

Name of the Trade		Automotive Body Repair		
S.No.	Name of the item	Std List No.	Type of the item (Tool /	Specifications
(i)	(ii)	(iii)	(iv)	(v)
1	Allen Key set of 12 pieces (2mm to 14mm)	1	Tool	Allen Key set of 12 pieces (2mm to 14mm) Hexagonal key,complete set.
2	Body hammer (long pick)	2	Tool	Round pointed Pick head 6mm/1/4" 10oz, Crown faced round striking head 38mm/1 1/2" dia
3	Body hammer, cross chisel (finishing hammer)	3	Tool	Body hammer, cross chisel (finishing hammer), serrated Face square striking Head 35mm/13/8" square, 12oz, flat faced round striking head 38mm/1 1/2" dia
4	Body hammer, utility pick (short pick)	4	Tool	Round pointed Pick head 6mm/1/4" 10oz, Crown faced round striking head 38mm/1 1/2" dia
5	Caliper inside 15 cm Spring	5	Tool	Calipers inside 15 cm spring With Hardened tips
6	Calipers outside 15 cm spring	6	Tool	Calipers outside 15 cm spring With Hardened tips
7	Center Punch 10 mm. Dia. x 100 mm.	7	Tool	Center Punch 10 mm. Dia. x 100 mm.Carbon steel, With 90° point angle
8	Different type of spoon	8	Tool	Different type of body spoon-Body line chiesel-60°95mm
9	Dividers 15 cm Spring	9	Tool	Dividers 15 cm Spring With Hardened tips
10	Electrician Screw Driver 250mm	10	Tool	Electrician Screw Driver 250mm With Plastic handle and flat tip
11	General purpose dolly	11	Tool	Different type of dolly block- <u>curved dolly</u> -135*65mm, <u>utility dolly</u> -85*70mm, <u>Heel dolly</u> -85*70mm, <u>Toe dolly</u> -105*65mm
12	Hammer ball peen 0.5 kg with handle	12	Tool	Ball Peen Hammer 0.50 Kg Forged steel head with handle.
13	Hands file 20 cm. Second cut flat	13	Tool	Hands file 20 cm. Second cut flat with wooden handle
14	Pliers combination 20 cm.	14	Tool	Pliers combination 20 cm. with insulated handle
15	Safety glasses	15	Tool	Safety glasses Clear Glass with shatter resistant and dust protector
16	Screw driver 20cm.X 9mm. Blade	16	Tool	Screw driver 20cm.X 9mm. Blade With Insulated handle
17	Screw driver 30 cm. X 9 mm. Blade	17	Tool	Screw driver 30 cm. X 9 mm.With Insulated handle Blade
18	Scriber 15 cm		Tool	Scriber 15 cm Hardened steel.knurled, ponit 12 to 15 degree,double ended
19	Spanner D.E. set of 12 pieces (6mm to 32mm)	18	Tool	Spanner D.E. set of 12 pieces (6mm to 32mm) CRV Steel, open ended
20	Spanner, ring set of 12 metric sizes 6 to 32 mm.	19	Tool	Spanner, ring set of 12 metric sizes 6 to 32 mm CRV Steel,complete set..
21	Spanners socket with speed handle, T-bar, ratchet and universal upto 32 mm set of 28 pieces with box	20	Tool	Spanners socket with speed handle, T-bar, ratchet and universal upto 32 mm set of 28 pieces with box CRV steel, complete set in
22	Steel rule 30 cm inch and metric	22	Tool	Steel rule 30 cm inch and metric Stainless Steel with Engraved reading
23	Steel tool box with lock and key (folding type) 400x200x150 mm	23	Tool	Steel tool box with lock and key (folding type) 400x200x150 mm
24	Toe dolly	24	Tool	<u>Toe dolly</u> - Size 105*65mm
25	Wire cutter and stripper	25	Tool	Wire cutter and stripper Two jaw type,With insulated handle
26	Adjustable spanner (pipe wrench 350 mm)	1	Tool	Adjustable spanner (pipe wrench 350 mm) Steel made with parallel jaws

27	Air blow gun with standard accessories	2	Tool	Adjustable length: 165mm ~ 280mm. <u>Working pressure</u> -230psi/16KGS , <u>Average air consumption</u> is 8cfm, Made of light weight durable composite plastic,Angle nozzle easily gets into tight places.
28	Air impact wrench with standard accessories	3	Tool	Air impact wrench with standard accessories Square drive (inch)-3/8", <u>Bolt size</u> -M10, <u>Clutch Mechanism</u> -Dog single, <u>Working Torque</u> -50-270 N-M,Max Torque-310,Net weight-1.4Kg,Air inlet in NPTF-1/4", Min Hose Size-10mm
29	Air ratchet with standard accessories	4	Tool	Air Ratchet with standard accessories <u>Square drive (inch)</u> -3/8", <u>Bolt size</u> -M12, <u>Clutch Mechanism</u> -Dog single, <u>Working Torque</u> -13-122 N-M, <u>Max Torque</u> -122, <u>Net weight</u> -1.6Kg,, <u>Min Hose Size</u> -10mm, <u>Free speed</u> -160 RPM
30	Allen Key set of 12 pieces (2mm to 14mm)	5	Tool	Allen Key set of 12 pieces (2mm to 14mm)
31	Ammeter 300A/ 60A DC with external shunt	6	Tool	Ammeter 300A/ 60A DC with external shunt
32	Angle plate adjustable 250x150x175	7	Tool	Angle plate adjustable 250x150x175 With angle setting facility
33	Angle plate size 200x100x200mm	8	Tool	Angle plate size 200x100x200mm Solid 90°angled type
34	Anvil 50 Kgs with Stand	9	Tool	Anvil 50 Kgs with Stand
35	Battery –charger	10	Tool	Battery –charger Mains voltage 1PH volt-230,Output voltage-12&24, Charge current -30Amp, Staring cuurent-max/cc1v-300/200 , current regulation-4,Nominal capacity to refer to Ah min max-30-350,Size-330*245*730(mm),Weight-14.6Kg
36	Blow Lamp 1 litre	11	Tool	Blow Lamp 1 litre made of brass Kerosene, refillable
37	Caliper inside 15 cm Spring	12	Tool	Caliper inside 15 cm Spring with hardended tips
38	Calipers outside 15 cm spring	13	Tool	Calipers outside 15 cm spring With Hardened tips
39	Car Jet washer with standard accessories	14	Tool	1 Car Jet washer Single phase, trolley type, suitable to connect with pipe lines, washer hose with min: 10mtrs long, trigger type nozzle and all accessories.
