket ¼" x 3/8"	No	01
50.	Hex socket ¼" x 6mm	No	01
51.	Hex socket ¼" x 5mm	No	01
52.	Hex socket ¼" x 7mm	No	01

RESTRICTED

Ser	Nomenclature	A/U	Qty
53.	Hex socket 1/4" x 8mm	No	01
54.	Hex socket 1/4" x 9mm	No	01
55.	Hex socket 1/4" x 7/16"	No	01
56.	Hex socket 1/4" x 1/4"	No	01
57.	Spanner OTDE MM size 6x7	No	01
58.	Spanner OTDE MM size 8x9	No	01
59.	Spanner OTDE MM size 10x11	No	01
60.	Spanner OTDE MM size 12x13	No	01
61.	Spanner OTDE MM size 14x15	No	01
62.	Spanner OTDE MM size 16x17	No	01
63.	Spanner OTDE MM size 18x19	No	01
64.	Spanner OTDE MM size 20x22	No	01
65.	Spanner OTDE MM size 22x23	No	01
66.	Spanner OTDE MM size 24x26	No	01
67.	Spanner OTDE MM size 27x30	No	01
68.	Spanner OZDE inch 1/4" x 5/16"	No	01
69.	Spanner OZDE inch 3/8" x 7/16"	No	01
70.	Spanner OZDE inch 1/2" x 9/16"	No	01
71.	Spanner OZDE inch 5/8" x 11/16"	No	01
72.	Spanner OZDE inch 3/4" x 7/8"	No	01
73.	Spanner OZDE inch 7/8" x 15/16"	No	01
74.	Spanner OZDE inch 1" x 1/4"	No	01
75.	Spanner OZDE inch 11/16" x 1/4"	No	01
76.	Spanner ring type double ended 6x7mm	No	01
77.	Spanner ring type double ended 8x9mm	No	01
78.	Spanner ring type double ended 10x11mm	No	01
79.	Spanner ring type double ended 12x13mm	No	01
80.	Spanner ring type double ended 14x15mm	No	01
81.	Spanner ring type double ended 17x19mm	No	01
82.	Spanner ring type double ended 20x22mm	No	01
83.	Spanner ring type double ended 3/4 x 7/16 Inch	No	01
84.	Spanner ring type double ended 1/2 x 9/16 Inch	No	01
85.	Spanner ring type double ended 5/8x 11/16 Inch	No	01
86.	Spanner ring type double ended 3/4 x 7/8 Inch	No	01
87.	Spanner ring type double ended 1" x 15/16 Inch	No	01
88.	Spanner ring type double ended 1/4 x 11/16 Inch	No	01
89.	Spanner socket 1/2" x 10mm	No	01
90.	Spanner socket 1/2" x 11mm	No	01
91.	Spanner socket 1/2" x 12mm	No	01
92.	Spanner socket 1/2" x 13mm	No	01
93.	Spanner socket 1/2" x 14mm	No	01
94.	Spanner socket 1/2" x 15mm	No	01
95.	Spanner socket 1/2" x 16mm	No	01
96.	Spanner socket 1/2" x 17mm	No	01
97.	Spanner socket 1/2" x 18mm	No	01
98.	Spanner socket 1/2" x 19mm	No	01
99.	Spanner socket 1/2" x 20mm	No	01
100.	Spanner socket 1/2" x 21mm	No	01
101.	Spanner socket 1/2" x 22mm	No	01
102.	Spanner socket 1/2" x 23mm	No	01
103.	Spanner socket 1/2" x 24mm	No	01
140.	Spanner socket 1/2" x 25mm	No	01
105.	Spanner socket 1/2" x 26mm	No	01
106.	Spanner socket 1/2x 3/8" Inch	No	01
107.	Spanner socket 1/2x7/16"	No	01
108.	Spanner socket 1/2 x 1/2"	No	01
109.	Spanner socket 1/2 x 9/16"	No	01
110.	Spanner socket 1/2 x 19/32"	No	01
111.	Spanner socket 1/2 x 5/8"	No	01
112.	Spanner socket 1/2 x 11/16"	No	01

