

CONTROL ROOM EQUIPMENTS

List of specifications for various types of control room equipments

S. No.	Item Description	Specification No.
1	DTMF control room equipment	IRS : TC 60-93-2007
2	Emergency control room equipment	IRS : TC 61-93 Annex 1

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Sr. Nos. 1, 3, 5, 6, 7, 8, 9, 11, 12, 17, 22, 23

CONTROL ROOM EQUIPMENTS
(IRS: TC 60 - 93 & IRS: TC 61 - 93)

I. ESSENTIAL MACHINERY AND PLANTS REQUIRED FOR PRODUCTION

- 1 Drilling Machine
- 2 Vices
- 3 Grinding Machine
- 4 Electric Blower
- 5 PCB Assembly Zigs
- 6 Coil Winding Machine
- 7 Shearing Machine
- 8 Bending Machine
- 9 Baking Oven
- 10 Spray Painting Machine
- 11 Hacksaw Machine
- 12 Vernier Calliper, Scale, Micrometer, Filter Gauges, Thermometer etc
- 13 Vacuum Impregnation Plant
- 14 Temperature Controlled Soldering Iron
- 15 Regulated Power Supply
- 16 Terminating Load Resistances of different values such as 470 ohms, 1120 ohms, 600 ohms etc. with tolerances of 1%.

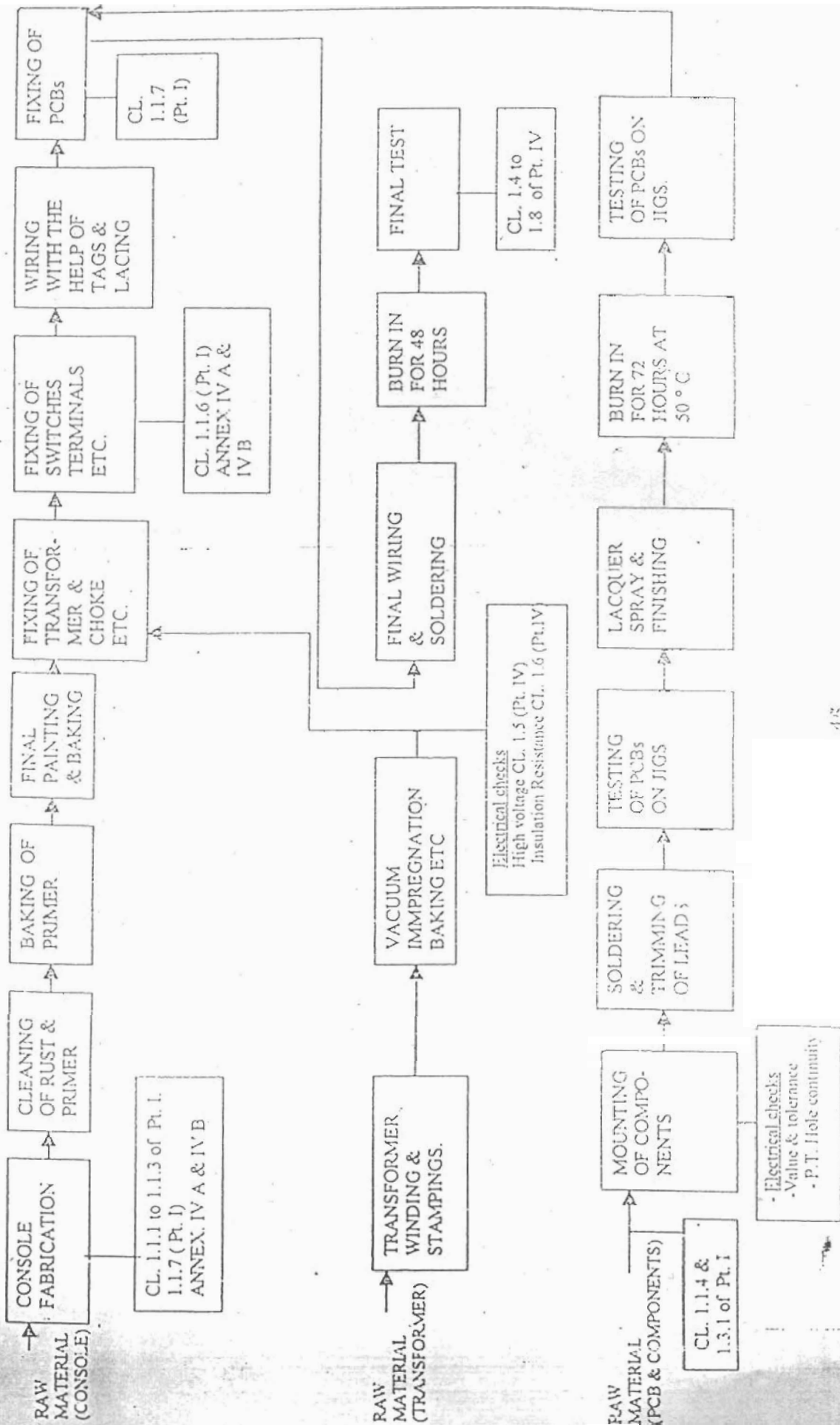
II ESSENTIAL TESTING EQUIPMENTS REQUIRED FOR QUALITY ASSURANCE

- 1 High Voltage Tester
- 2 Insulation Resistance Tester
- 3 Level Meter
- 4 LCR Bridge
- 5 Digital IC Tester
- 6 Oscilloscope
- 7 Handheld Digital Multimeter
- 8 Frequency Counter
- 9 Harmonic Distortion Meter
- 10 Variable Attenuator
- 11 Dial pulse and DTMF tester
- 12 Signal Generator