40	Chain Pulley Block-3 ton capacity with tripod stand	15	Tool	Chain Pulley Block-3 ton capacity with tripod stand
41	Chisel 10 cm flat	16	Tool	Chisel 10 cm flat Octagonal stock, 60° cutting angle
42	Chisels cross cut 200 mm X 6mm	17	Tool	Chisels cross cut 200 mm X 6mm Octagonal stock
43	Circlip pliers Expanding and contracting type 15cm and 20cm each	18	Tool	Circlip pliers Expanding and contracting type 15cm and 20cm each
44	Clamps C 100mm	19	Tool	Clamps C 100mm With suitable handle.
45	Clamps C 150mm	20	Tool	Clamps C 150mm With suitable handle.
46	Clamps C 200mm	21	Tool	Clamps C 200mm With suitable handle.
47	Cleaning tray 45x30 cm.	22	Tool	Cleaning tray 45x30 cm.Leak proof, corrosion resistant type and 22 gauge thickness.
48	Collapsible panel stands	23	Tool	Collapsible panel stands
49	Copper bit soldering iron 0.25 Kg	24	Tool	Copper bit soldering iron 0.25 Kg
50	Crow bar 910 x25mm	25	Tool	Crow bar 910 x25mm
51	Cylinder bore gauge capacity 20 to 160 mm	26	Tool	Cylinder bore gauge capacity 20 to 160 mm With measuring head,extension rods, and all accessories
52	DC Ohmmeter 0 to 300 Ohms, mid scales at 20 Ohms	27	Tool	DC Ohmmeter 0 to 300 Ohms, mid scales at 20 Ohms
53	Depth micrometer 0-25mm	28	Tool	Depth micrometer 0-25mm ,Resolution:0.01mm ,Accuracy:0.004mm,Least count-0.001mm,standard temp-20 Degree celcius,permissible Error - +- 2%

54	Dial gauge type 1 Gr. A (complete with clamping devices and stand)	29	Tool	Dial gauge type 1 Gr. A (complete with clamping devices and stand)
55	Different type of Bumping hammers	30	Tool	<u>Pick hammer</u> -Round pointed Pick head 6mm/1/4" 10oz, Crown faced round striking head 38mm/1 1/2" dia
56	Different type of -body hammers	31	Tool	Different type of -body hammers , <u>Horizontal hammer &amp; vertical hammer</u> - serrated face square striking head 35mm / 1 3/8" square, flat faced round striking head 38mm / 1 1/2" dia , <u>pick hammer</u> - Round pointed pick head 6mm/1/4" ,10oz, Crown face round striking head 38mm / 1 1/2" dia,Wooden hammer
57	Different type of body picks	32	Tool	Different type of body picks- <u>Long pick &amp; short Pick</u> -Round pointed pick head 6mm/1/4" ,10oz, Crown face round striking head 38mm / 1 1/2" Dia
58	Different type of body spoon	33	Tool	Different type of body spoon-Body line chiesel-60*95mm
59	Different type of dolly block	34	Tool	Different type of dolly block- <u>curved</u> dolly-135*65mm, <u>utility dolly</u> -85*70mm, <u>Heel dolly</u> -85*70mm, <u>Toe dolly</u> -105*65mm
60	Different type of finishing hammers	35	Tool	Different type of -body hammers , <u>Horizontal hammer &amp; vertical hammer</u> - serrated face square striking head 35mm / 1 3/8" square, flat faced round striking head 38mm / 1 1/2" dia , <u>pick hammer</u> - Round pointed pick head 6mm/1/4" ,10oz, Crown face round striking head 38mm / 1 1/2" dia,Wooden hammer
61	Different type of pick hammers	36	Tool	Different type of body picks- <u>Long pick &amp; short Pick</u> -Round pointed pick head 6mm/1/4" ,10oz, Crown face round striking head 38mm / 1 1/2" Dia
62	Digital thermometer	37	Tool	Digital thermometer, Temperature scale centigrade & F User-Selective, Resolution: 1 degree C or 1 degree F, Inputs: One K-type Thermocouple, Measurement Range: -50 ~ 1300 degree centigrade, Accuracy: (18~28) degree centigrade, Maximum Input: 60V dc or 24V rms AC, Display: 31/2 digit liquid crystal display (LCD), Sampling Rate: 2.5 times per second , Battery: One 9 V battery, Dimensions (mm): 148(H)x71(W)x36(D), Power current: Approx. DC 2.8mA (typical) ,
63	Dividers 15 cm Spring	38	Tool	Dividers 15 cm Spring with hardened tips
64	Door handle tool (clip pullers)	39	Tool	Door handle tool (clip pullers)
65	Drift Punch Copper 15 Cm	40	Tool	Drift Punch Copper 15 Cm
66	Drill point angle gauge	41	Tool	Drill point angle gauge With metric system units
67	Drill twist 1.5 mm to 15 mm (various sizes) by 0.5 mm	42	Tool	Drill twist 1.5 mm to 15 mm (various sizes) by 0.5 mm HSS straight shank. Complete set 0.5mm step.
