

**LIST OF RAW MATERIALS REQUIRED FOR PLUMBER TRADE FOR ITI  
BHADDU/BILLAWAR SESSION 2012-13**

**Tool Kit:-**

<b>S.N o.</b>	<b>Items</b>	<b>Make</b>	<b>Rate in Rs.</b>
1	Steel rule 300 mm (Both in inch and mm.		
2	Wooden rule 4 fold 600 mm.		
3	Hacksaw frame adjustable for 250 to 300 mm.		
4	Scriber 200 mm.		
5	Center punch 100 mm.		
6	Chisel cold flat 20 x 250 mm.		
7	Hammer ball peen 800 gms.		
8	Hammer ball peen 300 gms.		
9	File flat rough 300 mm.		
10	Sprit level wooden 300 mm.		
11	Plumb bob 50 gms.		
12	Trowel 125 IS : 6013		
13	Stillson wrench 200 & 350 mm.		
14	Screw driver 250 mm.		
15	Wooden mallet small IS : 2022		
16	Cutting pliers 200 IS : 3650		
17	Steel tape.		

**Equipments:-**

<b>S.No.</b>	<b>Item's</b>		<b>Rate in Rs.</b>
1	Surface plate 400 x 400 mm grade.		
2	Scribing block universal 300 mm.		
3	File flat smooth 200 mm.		
4	File half round rough 100 mm.		
5	File square rough 250 mm.		
6	Tap and die set to cut BSP thread.		
7	Ratcher pipe die 15 mm to 32 mm.		
8	Punch letter set.		
9	Punch number set.		
10	Saw plumber 300 mm.		
11	Pipe jointer, lead, universal.		
12	Snip straight 250 mm & Snip bend.		
13	Try square 200 mm.		
14	Inside calliper 150 mm.		
15	Outside calliper 150 mm.		
16	Odd leg calliper 200 mm.		
17	Tenon saw.		
18	Handsaw.		
19	Plier's combination 200 mm.		
20	Chipping knife.		
21	Plumber ladle.		
22	Plumber's metal melting pot 10 kg.		
23	Pipe vice to grip pipes up to 77 mm IS : 2587		
24	Stillson pattern pipe wrenches 450 mm to take pipe upto 52 mm dia IS :4003		
25	Chain pipe wrench 90 mm to 650 mm IS : 4223		
26	Adjustable spanner a 375 IS : 1649		
27	Hand drill 6mm capacity with drill chuck.		

28	Stop tap water 20 mm IS : 781.		
29	Wash basin (16" x 14" x 10") equivalent metric.		
30	Water closet (European type) with down type cistern.		
31	Water closet (Indian type) complete with overhead low down cistern.		
32	Urinal wall type complete with automatic system.		
33	Water meter.		
34	Electric pump 1 HP.		
35	Hydraulic pressure machines for testing leakage in GI pipe fitting etc.		
36	Bench drilling machine with chuck & key upto 15 mm capacity.		
37	Hammer double face		
38	Dormat, Pickel, Spade, Girmale.		
39	Pipe bender (Hydraulic type).		

**Furniture** :-

S.No.	Item's		Rate in Rs.
1	Steel locker's with 8 drawers.		
2	Metal rack 1800 x 1500 x 450 mm.		
3	Desk.		
4	Stool.		
5	Instead of Black board, White board may be purchased.		
6	Steel almirah.		

