

566803/2021/0/9 Director/Tele. I/RDSO

Page No. 1 of 7	Effective from से प्रभावी: 01.07.2021	Doc. No.. टी.सी.क्यू. 0035 दस्तावेज संख्या:TCQ 0035	IRS:TC:38/97 आई.आर.एस./ टीसी 38/97	Rev. 2 संशोधन
--------------------	--	--	---------------------------------------	------------------

4 वायर वे स्टेशन कंट्रोल टेलीफोन
4 Wire Way Station Control Telephone



सत्यमेव जयते

Schedule of Technical Requirements (STR)
for
4 Wire Way Station Control Telephone
4 वायर वे स्टेशन कंट्रोल टेलीफोन

स्पेसिफिकेशन संख्या आई.आर.एस./ टीसी /38/97

Specification No. IRS/TC/38/97

दूरसंचार निदेशालय
अनुसंधान अभिकल्प और मानक संगठन
रेलमंत्रालय मानक नगर, लखनऊ - 226011

TELECOM DIRECTORATE
RESEARCH DESIGNS AND STANDARDS ORGANISATION
MINISTRY OF RAILWAYS MANAK NAGAR, LUCKNOW - 226011

566803/2021/O/o Director/Tele-1/RDSO

पृष्ठ Page 2 of 7	Effective from : से प्रभावी: 01.07.2021	Doc. No., टी.सी.क्यू. 0035 दस्तावेज संख्या:TCQ 0035	IRS:TC:38/97 आई.आर.एस./ टीसी 38/97	Rev. 2 संशोधन
4 वायर वे स्टेशन कंट्रोल टेलीफोन 4 Wire Way Station Control Telephone				

DOCUMENT CONTROL SHEET

NAME	ORGANIZATION	FUNCTION	LEVEL
DIRECTOR/ TELECOM-I	RDSO	MEMBER	PREPARE
EXECUTIVE DIRECTOR/ TELECOM-I	RDSO	-	APPROVE

REVISIONS

VERSION	CHAPTER/ ANNEXURE	REVISION	EFFECTIVE MONTH/YEAR
STR FOR 4 WIRE WAY STATION CONTROL TELEPHONE	FIRST ISSUE (TCQ0033)	REVISION-1	01.12.2014
STR FOR 4 WIRE WAY STATION CONTROL TELEPHONE	SECOND ISSUE (TCQ0035)	REVISION-2	01.07.2021

566803/2021/O/o Director/Tele-1/RDSO

पृष्ठ Page 3 of 7	Effective from : से प्रभावी: 01.07.2021	Doc. No., टी.सी.क्यू. 0035 दस्तावेज संख्या:TCQ 0035	IRS:TC:38/97 आई.आर.एस./ टीसी 38/97	Rev. 2 संशोधन
4 वायर वे स्टेशन कंट्रोल टेलीफोन 4 Wire Way Station Control Telephone				

I. SCOPE:

The Schedule of Technical Requirement covers machinery & plant, testing & measuring equipments and quality assurance plan required for manufacturing of following items as per RDSO specifications

S. N.	Description of Item	Specification
1	4 Wire Way Station Control Telephone	IRS/TC/38/97

Vendor shall also comply norms issued by RDSO time to time in this connection and other relevant laws of country.

The STR shall be applicable to all vendors applying for registration.

566803/2021/O/o Director/Tele-1/RDSO

पृष्ठ Page 4 of 7	Effective from : से प्रभावी: 01.07.2021	Doc. No.. टी.सी.क्यू. 0035 दस्तावेज संख्या:TCQ 0035	IRS:TC:38/97 आई.आर.एस./ टीसी 38/97	Rev. 2 संशोधन
4 वायर वे स्टेशन कंट्रोल टेलीफोन 4 Wire Way Station Control Telephone				

II. ESSENTIAL MACHINERY AND PLANTS REQUIRED FOR PRODUCTION:

Note: Plant & Machinery shall be of adequate capacity.