68	Electric Soldering Iron 230 V 60 watts 230 V 25 watts	43	Tool	Electric Soldering Iron 230 V 60 watts 230 V 25 watts with suitable handle & with stand
69	Electric testing screw driver	44	Tool	Electric testing screw driver With neon bulb indicator, flat tip.
70	Engineer's square 15 cm. Blade	45	Tool	Engineer's square 15 cm. Blade
71	Feeler gauge 20 blades (metric)	46	Tool	Feeler gauge 20 blades (metric)
72	File flat 20 cm bastard	47	Tool	File flat 20 cm bastard with wooden handle
73	File, half round 20 cm second cut	48	Tool	File, half round 20 cm second cut with wooden handle
74	File, Square 20 cm second cut	49	Tool	File, Square 20 cm second cut with wooden handle
75	File, Square 30 cm round	50	Tool	File, Square 30 cm round with wooden handle
76	File, triangular 15 cm second cut	51	Tool	File, triangular 15 cm second cut with wooden handle

77	Files assorted sizes and types including safe edge file (20 Nos)	52	Tool	Files assorted sizes and types including safe edge file (20 Nos)
78	Flat File 25 cm second cut	53	Tool	Flat File 25 cm second cut Hardened Steel With wooden/Plastic handle
79	Flat File 35 cm bastard	54	Tool	Flat File 35 cm bastard Hardened Steel With wooden/Plastic Handle
80	Garage rack	55	Tool	Garage rack Size- Length-7*Breadth2.5 (feet)
81	Granite surface plate 1600 x 1000 with stand and cover	56	Tool	Granite surface plate 1600 x 1000 with stand and cover
82	Grease Gun	57	Tool	Grease Gun Medium duty, 500ml
83	Grip Wrench 200mm	58	Tool	Grip Wrench 200mm
84	Growler	59	Tool	Growler Single phase, table top type.Growler with Probes & voltmeter,Armature testing dia above 35 for adjusting 6V/12V, 24V system. 0-30 Volt,Ammeter - 0 - 100 A,
85	Hacksaw frame adjustable 20-30 cm	60	Tool	Hacksaw frame adjustable 20-30 cm Hand type, with handle and attachments of blades.
86	Hammer Ball Peen 0.75 Kg	61	Tool	Ball Peen Hammer 0.75 Kg Forged steel head with handle
87	Hammer Chipping 0.25 Kg	62	Tool	Hammer Chipping 0.25 Kg
88	Hammer copper 1 Kg with handle	63	Tool	Hammer copper 1 Kg with handle Two faced type.
89	Hammer Mallet	64	Tool	Hammer Mallet Medium duty type with handle with 0.75Kg weight
90	Hammer Plastic	65	Tool	Hammer Plastic Medium duty type with handle with 0.75Kg weight
91	Hand operated crimping tool (i) for crimping up to 4mm and (ii) for crimping up to 10mm	66	Tool	Hand operated crimping tool (i) for crimping up to 4mm and (ii) for crimping up to 10mm
92	Hand reamers adjustable 10.5 to 11.25 mm, 11.25 to 12.75 mm, 12.75 to 14.75mm and 14.25 to 15.75mm	67	Tool	Hand reamers adjustable 10.5 to 11.25 mm, 11.25 to 12.75 mm, 12.75 to 14.75mm and 14.25 to 15.75mm
93	Hand Shear Universal 250mm	68	Tool	Hand Shear Universal 250mm
94	Hand vice – 37 mm	69	Tool	Hand vice – 37 mm With flat jaws
95	Hollow Punch set of seven pieces 6mm to 15mm	70	Tool	Hollow Punch set of seven pieces 6mm to 15mm
96	Insulated Screw driver 20 cm x 9mm blade	71	Tool	Insulated Screw driver 20 cm x 9mm blade With plastic handle, flat tip
97	Insulated Screw driver 30 cm x 9mm blade	72	Tool	Insulated Screw driver 30 cm x 9mm blade With plastic handle, flat tip
98	Interchangeable driver set	73	Tool	Interchangeable driver set
99	Lead light	74	Tool	Lead light
100	Left cut snips 250mm	75	Tool	Left cut snips 250mm
101	Lifting jack screw type 3 ton capacity	76	Tool	Lifting jack screw type 3 ton capacity
102	Magneto spanner set with 8 spanners	77	Tool	Magneto spanner set with 8 spanners
103	Magnifying glass 75mm	78	Tool	Magnifying glass 75mm Shatter resistant type with protecting cover
104	Marking out table 90X60X90 cm.	79	Tool	Marking out table 90X60X90 cm With Mild Steel ribbed legs and .2mm metal level, finished top, Paint coated

105	Multimeter digital	80	Tool	Multimeter digital , <b>Operating Temperature Range:</b> 5 to 40°C (41 to 104°F).. <b>Humidity Range:</b> 20 to 80% relative humidity.. <b>Power Requirements:</b> 100 or 115, 200 or 230 V AC (must be specified), 50 or 60 Hz.. <b>Power Consumption:</b> 20 VA max.. <b>Dimensions</b> (Approx.): 213(W) × 88(H) × 330(D) mm, (8-3/8 × 3-1/2 × 13").. <b>Weight</b> (Approx.): 3 kg,Ranging: AUTO, MANUAL, (remote control and programming possible), <b>Data Memory:</b> 1000 data, measured data can be stored and recalled: (STORE/RECALL).