Member Secretary IMC  
Bhaddu/Billawar

**LIST OF RAW MATERIALS REQUIRED FOR ELECTRICIAN TRADE FOR ITI  
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<b>S.No.</b>	<b>Item's</b>	<b>Rate in Rs.</b>
<b>Tool Kit:-</b>		
1	Rule Wooden 4 fold 60 mm (ISI) mark	
2	Plier insulated 150 mm	
3	Plier side cutting 150 mm	
4	Screw driver 100 mm	
5	Screw driver 150 mm	
6	Electrician connector, screwdriver 100 mm insulated handle thin stem	
7	Heavy duty screw driver 200 mm	
8	Electrician screw driver 250 mm thin stem insulated handle	
9	Punch centre 150 mm x 9 mm	
10	Knife double bladed Electrician	
11	Neon Tester	
12	Rule steel 300 mm	
13	Saw tenon 250 mm	
14	Hammer, cross peen 115 grams with handle	
15	Hammer ball peen 0.75 Kg. With handle	
16	Firmer chisel wood 12 mm	
17	Gimlet 6 mm	
18	Scriber 150 mm x 4mm (Knurled centre position)	
19	Pincer 150mm	
20	Bradwal	
21	Spanner 150 mm adjustable 15 degree	
22	Blow lamp 0.5 litre	
23	Melting pot	
24	Ladle	
25	Chisel cold firmer 25 mm x 200 mm	
26	Chisel 25 mm & 6 mm	
27	Drill Machine hand 0 to 6 mm capacity	
28	Electric drill machine portable 6 mm capacity	
29	Pillar electric drill machine 12 mm capacity	
30	Allen key	
31	Oil can 0.12 litre	
32	Grease gun	
33	Out side micrometer 0 to 25 mm	
34	Bench grinder motorised	
35	Rawl plug tool & bit	
36	Pulley puller	
37	Bearing puller	
38	Hygrometer	
39	Thermometer 0 to 100 deg. Centigrade	
40	Scissors blade 150 mm	
41	Crimping tool 1.5 mm, 2.5 mm	
42	Wire stripper 20 cm	
43	Chisel cold flat 12 mm	
44	Mallet hard wood 0.50 kg.	
45	Hacksaw frame 200 mm, 300 mm adjustable	
46	Pleir flat nose 100 mm	
47	Pleir gas round nose 100 mm	

48	Tweezers 100 mm		
49	Snip straight 150 mm		
50	Spanner D.E. metric standard set		
51	Gauge, wire imperial		
52	File flat 200 mm 2 <sup>nd</sup> cut		
53	File half round 200 mm 2 <sup>nd</sup> cut		
54	File round 200 mm 2 <sup>nd</sup> cut		
55	File flat 250 mm 2 <sup>nd</sup> bastard		
56	File flat 150 rough		
57	File flat 250 mm smooth		
58	Iron, soldering 25 watt, 65 watt, 125 watt		
59	Copper bit soldering iron 0.25 kg		
60	Disoldering gun		
61	Stock and dies conduit		
62	Box Spanner set		
63	Kew hole saw		
64	Fret saw		
<b><u>Equipments:-</u></b>			
1	Multi meter 0 to 1000 M Ohms, 2.5 to 500 volt.		
2	Digital Multi meter ( 3 ½ digits)		
3	AC Voltmeter M.I. ( 0-500 v A.C		
4	DCA meter MC 0-1 A		
5	Am meter MC 0-5 A		
6	Am meter MC 0-15-25 A		
7	AC Ammeter M.I. 0-5 A		
8	AC Ammeter M.I 0-15-25 A		
9	K.W. meter 0-1-3 Kw		
10	Single phase power factor meter		
11	Frequency meter		
12	Tacho meter with stop watch		
13	Potential Transformer		
14	Growler		
15	Tong Tester/Clamp meter 0-100 Amp. AC		
16	Relays- over current, under voltage, etc. 3 volt, 100 Amp.		
17	Rheostat 0-1 Ohm, 5 Amp, 0-10 Ohm, 5Amp, 0-25 Ohm 1 Amp		
18	LCR meter tester		
19	Digital DC power supply 30,0,30. 5 Amp.		
20	Earth resistance tester		
21	Transistor tester & IC tester		
22	Variable auto transformer 0.25 v. 8 Amp.		
23	Cell tester		
24	Watt meter 0-500 V/5 Amp.		
25	Flux meter		

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