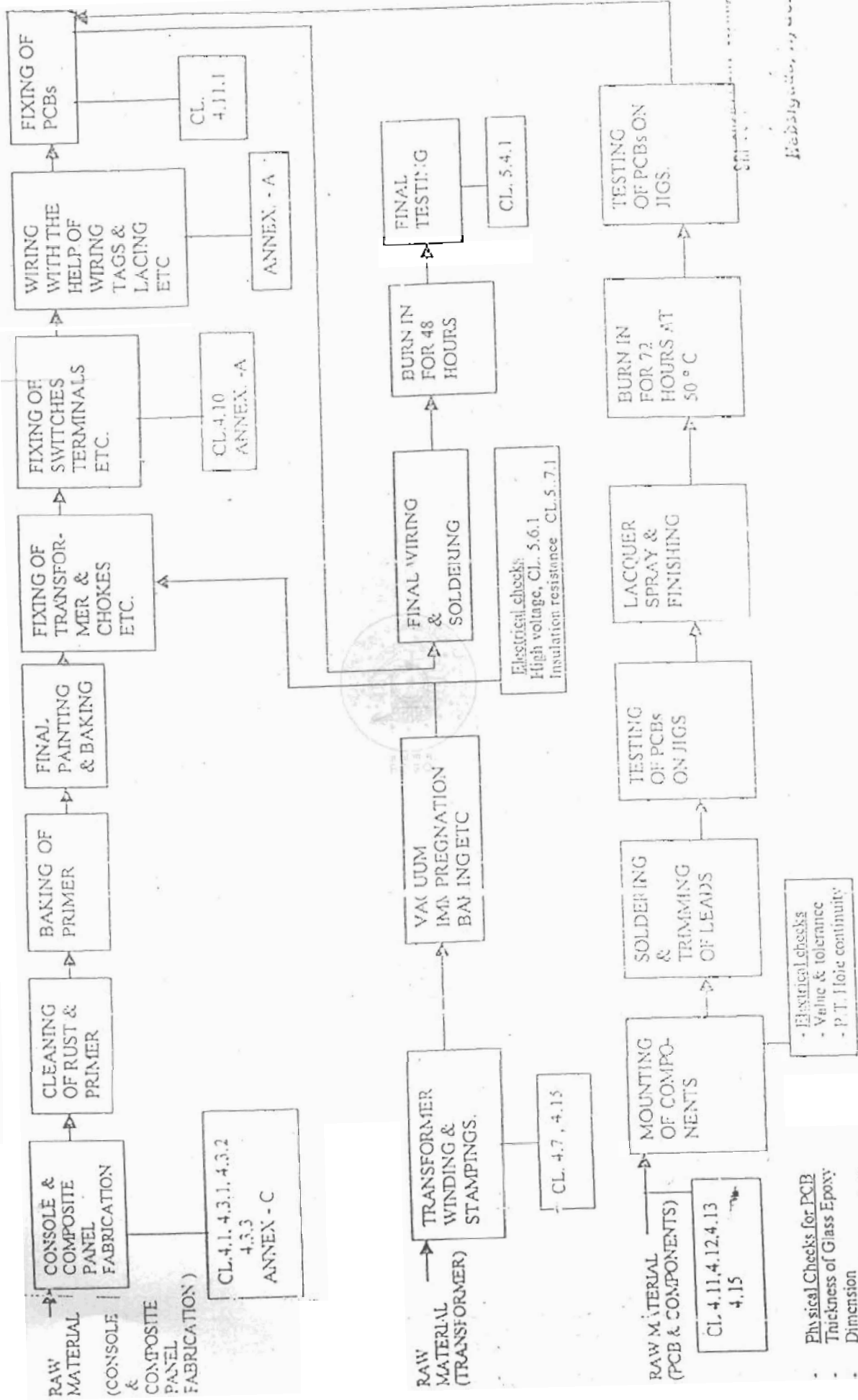
100, Rajawade, 11, 11, 11,
Rajawade, Rajawade Nagar,
Rajawade, Hyderabad-510 007.

QUALITY ASSURANCE FLOW-CHART

4 WIRE/2 WIRE TRAIN TRAFFIC CONTROL EQUIPMENT WITH DUAL TONE MULTIFREQUENCY (DTMF) SIGNALLING (TC 60-93) - CONTROL OFFICE EQUIPMENT



QUALITY ASSURANCE FLOW-CHART EMERGENCY CONTROL ROOM EQUIPMENT (TC: 61-93)



- Physical Checks for PCB
- Thickness of Glass Epoxy
- Dimension
- Thickness of copper cladding
- Minimum clearance between tracks