106	Oil can 0.5/0.25 liter capacity	81	Tool	Oil can 0.5/0.25 liter capacity Hand type
107	Oil Stone 15 cm x 5 cm x 2.5 cm	82	Tool	Oil Stone 15 cm x 5 cm x 2.5 cm With rough and smooth sides
108	Outside micrometer 0 to 25 mm	83	Tool	<b>Measuring Range-</b> 0 to 25 mm, <b>Graduation or Least count-</b> 0.01mm, <b>Permissible error</b> -+-2 Measured value-0.3, <b>Mesasured Length-</b> 25 mm, <b>standard temperature-</b> 20 Degree ,celcuis,uncertainty of measurement -0.5 micro meter
109	Outside micrometer 25 to 50 mm	84	Tool	Measuring Range- 25 to 50 mm,Graduation or Least count-0.01mm,Permissible error-+-2 Measured value-0.3,Mesasured Length-50mm,standard temperature-20 Degree celcuis,uncertainty of measurement -0.5 micro meter
110	Outside micrometer 50 to 75 mm	85	Tool	Measuring Range- 50 to 75 mm,Graduation or Least count-0.01mm,Permissible error-+-2 Measured value-0.3,Mesasured Length-75mm,standard temperature-20 Degree celcuis,uncertainty of measurement -0.5 micro meter
111	Outside micrometer 75 to 100 mm	86	Tool	Measuring Range- 75 to 100 mm,Graduation or Least count-0.01mm,Permissible error-+-2 Measured value-0.3,Mesasured Length-100 mm,standard temperature-20 Degree celcuis,uncertainty of measurement -0.5 micro meter
112	Panel assembly hold/support arms	87	Tool	Door Mounting Stand & Power lock stand,
113	Panel cutter (two-way nibbler)	88	Tool	Air saw-Cutting capacity mm in steel-1.6mm,Strokes/ min-2/5"(10mm),Net weight-0.88kg,Air inlet in NPTF-1/4",Min Hose size-10mm, Free Speed -5000rpm,Air inlet-1/4", Air pressure -6.2bar, Air consumption-4 cfm, overall length-9-5/6"(250mm)
114	Philips Screw Driver set of 5 pieces (100 mm to 300 mm)	89	Tool	Philips Screw Driver set of 5 pieces (100 mm to 300 mm) With plastic handle, 50mm step
115	Pipe cutting tool	90	Tool	Pipe flaring tool Medium duty type.
116	Pipe flaring tool	91	Tool	Pipe cutting tool Medium duty type
117	plastic feeler gauges	92	Tool	plastic feeler gauges
118	Pliers combination 20 cm.	93	Tool	Pliers combination 20 cm.withforged steel insulated handle
119	Pliers flat nose 15 cm	94	Tool	Pliers flat nose 15 cm with forged steel insulated handle
120	Pliers round nose 15 cm	95	Tool	Pliers round nose 15 cm with forged steel insulated handle
121	Pliers side cutting 15 cm	96	Tool	Pliers side cutting 15 cm with forged steel insulated handle
122	Portable electric drill Machine	97	Tool	Portable electric drill Machine Max: drill size Dia: 12mm with chuck key, Insulated handles and accessories. Max: speed between 1800 and 2200rpm.
123	Prick Punch 15 cm	98	Tool	Prick Punch 15 cm
124	Punch Letter 4mm (Number)	99	Tool	Punch Letter 4mm Carbon steel made, complete set.
125	Right cut snips 250mm	100	Tool	Right cut snips 250mm

126	Rivet sets snap and Dolly combined 3mm, 4mm, 6mm	101	Tool	Rivet sets snap and Dolly combined 3mm, 4mm, 6mm
127	Scraper flat 25 cm	102	Tool	Scraper flat 25 cm
128	Scraper half round 25 cm	103	Tool	Scraper half round 25 cm
129	Scraper Triangular 25 cm	104	Tool	Scraper Triangular 25 cm
130	Scriber 15 cm	105	Tool	Scriber 15 cm
131	Scriber with scribing black universal	106	Tool	Scriber with scribing black universal
132	Set of stock and dies - Metric	107	Tool	Set of stock and dies - Metric
133	Shear Tin Man's 450 mm x 600mm	108	Tool	Shear Tin Man's 450 mm x 600mm
134	Sheet metal cutting pliers-left , right hand and straight –jaw	109	Tool	Sheet metal cutting pliers-left , right hand and straight –jaw
135	Sheet Metal Gauge	110	Tool	Sheet Metal gauge (SWG), HCS
136	Sher Tinmans 300mm	111	Tool	Sher Tinmans 300mm
137	Soldering Copper Hatchet type 500gms	112	Tool	Soldering Copper Hatchet type 500gms
138	Solid Parallels in pairs (Different size) in Metric	113	Tool	Solid Parallels in pairs (Different size) in Metric Steel made with,wing nut holding. 5mm-20mm (4 different sizes)
139	Spanner Clyburn 15 cm	114	Tool	Spanner Clyburn 15 cm
140	Spanner D.E. set of 12 pieces (6mm to 32mm)	115	Tool	Spanner D.E. set of 12 pieces (6mm to 32mm) CRV Steel, open ended
141	Spanner T. flocks for screwing up and up-screwing inaccessible	116	Tool	Spanner T. flocks for screwing up and up-screwing inaccessible
