

**LIST OF TOOLS & EQUIPMENT FOR THE TRADE OF  
WELDER (GAS & ELECTRIC) Double Unit**

<b>S.NO.</b>	<b>NAME OF THE ITEM</b>	<b>STD LIST NO.</b>	<b>SPECIFICATION</b>
1	Leather hand gloves 14 "	1	14"
2	Cotton hand Gloves 8"	2	8"
3	Leather Apron leather	3	Standard
4	S.S Wire brush 5 rows and 3 rows	4	5 rows and 3 rows
5	Leather hand sleeves 16"	5	16"
6	Safety boots for welders	6	Standard
7	Leg guards leather	7	Standard
8	Rubber hose clips 1/2"	8	1/2"
9	Arc welding single coloured glasses 108 mm x 82 mm x 3 mm. DIN 11A &12 A	12	108 mm x 82 mm x 3 mm. DIN 11A &12 A
10	Arc welding plain glass 108 mm x 82 mm x 3 mm.	13	108 mm x 82 mm x 3 mm.
11	Gas welding Goggles with Colour glass 3 or 4A DIN	14	Colour glass 3 or 4A DIN
12	Safety goggles plain	15	Standard
13	AG 4 Grinding wheels	17	4" wheels
14	Welding helmet fiber	1	Very sturdy and light weight. With adjustable ratchet head gear.
15	Welding hand shield fiber	2	Very sturdy and light weight. . Standard vision 110 mm X 85mm
16	Chipping hammer with metal handle 250 Grams	3	Chipping hammer with spring handle 250 Grams
17	chisel cold flat 19 mm X150mm	4	chisel cold flat with face size 19mm, 150 length made of Hardened & Tempered High Carbon Steel
18	Centre punch 9 mmX127	5	centre punch with face 9mm, 127mm length and working point Hardened & Tempered High Carbon Steel
19	Dividers 200 mm	6	divider with 200 mm length, working point Hardened & Tempered High Carbon Steel
20	Stainless steel rule 300 mm	7	Standard Steel Rule of 300 mm Length ,both side marking in inches ,cm & mm
21	Scriber 150 mm double point	8	Scriber of 150mm length, both sides Hardened & Tempered High Carbon Steel pointed
22	Flat Tongs 350 mm long	9	tongs flat in size of 350mm long

23	Hacksaw frame fixed 300 mm	10	Standard Hacksaw Fixed frame made of Steel suitable for 300 mm blade fitment
24	file half round bastard 300 mm	11	A standard half round File 300 mm long Bastard Type made of High Carbon Steel with handle
25	File flat 350 mm bastard	12	A standard Flat File 350 mmlong Bastard Type made of High Carbon Steel with handle
26	Hammer ball pane 1 kg with handle	13	hammer ball pein 1 kg with wooden handle
27	Tip cleaner	14	standard cleaning wires sizes (No 1-5)
28	Try Square 6 "	15	Having length of 6 inches blade & having markings in inches, cm & mm made of Hardened Steel
29	Screw driver 300 mm blade and 250 mm blade	17	Screw driver of 300mm blade and 250 mm blade and having plastic handle
30	Number punch 6 mm	18	Hardened steel suitable to punch soft metals and mild steel. Number punch set of 0 to 9, of face 6mm & length 100 mm
31	Letter punch 6 mm	19	Hardened steel suitable to punch soft metals and mild steel. Letter punch set of A to Z (Capital) of face&length 100 mm
32	universal weld measuring gauge	21	For measurement of weld bead in flat & fillet joints , Available in Standard or Metric
33	Spanner D.E , 6 mm to 32 mm	23	Spanner set made of Drop forged carbon steel, Polished /Chrome Plated of sizes size 6-32m
34	C-Clamps 10 cm and 15 cm	24	Double-rolled thread for faster clamping and increased durability & Larger handle for greater clamping pressure with less effort and reduced hand fatigue & size 15 cm
35	S.S tape 5 meters flexible in	26	5 meters flexible Material with Measuring Scale Metric, Inch & Foot
36	CO2 gas pressure regulator wigh flow meter	31	Heavy duty double stage Regulator suitable for 230 bar inlet pressure and imported safety pressure gauges design for 300bar pressure
37	Argon gas pressure regulator with flow meter	32	Heavy duty double stage Regulator suitable for 230 bar inlet pressure and imported safety pressuregauges design for 300 bar service pressure
38	Black board and easel with stand	37	Blackboard and easal size 6 foot by 4 foot with stand
39	Flash back arrester (torch mounted)	38	A spring loaded non-return valve prevents slow or sudden reverse gas flow which could form explosive mixtures in the gas supply
40	Flash back arrester (cylinder mounted)	39	A temperature sensitive cut-off valve extinguishes sustained flashbacks long before the internal suddwn reverse gas flow foming explosive mixtures in the gas supply

