

E6/37/16 Workshop outfit for Mechanic Diesel trade

SL NO	SI No in the syllabus	Item Description	Recommended sepcification	QUANT ITY REQUI RED
1	9	Anvil 50 Kgs with Stand	<u>Anvil 50 Kgs with Stand-</u> Drop forged steel made with suitable stand, square punch hole, proper beak shape.	1
2	17	Chain Pulley Block-3 ton capacity with tripod stand	<u>Chain Pulley Block-</u> 3 ton capacity, with tripod stand or trolley type stand, sufficient to withstand 3 ton capacity and above. Branded, new, Stand height should be adjustable.(Performance test and original catalog is needed)	1
3	33	Different type of Engine Bearing model	<u>Different type of Engine Bearing model -</u> LCV type, Ball, Roller, Tapered roller, Needle , shell, Angular contact roller bearings (Six in a set), Genuine parts, New.	1
4	34	Different type of piston model	<u>Different type of piston model -</u> LCV types (3 differnet types of petrol engines and 3 differnet types of diesel engines), Genuine parts, New.	1
5	58	Granite surface plate 1600 x 1000 with stand and cover	<u>Granite surface plate</u> -1600 x 1000x100mm With (suitable metal stand of height- 120cm) and cover, Mirror Finished top,	1
6	60	Grease Gun heavy duty trolley type 10 kg capciaty	<u>Grease Gun heavy duty trolley type</u> -10 kg capciaty ,heavy duty, trolley type, grease container, with jet hose, grease jet and all other accessories (if any), lever operated type. Branded,New. (Performance test and original catalog is needed), Warranty/guaranty started from the date of satisfied performance test only. Commissioning expense meet by the supplier.	1

7	137	Surface gauge with dial test indicator plunger type i.e. 0.01 mm	Surface gauge with dial test indicator- plunger type, Least count- 0.01 mm Solid base, with all accessories. with all accessories in a suitable box, calibration certificate from NABL approved lab in original to be produced along the instrument, Branded,New	4
8	142	Telescope gauge	Telescope gauge -With measuring head and accessories, with suitable box, Range 6-150mm, with suitable box, Branded,New (Performance test and original catalog is needed)	4
9	144	Thermostat	Thermostat valve	2
10	147	Torque wrenches 5-35 Nm, 12-68 Nm & 50-225 Nm	Torque wrenches- 5-35 Nm, 14-68 Nm & 50-220 Nm Pre adjustable, square headed rathet type, three nos in a set. IS 6789 : 2008	1
11	152	V' Block 75 x 38 mm pair with Clamps	'V' Block -75 x 38 mm pair with Clamps Hardened Steel made with two blocks and two clamps (IS2949-1992)	2
12	158	Water pump for dismantling and assembling	Water pump -For vehicular type, different types (LCV and HCV types) Genuine parts, New.	4
13	4	Bench lever shears 250mm Blade x 3mm Capacity	Bench lever shears - Cutting rods or plates up to 8 gauge, shearing length 80-85%, Cut upto 3mm sheet, 250mm Blade x 3mm Capacitywith replaceable blades.(Performance test and original catalog is needed) Warranty/guaranty started from the date of satisfied performance test only. Commissioning expense meet by the supplier.	1
14	9	Dual Magnetization Yoke : AC / HWDC, 230 VAC, 50Hz	Dual Magnetization Yoke : AC / HWDC, 230 VAC, 50Hz HWDC for subsurface flaw detection, Lifting capacity 27 kgs in DC, 5 kgs in AC mode. Portable MPI Units, (Performance test and original catalog is needed) Warranty/guaranty started from the date of satisfied performance test only. Commissioning expense meet by the supplier.	1

15	11	Grinding machine (general purpose) D.E. pedestal with 300 mm dia wheels rough and smooth	Grinding machine- (general purpose) D.E. pedestal with 300 mm dia wheels rough and smooth pedestal type, Three phase, AC, 230v, 50Hz, 1HP motor with rotary switch. With Cast iron base, grinding wheel driven by belt. (Performance test and original catalog is needed) Warranty/guaranty started from the date of satisfied performance test only. Commissioning expense meet by the supplier.	1
16	14	Hydraulic jack HI-LIFT type -3 ton capacity, and 5 Ton capacity	Hydraulic jack- HI-LIFT, with levers trolley type -3 ton capacity, and 5 Ton capacity (1 each)	1
17	15	Liquid penetrant Inspection kit	Liquid penetrant Inspection kit with Cleaner, Developer and remover in aerosol can. Including wire brush, connecting tube etc. (Performance test is needed)	1
18	17	Pipe Bending Machine (Hydraulic type) 12mm to 30mm	Pipe Bending Machine -(Hydraulic type) suitable for dia12mm to 30mm pipe.(Demonstration/Performance test for satisfactory supply and original catalog is needed) Warranty/guaranty started from the date of satisfied performance test only. Commissioning expense meet by the supplier.	1
19	18	Pneumatic rivet gun with standard accessories	Pneumatic rivet gun - with FRL, flexible hose, suitable connectors and adapters, shut off valve, drain valve, pipe fittings between compressor outlet and tool inlet, with all suitable sockets and all accessories. Max: pressure 110Psi, working 1 rivet per stroke, Brand new (Performance test and original catalog is needed) Warranty/guaranty started from the date of satisfied performance test only. Commissioning expense meet by the supplier.	2
20	19	Spring tension tester	Spring tension tester- Bench type, Range 0-20kg/sqcm, dial type with sound signal ratchet. Branded, New	1