142	Spanner, adjustable 15cm.	117	Tool	Spanner, adjustable 15cm.
143	Spanner, ring set of 12 metric sizes 6 to 32 mm.	118	Tool	Spanner, ring set of 12 metric sizes 6 to 32 mm.
144	Spanners socket with speed handle, T-bar, ratchet and universal upto	119	Tool	Spanners socket with speed handle, T-bar, ratchet and universal upto 32mm
145	Spark lighter	120	Tool	Spark lighter
146	Spark plug spanner 14mm x 18mm x Size	121	Tool	Spark plug spanner 14mm x 18mm x Size
147	Spirit level 2V 250, 05 metre	122	Tool	Spirit level 2V 250, 05 metre Steel encased type
148	Steel measuring tape 10 meter in a case	123	Tool	Steel measuring tape 10 meter in a case Steel engraved.
149	Steel rule 15 cm inch and metric	124	Tool	Steel rule 15 cm inch and metric Stainless Steel with Engraved reading
150	Steel rule 30 cm inch and metric	125	Tool	Steel rule 30 cm inch and metric Stainless Steel with Engraved reading
151	Steel wire Brush 50mmx150mm	126	Tool	Steel wire Brush 50mmx150mm
152	Straight edge gauge 2 ft.	127	Tool	Straight edge gauge 2 ft.
153	Straight edge gauge 4 ft.	128	Tool	Straight edge gauge 4 ft.
154	Stud extractor set of 3	129	Tool	Stud extractor set of 3 With handle.
155	Stud remover with socket handle	130	Tool	Stud remover with socket handle With all accessories.
156	Suction cup	131	Tool	Suction cup-Pad Shape-Bellows,Pad type- pad only,Mounting type- Recessed type,Material-Silicon Rubber group,Temp Range -94 to 600 dgree farhenheit,

157	Surface gauge with dial test indicator plunger type i.e. 0.01 mm	132	Tool	Surface gauge with dial test indicator plunger type i.e. 0.01 mm
158	Taps and Dies complete sets (5 types)	133	Tool	Taps and Dies complete sets (5 types) BA,BSW, BSF, Americanb and Metric threads (1/4" to 1/2")
159	Taps and wrenches - Metric	134	Tool	Taps and wrenches - UNC, UNF and metric HSS with suitable set of taps, complete set ( M6 to M12)
160	Telescope gauge	135	Tool	Telescope gauge With measuring head and accessories
161	Thread pitch gauge metric, BSW	136	Tool	Thread pitch gauge metric, BSW
162	Torque wrenches 5-35 Nm, 12-68 Nm & 50-225 Nm	137	Tool	Torque wrenches 5-35 Nm, 12-68 Nm & 50-225 Nm
163	Trammel 30 cm	138	Tool	Trammel 30 cm
164	Trim and upholstery tools	139	Tool	Trim and upholstery tools
165	Tyre pressure gauge with holding nipple	140	Tool	Tyre pressure gauge with holding nipple Dial type, Branded
166	Universal puller for removing pulleys, bearings	141	Tool	Universal puller for removing pulleys, bearings 3 leg type, max spread 150mm, 250mm and 350mm
167	V' Block 75 x 38 mm pair with Clamps	142	Tool	V' Block 75 x 38 mm pair with Clamps ,Steel made with two blocks
168	Vacuum gauge to read 0 to 760 mm of Hg.	143	Tool	Vacuum gauge to read 0 to 760 mm of Hg.
169	vernier caliper 0-300 mm with least count 0.02mm	144	Tool	vernier caliper 0-300 mm with least count 0.02mm
170	Vice grip pliers	145	Tool	Vice grip pliers
171	Voltmeter 50V/DC	146	Tool	Voltmeter 50V/DC
172	Wire Gauge (metric)	147	Tool	Wire Gauge (metric)
173	Work bench 250 x 120 x 60 cm with 4 vices 12cm Jaw	148	Tool	Work bench 250 x 120 x 60 cm with 4 vices 12cm Jaw
	<b>Gerenal installation / Machineries</b>			
174	Angle grinder (10-12 cm) - for cutting and grinding	1	Equipment	Angle grinder (10-12 cm) - for cutting and grinding hand operated, <u>Pad Size:2"</u> , <u>Free speed -22000rpm</u> , <u>Overall length -5-1/2"</u> (1400mm), <u>Tool weight</u> 1.17bs(0.53Kg), <u>Spindle Thread Size</u> ;3/8""24 <u>Air inlet Thread NPT-1/4"</u> , <u>Air hose I.D. Size</u> ;3/8"(10mm), <u>Avg Air consumption</u> -3cfm, <u>Air pressure</u> -90-120psi
175	Arbor press hand operated 2 ton capacity	2	Equipment	Material – Cast Iron. Punch- Die steel. Capacity -500 KG, Hand Operated, Required make with I.S.I. Certification
176	Belt sander (Narrow surface)	3	Equipment	<u>Variable Speed</u> -16000 rpm <u>Pad or Disc Dia-</u> 10x330 mm <u>Net wt.</u> -.8 kg. <u>Air Inlet</u> 1/4" Minimum Hose Size- 3/8" <u>Belt Size-</u> 20*520mm, <u>Free Speed</u> -20000 rpm, <u>Tool weight</u> -1.5Kg, <u>Tool Length</u> -380mm, <u>Air Consumption</u> -30cfm, <u>Vibration</u> - <2.5m/s2, <u>Sound Level</u> -90.5db(A), <u>Sound Power</u> -101.5db(A) , <u>Air pressure</u> -90psi(6.3 bar)