RESTRICTED

Ser	Nomenclature	A/U	Qty
113.	Spanner socket ½ x ¾"	No	01
114.	Spanner socket ½ x 13/16"	No	01
115.	Spanner socket ½ x 7/8"	No	01
116.	Spanner socket ½ x 15/16"	No	01
117.	Spanner socket ½ x 1"	No	01
118.	Spark plug socket 14 mm 13/16"	No	01
119.	Spark plug socket 10mm 5/8"	No	01
120.	Spark plug socket ½ 18mm Opening 26mm	No	01
121.	Spark plug gauge	No	01
122.	Spark plug gauge	No	01
123.	Combination filler & Ignition gauge (inch size) 26 blades	Set	01
124.	Combination filler & Ignition gauge (mm size) 13 blades	Set	01
125.	Breaker bar with plastic handle 15"	No	01
126.	Ratchet reversible with plastic handle 10"	No	01
127.	Braches bar with plastic handle 16"	No	01
128.	"T" handle 11-5/8" length	No	01
129.	Adopter ½" SD to ¾" SD (3/4" plug ½" Socket)	No	01
130.	Extension bar 6" with drilled head	No	01
131.	Extension bar 12" with drilled head	No	01
132.	Torque wrench 50-250 lbs capacity	No	01
133.	Piston ring expender 3 ½ " to 5"	No	01
134.	Piston ring compressor 2 3/8" to 5"	No	01
135.	Puller triptle grip jaw opening 3-1/8" max	No	01
136.	Ignition spanner set 3/26", 7/32", 9/32", 5/16", 11/32", 3/8" & 7/16"	Set	01
137.	Ignition spanner set (4 mm to 7 mm)	Set	01
138.	Allen key set 1/16, 3/64, 3/32, 3/16, 7/32, ¼, 5/16 & 3/8 (set of 10) (Inch)aa	Set	01
139.	Allen key set 2,2,3,4,5,6,7,8,9 & 10 mm	Set	01
140.	Chisel cold flat 6"	No	01
141.	Chisel cold cross cut 7/8"	No	01
142.	Punch centre 4 tool steel 4 ¾ "	No	01
143.	Punch starter tool steel 4 ¼ "	No	01
144.	Punch starter tool steel 7"	No	01
145.	Drift brass paralalled 6"	No	01
146.	Rule steel graduate 12"	No	01
147.	Carbon scraper 9 ¾ "	No	01
148.	Scriper double ended 9"	No	01
149.	Automatic light tester	No	01
150.	Oil can ½ pt	No	01
151.	Cleaning brush 6" long	No	01
152.	Hack saw frame 10" to 12"	No	01
153.	Pad lock	No	01
154.	Universal Joint	No	01

LIST OF TOOL KIT 'C' & SPECIAL VEHICLE WORKSHOP PORTION - (64 LINE)

