

E6/35/16 Hand tools for MECH: DIESEL trade

SL NO	Sl No in the syllabus	Item Description	Recommended specification	QUANTITY REQUIRED
1	1	Allen Key set of 12 pieces (2mm to 14mm)	Allen Key- set of 12 pieces (2mm to 14mm) Hexagonal key, complete set. Vanadium steel made. IS 3082-1988	12
2	2	Caliper inside 15 cm Spring	Caliper inside -15 cm Spring type, Mild steel made With Hardened tips- IS 4052-1983	12
3	3	Calipers outside 15 cm spring	Calipers outside- 15 cm spring type, Mild steel made With Hardened tips- IS 4052-1983	12
4	5	Dividers 15 cm Spring	Dividers- 15 cm Spring type, Mild steel made With Hardened tips- IS 4083-1967	9
5	6	Electrician Screw Driver 250mm	Electrician Screw Driver- 250mm length, blade dia5mm, tip dimension 5 x 0.8mm , Plastic handle and flat hard tip	8
6	7	Hammer ball peen 0.5 kg with handle	Hammer ball peen- 0.5 kg with Forged steel head, handle IS 841-1983	12
7	13	Scriber 15 cm	Scriber- 15 cm Hardened steel. IS 844-1979	10
8	16	Spanners socket with speed handle, T-bar, ratchet and universal upto 32 mm set of 28 pieces with box	Spanners socket -with speed handle, T-bar, ratchet and universal upto 32 mm, with box CRV steel, complete set in a box with extension rods.	11

9	17	Steel rule 30 cm inch and metric	Steel rule -30 cm inch and metric Stainless Steel made with Engraved readings. GRADE 304	9
10	19	Wire cutter and stripper	Wire cutter and stripper - Two jaw type, With insulated handle, 15cm, IS 5087-1969	12
11	1	Adjustable spanner (pipe wrench 350 mm)	Adjustable spanner- (350 mm) Steel made with parallel jaws. IS 4003 (1)1978	2
12	5	Allen Key set of 12 pieces (2mm to 14mm)	Allen Key- set of 12 pieces (2mm to 14mm) Hexagonal key, complete set. Vanadium steel made. IS 3082-1988	4
13	7	Angle plate adjustable 250x150x175	Angle plate- adjustable 250x150x175 With angle setting facility, all six faces accurately grounded 90°, true to one another.	1
14	8	Angle plate size 200x100x200mm	Angle plate- 250x150x175 With angle setting facility, all six faces accurately grounded 90°, true to one another.	2
15	14	Caliper inside 15 cm Spring	Caliper inside -15 cm Spring type, Mild steel made With Hardened tips- IS4052-1983	4
16	15	Calipers outside 15 cm spring	Calipers outside- 15 cm spring type, Mild steel made With Hardened tips- IS4052-1983	4
17	20	Circlip pliers Expanding and contracting type 15cm and 20cm each	Circlip pliers -contracting type 15cm and 20cm each, with hardened tips. (4 in a set)	2
18	21	Clamps C 100mm	Clamps C- 100mm With suitable handle. IS 9181-1988	2
19	22	Clamps C 150mm	Clamps C- 150mm With suitable handle. IS 9181-1988	2
20	23	Clamps C 200mm	Clamps C -200mm With suitable handle. IS 9181-1988	2
21	31	Depth micrometer 0-25mm	Depth micrometer -0-25mm Analog type, Least count 0.01mm, with all accessories in a box calibration certificate from NABL approved lab in original to be produced along the instrument, Branded, new. (With suitable box)	4
22	35	Dividers 15 cm Spring	Dividers- 15 cm Spring type, Mild steel made With Hardened tips- IS 4083-1967	4
23	37	Drill point angle gauge	Drill point angle gauge -With metric system units.	1