177	Bench lever shears 250mm Blade x 3mm Capacity	4		Bench lever shears 250mm Blade x 3mm Capacity

178	Body measurement tools- Gunsight, trammel gauge, 2m straight edge & measuring tape	5	Equipment	Body measurement tools- Gunsight, trammel gauge, 2m straight edge & measuring tape
179	Body repair hand tools – Various hammers, dollies, spoons, files, line chiesel , hachsaw , clamps & sanding blocks	6	Equipment	Body repair hand tools – Various hammers, dollies, spoons, files, line chiesel , hachsaw , clamps & sanding blocks
180	Body shell - Light Motor vehicle of different Manufactures	7	Equipment	Front Door , Rear Door , Front Fender , Rear Fender, Quarter Pannnel,Dower back
181	Bonded auto glass removal & replacement tools	8	Equipment	Bonded auto glass removal & replacement tools
182	Caulking / panel seam sealer / panel adhesive application gun	9	Equipment	Caulking / panel seam sealer / panel adhesive application gun
183	Chassis alignment equipment (incorporating measurement system)	10	Equipment	Chassis alignment equipment (incorporating measurement system)
184	compressed air line -10m (on retractable reel, with high flowconnectors) with FRL unit	11	Equipment	compressed air line -10m (on retractable reel, with high flowconnectors) with FRL unit
185	Die Grinding kit	12	Equipment	Die Grinding kit , <u>Free speed</u> -22000rpm, <u>air consumption</u> -4cfm, <u>operating pressure</u> -90psi, <u>air inlet size</u> -1/4"BSp,6mm <u>shanked stones</u> -5, 3mm shanked stones-5 , max speed of grinding stone-27000rpm,shank-3mm to 6mm
186	Disc sander – 18cm	13	Equipment	<u>Disc capacity</u> - 4" , <u>free speed</u> 10000 rpm <u>Net weight</u> 1.7 kg. <u>Air inlet</u> - 1/4" , <u>Vaccum type</u> - Self vaccum, Pad face- 75*100mm clean sanding pad vaccum, <u>Height</u> -83.5mm , <u>Length</u> -139.3mm, <u>Noise level</u> -73dBA, <u>Vibrating Level</u> - 3m/sec2, <u>Air Pressure</u> -6.2 bar, <u>Maximum Hose length</u> -8 m, <u>Air line Size minimum</u> -10mm
187	Discrete Component Trainer / Basic Electronics Trainer	14	Equipment	Discrete Component Trainer / Basic Electronics Trainer,AC Supplies :9-0-9 V AC / 500 mA.,Veroboard :Unique veroboard type socket with termination for use of external components I IC's up to 20 pin without soldering.,Potentiometer :Three Potentiometers (1K,10K and I00K) with terminations,Speaker :One 8 ohms miniature speaker with terminations.,Relay :One 1 2V I 1 C. 0. relay with terminations.,Power ON :Power ON switch with indicator for mains on indication and fuse for protection,Patch Cords :Set of 20 assorted coloured multi-stand wires with 2 mm termination at both ends.,Power :230V 10% single phase AC. Requirement,



188	Drilling machine bench to drill up to 12mm dia along with accessories	15	machinery	<p>Bench Type Drill Machine confg. To IS:2426 of 1985 with specifications and standard accessories as under :</p> <p>SPECIFICATIONS:-</p> <p>Drilling Capacity in Mild Steel : 13mm , Max Distance from Spindle centre : 200mm + 5%</p> <p>Max Distance from Spindle Nose to Base : 600mm + 3% , Max Distance from Spindle Nose to Table : 275mm + 5%</p> <p>Spindle M.T. : 2 , No. of Spindle speed : 5 , Range of Spindle speed in RPM : 275 to 2800 rpm + 2%</p> <p>Spindle Travels : 110mm + 5% , Round Table Working Surface : 250mm + 5%</p> <p>Power required in HP : 0.5 HP, 3-phase , Electric Motor</p> <p>ACCESSORIES:</p> <p>1. 0.5 HP, 3-phase, AC Electric Motor, 400/440V , RPM 2800 + 2%</p> <p>2. Suitable starter of above motor , 3. One V Belt , 4. One drill drift , 5. Oil Cane (Pressure Type)</p> <p>6. One set of Allen keys (Set of 2 pcs) , 7. Set of spanner (Set of 3 pcs) , 8. Instruction Manual</p> <p>9. REVERSING SWITCH WITH FITTING , 10. Drill chuck size 13mm capacity with abour and key.</p> <p>11. Machine vice 4" size opening of jaw 100mm</p> <p>Note: Variation allowed in sizes + 5%.</p>
189	Dual Magnetization Yoke : AC / HWDC, 230 VAC, 50Hz	16	machinery	Dual Magnetization Yoke : AC / HWDC, 230 VAC, 50Hz
190	Dust extraction connections (Vacumm)	17	Equipment	<u>Power consumption</u> -1100 watt, <u>Suction capacity</u> -151cfm, <u>Static water lift</u> -98.4", <u>Capacity</u> -5.8 gal, <u>Weight</u> -17.9lbs, <u>Cable with plug</u> -17.9ft,with <u>Asscessories</u> -1 suction hose 4m with 35mm dia, 1 filter bag,1 dusting brush,1 elbow,1 cervice tool,