21	20	Tin smiths bench folder 600 x 1.6mm	<p><u>Tin smiths bench folder-</u> 600 x 1.6mm, precision bending machine. Branded, New (Demonstration/Performance test for satisfactory supply and original catalog is needed) Warranty/guaranty started from the date of satisfied performance test only. Commissioning expense meet by the supplier.</p>	1
22	22	Welding plant Oxy-Acetylene complete (high pressure)	<p><u>Welding plant Oxy-Acetylene complete (high pressure)</u> 1.Oxygen and acetylene cylinders,:Oxygen cylinder with cap-capacity -7cu.m brand new, filled, high pressure, seamless steel gas cylinders, flat type, concave bottom cylinders as per,IS 7285 (part 2) 2004. Complete with neck ring and valve and cap, valve as per IS 3224, painted as specified under gas cylinder rules 2004, supported with manufactures test Welding plant Oxy-Acetylene complete (high pressure) certificate and approval from chief controller of explosives- Govt: of India, Nagpur. The test certificate should be valid for 05 years. 2.Dissolvedf acetylene cylinder with cap- Welding plant Oxy-Acetylene complete (high pressure) capacity 6cu.m :Brand new, filled, high pressure, seamless steel gas cylinders, flat type, concave bottom cylinders as per,IS 7285 (part 2) 2004. Complete with neck ring and valve and cap, valve as per IS 3224, painted as specified under gas cylinder rules 2004, supported with manufactures test certificate and approval from chief controller of explosives - Govt: of India, Nagpur. The test certificate should be valid for 02 years. 3.High Pressure welding torch No: 2 (ISI) with nozzle no:1,2,3,5 and 7:Gas welding blow pipe (torch) with flash back arrester for versatile applications using oxygen and acetylene gases. Five different nozzle nos of 1,2,3,5 and 7. Maximum plate thickness that can be welded 35mm, tip thread: M10x1. 4.Trolley for cylinders- 1 no 5. Adjustable spanner 10 inch: -1 no 6. Spindle key- 1no 7. Spark lighter- 1 no 8. Oxygen gas rubber hose inside dia -8mm ISI, Blue colour- 10</p>	1

23	23	Welding Transformer (150-300 Amps)	<p>Welding Transformer - (150-300 Amps)TRANSFORMER WELDING SET WITH ACCESSORIES</p> <p style="text-align: right;"><u>General</u></p> <p>1) Tyristorised power source (2) air - cooler machine , (3) linear current indicator scale, 4) class A- insulation with suitable buffering material for thermal resistance, (5) light weight and compact 6) protection class - IP 23</p> <p style="text-align: center;"><u>INPUT</u></p> <p>1) SUPPLY VOLTAGE - 415v , 3 phase 50 HZ AC (2) rated input current - 63A (3) rated input KVA - 15KVA</p> <p style="text-align: center;"><u>OUTPUT</u></p> <p>1) OUTPUT characteristics - constant current 2) range of welding current - 60- 300A 3) open circuit voltage - 66v (maximum) 4) power factor - 0.6 6) maximum out put (a) 60% duty cycle- 0- 400A b) 100% duty cycle - 230 A</p> <p style="text-align: center;"><u>Accessories</u></p> <p>1) welding cable (copper 50 sq. mm.) with holder - 5M - 1 No (2) return cable (copper 50sq .mm) with clamp - 5M - 1 no (3) power cable 5M- 1 no , (Performance test and original catalog is needed) Warranty/guaranty started from the date of satisfied performance test only. Commissioning expense meet by the supplier. (Branded, New.)</p>	1
24	6	Fire Extinguishers, first- aid box	<p>3.High Pressure welding torch No: 2 (ISI) with nozzle no:1,2,3,5 and 7:Gas welding blow pipe (torch) with flash back arrester for versatile applications using oxygen and acetylene gases. Five different nozzle nos of 1,2,3,5 and 7. Maximum plate thickness that can be welded 35mm, tip thread: M10x1.</p>	1