24	38	Drill twist 1.5 mm to 15 mm (various sizes) by 0.5 mm	Drill Twist -(assorted) (Consumables) HSS made straight shank, 0.5mm step	4
25	40	Electric testing screw driver	Electric testing screw driver - With neon bulb indicator, flat tip. IS 5579-1985	4
26	41	Engineer's square 15 cm. Blade	Engineer's square - 15 cm. Blade Stainless steel made.	1
27	49	Files assorted sizes and types including safe edge file (20 Nos)	Files- assorted sizes and types including safe edge file (20 Nos) Flat file, hand file, round file, half round file, square file, triangular file, safe edge file, rasp file, setting file and warding files, High carbon Steel made With 15cm and 20cm sizes each, Plastic Handles (set of 20 nos)-IS1931-2000	2
28	56	Gloves for Welding (Leather and Asbestos)	Gloves - For Welding (made of Leather and made of Asbestos) 1 SET EACH	5
29	62	Hacksaw frame adjustable 20-30 cm	Hacksaw frame - adjustable 20-30 cm Hand type, plastic handle and attachments of blades.- IS 5169-1986	7
30	64	Hammer Chipping 0.25 Kg	Hammer ball peen - 0.25 kg Forged, tool steel head, handle. IS 841-1983	5
31	65	Hammer copper 1 Kg with handle	Hammer copper - 1 Kg, Two faced type, handle	2
32	67	Hammer Plastic	Hammer Plastic -250gm, handle IS 10838-1984	4
33	68	Hand operated crimping tool (i) for crimping up to 4mm and (ii) for crimping up to 10mm	Hand operated crimping tool - (i) for crimping up to 4mm and (ii) for crimping up to 10mm With insulated handle. (One each)	1
34	69	Hand reamers adjustable 10.5 to 11.25 mm, 11.25 to 12.75 mm, 12.75 to 14.25 mm and 14.25 to 15.75 mm	Hand reamers -adjustable 10.5 to 11.25 mm, 11.25 to 12.75 mm, 12.75 to 14.25 mm and 14.25 to 15.75 mm HSS complete set with handle. (IS 236-1976)	1
35	70	Hand Shear Universal 250mm	Hand Shear -Universal 250mm	1
36	78	Left cut snips 250mm	Left cut snips -250mm	2
37	81	Magnifying glass 75mm	Magnifying glass -75mm Shatter resistant type with protecting cover	2

38	88	Outside micrometer 0 to 25 mm	Outside micrometer- 0 to 25 mm Analog type, Least count 0.01mm, with all accessories in a box, calibration certificate from NABL approved lab in original to be produced along the instrument, Branded,New (IS2967-1983)	3
39	89	Outside micrometer 25 to 50 mm	Outside micrometer 25 to 50 mm Analog type, Least count 0.01mm, with all accessories in a box, Calibration certificate from NABL approved lab in original to be produced along the instrument, Branded,New (IS2967-1983)	4
40	92	Philips Screw Driver set of 5 pieces (100 mm to 300 mm)	Philips Screw Driver- set of 5 pieces (100 mm to 300 mm), plastic handle,in step of 50mm.	2
41	93	Pipe cutting tool	Pipe cutting tool -Roller type with flare cut off groove, fold away reamer and spare cutting wheel under reamer, max size upto 28mm.Branded,New	2
42	94	Pipe flaring tool	Pipe flaring tool - Max size upto 13mm.Branded,New. (Performance test and original catalog is needed)	2
43	99	Pliers flat nose 15 cm	Pliers - flat nose 15 cm Forged steel, insulated handle	1
44	100	Pliers round nose 15 cm	Pliers- round nose 15 cm Forged steel, insulated handle	2
45	101	Pliers side cutting 15 cm	Pliers -side cutting 15 cm Forged steel, insulated handle IS 4378-1990	2
46	102	Portable electric drill Machine	Portable electric drill Machine - Single phase, Max: drill size Dia: 12mm with chuck key, Insulated handles and accessories, with suitable length of electrical wire. Max: speed between 1800 and 2200rpm. Branded,New. (Performance test and original catalog is needed)	1
47	108	Right cut snips 250mm	Right cut snips- 250mm	2
48	109	Rivet sets snap and Dolly combined 3mm, 4mm, 6mm	Rivetting sets (snap and dolly)- combined 3mm, 4mm, 6mm With snap holder.	2
49	113	Scriber 15 cm	Scriber- 15 cm Hardened steel. One end bend and other straight IS 844-1979	2
50	114	Scriber with scribing block universal	Scriber -with scribing block universal With solid base, swivel pole and all accessories. (Universal scriber block), New	2

51	115	Set of stock and dies -Metric	<u>Stock and dies</u> – Complete Set of 6mm to 24mm, HSS made Metric, with suitable box, New	1
52	116	Shear Tin Man's 450 mm x 600mm	<u>Shear Tin Man's</u> -450 mm x 600mm With suitable handle.	2
53	117	Sheet Metal Gauge	<u>Sheet Metal Gauge</u> -Stainless Steel made, metric, wear resistant type, New	2
54	118	Sher Tinmans 300mm	<u>Shaer Tinmans</u> -300mm With suitable handle.	4
55	127	Spark lighter	<u>Spark lighter</u> - For igniting gas welding tource.	2
56	130	Steel measuring tape 10 meter in a case	<u>Steel measuring tape</u> -10 meter in a case Steel engraved.	4
57	132	Steel rule 30 cm inch and metric	<u>Steel rule</u> -30 cm inch and metric Stainless Steel made with Engraved readings. GRADE 304	4
58	140	Taps and Dies complete sets (5 types)	<u>Taps and Dies</u> -complete sets (5 types) HSS made, BA,BSW, BSF, American and Metric threads	1
59	148	Trammel 30 cm	<u>Trammel</u> -with suitable box with all accessories, 30 cm	1
60	159	Wire Gauge (metric)	<u>Wire Gauge</u> - (metric) SWG, wear resistant type.	2