191	Electronic heat shrinking equipment (carbon rod, induction or copper	8500	Equipment	Electronic heat shrinking equipment (carbon rod, induction or copper ), <u>Power suply</u> - single phase220-240v 30A,Max input-18KVA, <u>Rated Capacity</u> -8.8kw, <u>Duty cycle</u> -15%,control method-IC control, <u>Output Cable</u> -50square,2m, <u>Input cable</u> -3.5square*7m, <u>Dimensions</u> H210*W210*L410, <u>Weight</u> -27Kg
192	Gas Welding Table 1220mm x760mm	19	Equipment	<p>Gas Welding table top fire bricks with positional made of MS Angle Iron Frame 40x40x6mm &amp; Support MS Flat 35x6 mm</p> <p>Size of Table 900x900x700 mm.high,</p> <p>1) covered height three side sheet thickness 3 mm ( Black Sheet) Height 24" ( Arc Welding Table).</p> <p>2) Welding Tray Sheet thickness 3 mm ( Black Sheet) ( Gas &amp; Arc Welding Table).</p>
193	Grinding machine (general purpose) D.E. pedestal with 300 mm dia wheels rough and smooth	20	machinery	<p>DE PEDESTAL GRINDER (200MM)</p> <p>Double Ended Pedestal Grinder complete with steel fabricated pedestal body, double shaft in-built electric motor suitable for 400/440V, 3 Ph, 50 Hz alongwith on-off rotary switch, set of grinding wheel, wheel guard, eye shield and tool rest bracket which is adjustable both in horizontal and vertical.</p> <p>Wheel dia. : 200mm , Wheel width : 25mm, Wheel bore : 16mm , Centre distance : 400mm</p> <p>Centre height : 910mm , R.P.M : 2800 , HP at Motor : 0.5 KW</p>

194	Hydraulic jack HI-LIFT type -3 ton capacity, 5 ton capacity	21	machinery	Minimum height 130, maximum height 410 mm. Size 632x242x160 mm Net Weight. 19 Kg, capacity 3000kg
195	Infrared drying lamp unit	22	Equipment	Hydraukic Lifter turning arroung 300 degree ,short wave infra red technology , <u>Automatic Distance Censor</u> ,LED disply with electronic timer, <u>Lamps -3300W capacity @1100W</u> each,Indepentent Lamp switch on,Filterd lamps
196	Liquid penetrant Inspection kit	23	Equipment	Liquid penetrant Inspection kit standard type.
197	MIG welding machine complete set 400Amps	24	machinery	Technical Specification A) POWER SOURCE 1. Maximum Welding current 400 Amps. 2. Input supply 3 Phase, 400/440 Volt± 10%, 50Hz 3. Open circuit voltage 15-34 V DC (Stepless Thyristoried Control), 4. Maximum welding current @ 60%.....400 Amps. @ 100 %.....310 Amps. , 5. Cooling Forced Air , 6. Class of insulation H B) WIRE FEEDER 1. Drive system Servo wire feeder. 2. Feed Mechanism 2T/4T Roll drive quick change over 3. Wire speed control Thyristorised, 4. Wire Feed speed 1.0 to 18.0 M/Min., 5. Wire drive motor DC Universal , 6. Wire Dia for MS 0.8, 1.2, 1.6 MM , 7. SS & Alluminium 1.2, 1.6 MM C) TORCH 1. Rated current capacity @ 60% duty cycle for Co2 400 Amps. , 2. Cooling Gas Cooling , 3. Cable Hose Length 3 Meter Minimum D) ACCESSORIES 1. Gas Pre Heater AC Single phase , 2. Gas regulator with flow meter, 3. For CO <sup>2</sup> Torches shall be provided with accessories like contact tips nozzles spare rolls extra for hard wire., 4. Wires spool 1.2 MM Dia, 5. Tool kit for plant fitting , 6. Instruction manual with circuit diagram extra.
198	Motor Vehicle suitable for Body shop repair –Light Motor vehicle ofdifferent Manufactures	25	machinery	Motor Vehicle suitable for Body shop repair –Light Motor vehicle ofdifferent Manufactures
199	Oxy-acetylene welding equipment with complete accessories ( Low &high	26	machinery	Oxy-Acetylene Welding set./ plant complete with cylinder regulator, Welding Torches with different nozzle 15 meter pipes, Required make with I.S.I. Certification

200	Pipe Bending Machine (Hydraulic type) 12mm to 30mm	27	machinery	<p>PIPE BENDING MACHINE MANUAL WITH DIES ¼ “, ½ “, ¾ “, 1” &amp; 1 ¼ “ UPTO 32MM</p> <ul style="list-style-type: none"> <li>• Capacity Up to 32mm</li> <li>• Manual Operation Easy to Set &amp; Operate</li> <li>• Smooth Wrinkle Free Bends.</li> <li>• Sharp Bends Up-to 1.5D</li> <li>• No Filling of Sand Or Spring.</li> <li>• Dies ¼ “, ½ “, ¾ “, 1” &amp; 1 ¼ “ Up to 32mm.</li> <li>• Working Table: 24” x 24”x 36”</li> </ul>
201	Plasma cutter	28	Equipment	Cutting Thickness 7-10 mm,Cutting Current 5-30 amp. Electronic stepless regulation, High Duty Cycle low weight.