41	GMAW welding machine 400A capacity with air cooled torch, Regulator, Gas preheater, Gas hose and Standard accessories	43	Input Voltage= AC 415V, 50hz, 3Ph, Frequency= 50 Hz, Output Current (Maximum) 400amps, Thyristor or diode type insulated F force air cooling type air cooled torch wire feeder permanent
42	AC/DC GTAW welding machine with water cooled torch 300 A, Argon regulator, Gas hose, water circulating system and standard accessories.	44	Input Voltage= AC 415V+ -10%.3 PH, Frequency= 50 Hz, Output Current (Maximum) 300amps, forced air cooled type rated duty cycle 60% Efficiency 85% class of insulated H forced air cooling type
43	Air Plasma cutting equipment with all accessories, capacity to cut 25 mm clear cut	45	Input Supply Voltage 415± 10%, 3 Phase, 50 Hz, Cutting Amps. Range mild steel recommed 25mm duty cycle @ 60% pilot ARC facility type of cooling forced air insullation class H9 25-80 amps cutting capacity
44	Air compressor suitable for air plasma cutting system	46	5 H.P, Double Cylinder, Double stage, 17.5 CFM, Working Pressure 175 PSI, Tank Capacity-250ltr
45	Auto Darkening Welding Helmet	47	Solar/Battery operated Automatic protection level 9-13 itch machine/equipment
46	Spot Welding Machine To 15 KVA With All Accessories	48	Spot welding machine easily pedal operated(mechanically). Machine should be suitable for connection 2 line of 400/415 volt, 3 phase 50 Hz supply, Input Volt 415± 10%, 2 line of 3 Phase, 50 Hz, Max. KVA-15, Max. capacity in MS sheet 5 to 10 MM (5+5)5, Throat Depth 400 MM Aprox, Throat clearance 200 MM Aprox, Transformer cooling-Natural Air
47	Bench grinder fitted with fine grain size silicon carbide green grinding wheel dia. 150 mm	51	Bench grinder fitted with fine grain size silicon carbide green grinding wheel dia. 150 mm 1.5 hp motor, 3ph,Spindle speed 1400 Rpm, 2800 RPM
48	AG 4 Grinder	52	235V AC ,50 Hz, 850 Watts, 13000 rpm, 100 mm Grinding wheel with Side Handle and Safety Guard
49	Suitable Arc welding table with positioner	54	Made of M.S. Angle iron frame 40x40x6mm, top M.S. flat, 35x10mm, Size: (L x W x H) 122cm x 92cm x60cm. ( 4' x 3' x 2' ) with positioner for welding in all positions
50	Work bench 340x120x75 cm with 4 bench vices of 150 mm jaw opening	60	Work bench 340x120x75 cm made of heavy wooden top of atleast 50mm thick wood and frame made of angle iron 50*50*6 mm fitted with rigis supports with 4 bench vices of 150 mm jaw opening
51	Oxygen ,Acetylene Cylinders	62	Standard size for commercial use
52	CO2 cylinder	63	Standard size for commercial use
53	Argon gas cylinder	64	Standard size for commercial use
54	Swage block	66	Swage block 50kg
55	Die penetrant testing kit	67	Cleaner, Penetrant , Developer (non-toxic & non-corrosive)

56	Magnetic particle testing Kit	68	Iron powder (Red & Black), (portable type)
57	Fire Bucket With Stand	70	Standard Fire Buckets 4 nos. ,made of GI material,Red painted and round bottom with handle and must be of 9 Litre Capacity filled with dry sand and stand have to arrangement for hanging of 4 Buckets stand made of MS Angle 35mm x 35mm x 4 mm
58	Portable Abrasive Cut-Off Machine	71	220v 50 Hz , 2100 watts, 3600 rpm/min , Wheel dia 14 inches
59	Suitable Gas cutting table	72	Specification :-Made of M.S. Angle iron frame 40x40x6mm a , top M.S. flat40x10mm Size: (L x W x H) ( 5' x 3' x 2.5' ) With Stool size 12x 12x18" made of 1" square pipe wt 16 SWG, stool top 3/4" laminated board
60	Welding Simulators for SMAW/GTAW/GMAW	73	input power 230V/50Hz, LED Monitor size large enough to accomadate work area , monitor with CPU,
61	Instructors lap top with latest (vista & above) configuration pre loaded with operating system. and MS Office package.	4	4th Generation intel i7 processor(3.4 GHz, 8 MB Cache with 4GB RAM, 1 TB harddisk, wi-fi enabled, USB optical mouse, 15"LED Screen , Standard ports and connectors, DVD Writer, inbuilt Speakers and Mic. with web camera with preloaded licensed window 8.1 or latest operating system and latest internet security input. preloaded licensed latest version MS Office .
62	Welding Process, Inspection & codes DVD/ CDs	6	