Ser No	Nomenclature	A/U	Qty	Remark
1.	Tool Chest with three Drawers, Compartment four heavy rubber tyred with fitting nut & bolts Carrying handle and locking system	No	01	
2.	Ratchet handle 1" SD reversible overall length 28"	No	01	
3.	'T' Handle 1" SD	No	01	
4.	Universal Joint 1" SD	No	01	
5.	Bar Extension 8" x 3/4" SD	No	01	
6.	Bar Extension 18" x 1" SD	No	01	
7.	Convertor /Adopter 3/4" Sqr Plug x 1" Stocked	No	01	
8.	Convertor /Adopter 3/4" Sqr Socket x 1" Plug	No	01	
9.	Spanner Socket 3/4" SD x 1-1/16" (AF)	No	01	
10.	Spanner 3/4" SD x 1 1/8 (AF)	No	01	
11.	Spanner Socket 5/4" SD x 1 1/4" (AF)	No	01	
12.	Spanner Socket 3/4" SD x 1- 5/16" (AF)	No	01	
13.	Spanner Socket 3/4" SD x 1- 7/16" (AF)	No	01	
14.	Spanner Socket 3/4" SD x 1 1/2" (AF)	No	01	
15.	Spanner Socket 3/4" SD x 1- 5/8" (AF)	No	01	
16.	Spanner Socket 3/4" SD x 1- 11/16" (AF)	No	01	
17.	Spanner Socket 3/4" SD x 1- 3/4" (AF)	No	01	
18.	Spanner Socket 3/4" SD x 1- 13/16" (AF)	No	01	
19.	Spanner Socket 3/4" SD x 1- 7/8" (AF)	No	01	
20.	Spanner Socket 3/4" SD x 2" (AF)	No	01	
21.	Socket 3/4" SD x 27 MM (AF)	No	01	
22.	Socket 3/4" SD x 29 mm (AF)	No	01	
23.	Socket 3/4" SD x 30 mm (AF)	No	01	
24.	Socket 3/4" SD x 32 mm (AF)	No	01	
25.	Socket 3/4" SD x 38 mm (AF)	No	01	
26.	Socket 3/4" SD x 41 mm (AF)	No	01	
27.	Socket 3/4" SD x 42 mm (AF)	No	01	
28.	Socket 3/4" SD x 46 mm (AF)	No	01	
29.	Socket 3/4" SD x 50 mm (AF)	No	01	
30.	Socket with 1" SD x 2 - 1/16" (AF)	No	01	
31.	Socket with 1" SD x 2 - 1/8" (AF)	No	01	
32.	Socket with 1" SD x 2 - 3/16" (AF)	No	01	
33.	Socket with 1" SD x 2 - 1/4" (AF)	No	01	
34.	With 1" SD x 2 - 3/8" (AF)	No	01	
35.	With 1" SD x 2 - 1/2" (AF)	No	01	
36.	With 1" SD x 2 - 9/16" (AF)	No	01	
37.	with 1" SD x 2 - 5/8" (AF)	No	01	

Ser No	Nomenclature	A/U	Qty	Remark
38.	With 1" SD x 2 - 3/4" (AF)	No	01	
39.	With 1" SD x 2 - 15/16" (AF)	No	01	
40.	With 1" SD x 3 1/8" (AF)	No	01	
41.	With SD x 55 mm (AF)	No	01	
42.	With 1" SD x 60 mm (AF)	No	01	
43.	With 1" SD x 65 mm (AF)	No	01	
44.	With 1" SD x 70 mm (AF)	No	01	
45.	With 1" SD x 75 mm (AF)	No	01	
46.	With 1" SD x 80 mm (AF)	No	01	
47.	Torque Multiplier (75' Ft Lbs Input and 750' Ft lbs output)	No	01	
48.	Ceiling Ton 03 Ton	No	01	
49.	Pipe Wrench 18"	No	01	
50.	Pipe Wrench 36"	No	01	
51.	Pipe Wrench 39"	No	01	
52.	Hammer 5lb	No	01	
53.	Hammer 10lb	No	01	
54.	Spanner Open Jaw Double ended 46-50mm	No	01	
55.	Spanner Open Jaw Double ended 55-60mm	No	01	
56.	Spanner Open Jaw and R/T Combination 1 5/8" - 1 1/2",	No	01	
57.	Spanner Open Jaw and R/T Combination 1 7/16" - 1 3/8",	No	01	
58.	Spanner Open Jaw and R/T Combination 1 3/4" - 2",	No	01	
59.	Spanner Open Jaw and R/T Combination 2 3/8" - 2 5/16",	No	01	
60.	Spanner Open Jaw and R/T Combination 2 7/16" - 2 1/2",	No	01	
61.	Spanner Open Jaw and R/T Combination 2 5/8" - 2 11/16",	No	01	
62.	Spanner Open Jaw and R/T Combination 2 3/4" - 2 25/32",	No	01	
63.	Spanner Open Jaw and R/T Combination 2 15/16" - 3"	No	01	
64.	Allen Key 9/16"-2"	No	23 Pcs	

APPX-3 TO
 ANXA TO
 ENGR DTE LTR NO.
 23.01.901.055.02.192.02.09.01.24
 DT 09 JANUARY 2024

LIST OF ARTIFICER ENGINEER AND MACHINIST TOOLS (39 LINE)