202	Pneumatic rivet gun	29	Equipment	<p>PNEUMATIC RIVETING MACHINE OF DEPTH OF 50mm</p> <p>Rivets maximum shank diameter : 10 mm</p> <p>Maximum working pressure : 10 bar</p> <p>Maximum punch force (at 10 bar) : 55.000 N</p> <p>Maximum punch stroke : 50 mm</p> <p>Maximum punch speed : 27 mm/sec</p> <p>Distance between punch axis and machine body (throat depth) : 170 mm</p>
203	Power hacksaw kit	30	Equipment	<b>Power hacksaw kit</b> , Air hammer,Air saw file,Air knife,chipping hammer,shank size-0.401mm, blows /min-3800, Net weight-1.65kg,Air inlet-1/4",min Hose size-3/8",Air saw - Cutting capacity-1.6mm(in steel),strokes /min-10000,Air Saw-Cutting capacity mm in steel-1.6mm,Strokes/ min-2/5"(10mm),Net weight-0.88kg,Air inlet in NPTF-1/4",Min Hose size-10mm, Free Speed -5000rpm,Air inlet-1/4", Air pressure -6.2bar, Air consumption-4 cfm, overall length-9-5/6"(250mm)
204	Random /dual action orbital sander (12-15 cm)	31	Equipment	Random /dual action orbital sander (12-15 cm) standard Type ,feed speed 15000 rpm,orbit diameter 5 mm,pad or disc dia-.95mm,net weight -1.26kg,air inlet in NPTF-1/4,paper adhesion-glue or velcro, Height-83.5mm Length-139.3mm,Noise Level-73 ,Vibration Level-3 m/sec2 , Air Pressure-6.2 bar,Max hose lenght-8 m , Air line Size-10mm,self dust extraction system,built in power regulator,balanced ball bearing construction,
205	Spot weld cutter- Drill type, Hole saw type	32	Equipment	Spot weld cutter- Drill type, Hole saw type
206	Spot weld removal kit / drill along with accessories	33	Equipment	Spot weld removal kit / drill along with accessories

207	Spot welder (single and double sided)	34	machinery	<p>Spot welding machine easily operated pedal and pneumatically operated/mechanically operated. Machine should be suitable for connection 2 line of 400/440 volt, 3 phase 50 Hz supply and should confirm to the following specification.</p> <p>Technical Specification</p> <ol style="list-style-type: none"> <li>1. Input supply 415± 10%, 2 line of 3 Phase, 50 Hz,</li> <li>2. Max. KVA 15</li> <li>3. secondary voltage 2.0-4.6 volt.</li> <li>4. Max. capacity in MS sheet 5 to 10 MM (5+5)</li> <li>5. Throat Depth 400 MM Aprox.</li> <li>6. Throat clearance 200 MM Aprox.</li> <li>7. Transformer cooling Natural Air</li> <li>8. Tongs &amp; Tips cooling Water</li> <li>9. Inlet cooling water temperature 30°C</li> <li>10 Rate of water flow 4.5 Liter Per Minute.</li> <li>11. Number of output selection 5 - 10</li> <li>12. Operation Pedestal/pneumatic</li> </ol>
208	Tin smiths bench folder 600 x 1.6mm	35	Equipment	Tin smiths bench folder 600 x 1.6mm
209	Trolley type portable air compressor single cylinder with 45 liters capacity Air tank, along with accessories & with working pressure 6.5kg/sq cm	36	machinery	Trolley type portable air compressor single cylinder with 45 liters capacity Air tank, along with accessories & with working pressure of 6.5 kg/sq cm 3 phase 3 hp motor no of cylinder single piston displacement 7.40 cfm. tank capacity 500 spi GG a auto cut with safety gauard.
210	Weld through primer application equipment	37	Equipment	Weld through primer application equipment
211	Welding plant Oxy-Acetylene complete ( high pressure)	38	machinery	<p>WELDING PLANT OXYACETYLENE COMPLETE (HIGH PRESSURE)</p> <p>GAS CUTTING AND WELDING SET</p> <ol style="list-style-type: none"> <li>1) DOUBLE STAGE REGULATIONS FOR OXYGEN AND ACETYLENE suitable for 230 bar inlet pressure and imported safety pressure gauges designed for 300 bar service pressure, confirming to EN-837 standards.</li> <li>2) GAS CUTTING TORCH</li> <li>3) HIGH PRESSURE BLOW PIPE</li> <li>4) CYLINDER TYPE FLASH BACK ARRESTORS with protection valves.</li> <li>5) TORCH TYPE FLASH BACK ARRESTORS</li> </ol> <p>* It should have both check valve and sintered filter</p> <ol style="list-style-type: none"> <li>6) Hoses 8mm should be supply ten meter along with clamps and ripples. Cylinder trolley should be of tubes castor wheels.</li> </ol>

212	Welding Transformer ( 200 to 400 Amps)	39	Equipment	<p>Technical Specification</p> <p>A) POWER SOURCE</p> <p>1. Input supply 415± 10%, 50 Hz, 3 Phase four wire system</p> <p>2. Output characteristics CC Type 3. Open circuit voltage 80 Volt</p> <p>4. Welding current range 400 Amps. Maximum continuous @ 35% 400 Amps./36 Volt</p> <p>5. Maximum continuous @ 60% 15 Amps./33 Volt , 6. Hand welding current @ 100% 240 Amps./30 Volt , 7. Welding electrode range Max. Dia 2 mm to Dia 6.3 MM, 8. Class of insulation H , 9. Protection class IP 23 , 10. Type of cooling Air Natural ,</p> <p>ACCESSORIES</p> <p>1. Welding cable section (CU) 70 MM<sup>2</sup> (as per IS 9875-1990) 5 Metre(Minimum).</p> <p>2. Earth Cablesection (CU) 70 MM<sup>2</sup> 5 Metre(Minimum)</p> <p>(as per IS 9875-1990) , 3. Electrode holder fully insulated 600 Amps. (as per BS-EN 60974-II) One</p> <p>4. Earth clamp (copper/brass jaws) 600 Amps. (as per BS-638) One, 5. Chipping hammer One</p> <p>6. Moulded type hand/helmet screen (glass size : 108 x 80 MM) One</p> <p>7. Instructional manual with Two circuit diagram</p>
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