Sr. No.	Requirement of Machinery & Plants		Details of Machinery & Plants available with the Vendor						Calibration Details (As applicable)	
	Description	Qty. Required	Qty. Available	Model	Make	Machine No.	Year of Built	Range/ capacity	Date of Calibration	Due Date of Calibration
1.	Drilling Machine	1 No.								
2.	Grinding Machine	1 No.								
3.	Vices	1 No.								
4.	Electric Blower	1 No.								
5.	The PCB Assembly jigs (In-house/ Outsourced to ISO 9001 Certified vendor).	1 No.								
6.	Temperature controlled soldering iron	1 No.								
7.	Regulated power supply	1 No.								
8.	Test Jigs	1 No.								

566803/2021/O/o Director/Tele-1/RDSO

पृष्ठ Page 5 of 7	Effective from : से प्रभावी: 01.07.2021	Doc. No.. टी.सी.क्यू. 0035 दस्तावेज संख्या:TCQ 0035	IRS:TC:38/97 आई.आर.एस./ टीसी 38/97	Rev. 2 संशोधन
4 वायर वे स्टेशन कंट्रोल टेलीफोन 4 Wire Way Station Control Telephone				

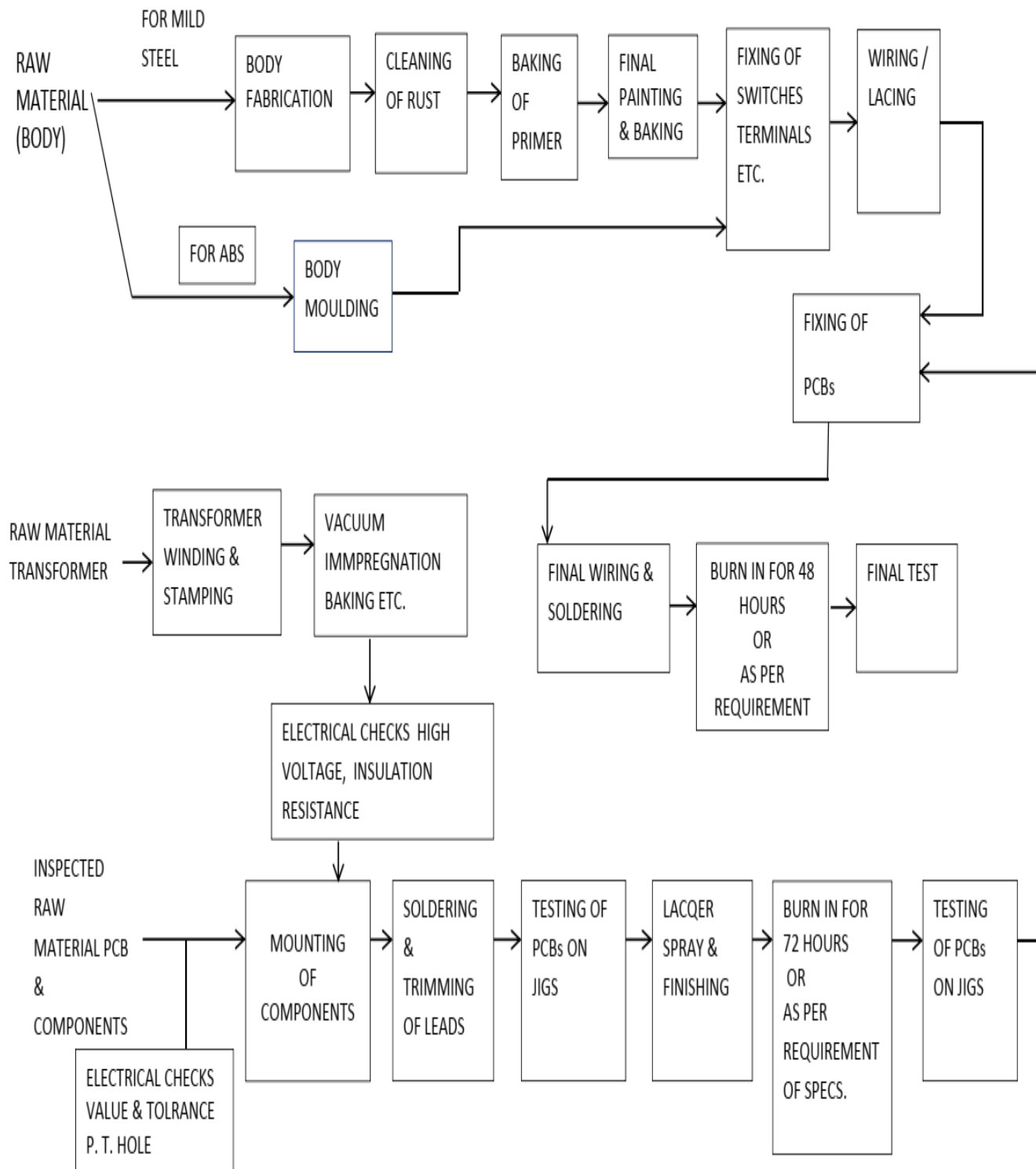
III. Essential Measuring/ Testing Equipments for Quality Control:

Sr. No.	Requirement of Essential Testing Equipments		Details of Testing & Measuring Equipments available with the Vendor						Calibration Details	
	Description	Qty. Required	Qty. Available	Model	Make	Machine No.	Year of Built	Range/ capacity	Date of Calibration	Due Date of Calibration
1.	High Voltage Tester 2KV/AC rms	1 No.								
2.	Megger or Insulation Resistance Tester 500V	1 No.								
3.	Digital Level Meter / Digital Multi Meter with Digital level meter facility	1 No.								
4.	Oscilloscope 10 MHz or better	1 No.								
5.	Digital Multi Meter 3 ^{1/2} digit	1 No.								
6.	Terminating Load Resistances of different values such as 100, 150, 200, 300, 470, 600 ohms & 1120 ohms etc. with tolerances of 1%	-								
7.	LCR Bridges and Meters	1 No.								
8.	Digital IC Tester / IC testing jigs with Computer	1 No.								
9.	Signal Generator or Audio Oscillator	1 No.								
10.	Vernier calipers, Scale, Micro meter, Filter Guages, Thermometer etc.	1 No.								

Note: All the measuring and testing equipment shall have valid calibration report from NABL accredited calibration laboratory/testing house.

पृष्ठ Page 6 of 7	Effective from : से प्रभावी: 01.07.2021	Doc. No., टी.सी.न्यू. 0035 दस्तावेज संख्या: TCQ 0035	IRS:TC:38/97 आई.आर.एस./ टीसी 38/97	Rev. 2 संशोधन
4 वायर वे स्टेशन कंट्रोल टेलीफोन 4 Wire Way Station Control Telephone				

(IV) Process Flow Chart For Manufacturing of Telephone covered under this STR



566803/2021/O/o Director/Tele-1/RDSO

पृष्ठ Page 7 of 7	Effective from : से प्रभावी: 01.07.2021	Doc. No., टी.सी.क्यू. 0035 दस्तावेज संख्या: TCQ 0035	IRS:TC:38/97 आई.आर.एस./ टीसी 38/97	Rev. 2 संशोधन
4 वायर वे स्टेशन कंट्रोल टेलीफोन 4 Wire Way Station Control Telephone				

Note:

1. After every process necessary quality record shall be prepared and maintained.
2. After processes involving inspection/ testing etc., in case of any non-conformance, suitable corrective action shall be taken.
3. This process flow chart is only indicative and firms shall follow detailed process flow chart to ensure quality, showing corrective action in case of non-conformance at each stage.
4. Some of the processes can be outsourced.

UNDERTAKING OF THE FIRM

“I hereby give an undertaking that at any time after approval is accorded, some machinery is found deficient without intimation to RDSO, and then it will be presumed that machinery was not there since beginning and firm will be withdrawn immediately.”

Date:

Signature

Name in capitals & Designation

Place:

Stamp of the firm

Note:

1. Details of Machinery & Plants and Testing Equipments should be furnished by the vendor in complete as per format of STR. Vendor should also furnish the details of the ownership.
2. It should be mandatory to inform the RDSO through Fax (followed by confirmation copy through courier /speed post) as soon as any machinery is removed from the firm's premises (even for repair etc.) RDSO should be informed again, when is brought back and made operational.