Ser	Name of Tools	A/U	Quantity	Rmk
	Artificer Engineer and Machinist Tools			
1.	Power Saw Machine	No	01	
2.	Electric Bench Drill Machine	No	01	
3.	Mini Lathe Machine	No	01	
4.	Power Angle Grinder	No	01	
5.	Electric Bench Grinder Machine	No	01	
6.	Vertical Drill Machine	No	01	
7.	Electric Power Hack Saw Machine	No	01	
8.	Mini Shaper Machine	No	01	
9.	Mini Milling Machine	No	01	
10.	Tools & Cutter Grinding Machine	No	01	
11.	Electric & Hand Grinding Machine	No	01	
12.	Pliers Side Cutting	No	01	
13.	Four Field Roller	No	01	
14.	Hack Saw Blade with Frame	No	01	
15.	Micrometer	No	01	
16.	Freed Cutter Set Box	Set	01	
17.	Adjustable Wrench	No	01	
18.	Ring Spanner	No	01	
19.	Circular Saw Machine	No	01	
20.	Sear Machine	No	01	
21.	Venire Slide Calipers	No	01	
22.	Grease Gun	No	01	
23.	Hand Vice	No	01	
24.	Table Vice	No	01	
25.	Bench Vice	No	01	
26.	Threat Gaze	No	01	
27.	Drill Bit Set	Set	01	
28.	Tap & Die Set	Set	01	
29.	Rod Cutter (Heavy Duty)	No	01	
30.	Socket Wrench Set	Set	01	
31.	Tri Square Set	Set	01	
32.	X-Cut Chisel Set	Set	01	
33.	File Set	Set	01	
34.	Screw Driver Set	Set	01	
35.	Glass Cutter Diamond Glazer	Set	01	
36.	Tin Cutter	Set	01	
37.	Sledge and Multi Hammer Set	Set	01	
38.	Wire Gauge	Cm	01	
39.	Steel Foot Ruler	No	01	

RESTRICTED

APPX -4 TO
ANX A TO
ENGR DTE LTR NO.
23.01.901.055.02.192.02.09.01.24
DT 09 JANUARY 2024

LIST OF ELECTRICAL TOOLS (24 LINE)

Ser	Name of Tools	A/U	Quantity	Rmk
	Electrical Tools			
1.	Mini Battery Charging Set	Set	01	
2.	Volt Meter	No	01	
3.	Mini Air Compressor (220V Motor)	No	01	
4.	Oil/Fuel Filling Machine Complete	No	01	
5.	Ampier Meter	No	01	
6.	AVO Meter	No	01	
7.	Switch Board	No	01	
8.	Mini Transformer	No	01	
9.	Motor (Single-Phase)	No	01	
10.	Auto Starter, Delta Starter	No	01	
11.	Motor, Three phase, 10 HP	No	01	
12.	Change Over Switch	No	01	
13.	Contester Digital	No	01	
14.	Pliers	No	01	
15.	Tester	No	01	
16.	Screw Driver	No	01	
17.	Chisel	No	01	
18.	Ball Pin Hammer	No	01	
19.	Soldering Iron	No	01	
20.	Nose Plier	No	01	
21.	Cutting Plier	No	01	
22.	Nipper Cutter Diagonal	No	01	
23.	Soft Hammer	No	01	
24.	Digital Tong Tester/Clamp on meter	No	01	

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RESTRICTED

LIST OF WELDING TOOLS (20 LINE)

Ser	Name of Tools	A/U	Qty	Rmk
	Welding Tools			
1.	Arc Welding Machine	No	01	
2.	Welding Machine Dom trolley	No	01	
3.	Mini Welding Generator Set	Set	01	
4.	Drill Machine	No	01	
5.	Mini Cutting Machine	No	01	
6.	Hand Grinding Machine (Small)	No	01	
7.	Hand Grinding Machine (Big)	No	01	
8.	Gas Cylinders	No	01	
9.	Gas Regulator	No	01	
10.	Gas Welding Set Complete	Set	01	
11.	Mini Angle Iron Cutting Machine	No	01	
12.	Gas Cutting Nozzle	No	01	
13.	Balance Spring 100 Kg	No	01	
14.	Eye Shield	Pair	01	
15.	Eye Goggles	Pair	01	
16.	Cutting Stone	No	01	
17.	Electric Compass Wing 7 inches	No	01	
18.	Pipe Bending Machine (Hydraulic)	No	01	
19.	Hand Gloves	No	10	
20.	Sledge Hammer 7/8 lbs	No	01	