

ISO 9001:2015	Doc No. TCQ 113	Version: 1.0	Date Effective: 01/07/2021
Document Title:	Schedule of Technical Requirement (STR) for 'Electronic L C Gate Telephone System' as per Spec. No. RDSO/SPN/TC/51/2021. Rev.- 1.		



TELECOM DIRECTORATE
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Manak Nagar, Lucknow – 226011

Document No.: TCQ 113. Ver.- 1

Schedule of Technical Requirement (STR)

for

Electronic LC Gate Telephone System

As Per

Specification No. RDSO/SPN/TC/51-2021, Rev.- 1

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I. AMENDMENTS/REVISION HISTORY

Specification No.	Version/ Amendment	Amendment Details	Effective date
RDSO/SPN/TC/51/2011 Rev.-3, Ammdt.-1	0	First issue	07-02-2020
RDSO/SPN/TC/51/2021 Rev.-1	1	Due to reference specification revision	April-2021

II. DOCUMENT DATA SHEET

Title of Document	:	Schedule of Technical Requirement for Electronic LC Gate Telephone System as per RDSO/SPN/TC/51/2021. Rev.-1
Prepared By	:	Shri N.K. Varma Director / Tele -1
Approved By	:	Shri D.K. Singh Executive Director / Telecom-1
Abstract:	This document specifies technical requirement for manufacturing 'Electronic LC Gate Telephone System'	

III. DOCUMENT DATA SHEET

NAME	ORGANISATION	FUNCTION	LEVEL
Shri N. K. Varma	RDSO	Member	Prepare
Shri D. K. Singh	RDSO	Approving Authority	Approve

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1.0 SCOPE:

The Schedule of Technical Requirement (STR) covers machinery & plants, testing & measuring equipments and flow chart for manufacturing of Electronic LC Gate Telephone System Specification No. RDSO/SPN/TC/51-2021, Rev 1.0

Vendor shall also comply norms issued by RDSO time to time in this connection and other relevant laws of the country. This STR shall be applicable to all vendors applying for Registration.

2.0 Essential Test and Measuring instruments required for Testing of the item:

STR Para No.	Name of item	Parameter / Range
1.	High Voltage Tester	2KV/50Hz
2.	Insulating Resistance Tester	500V DC
3.	Oscilloscope	1 MHz or better
4.	Digital Multimeter	3 ^{1/2} Digit or higher with facility to measure audio level in dB
5.	Harmonic Distortion Meter	
6.	Decade Step Attenuator	
7.	DTMF Tester	
8.	Audio Oscillator	
9.	Digital IC tester	
10.	Vernier Calliper, Scale, Micrometer, Thermometer	
11.	Sound Pressure Level Meter (dB meter)	
12.	Signal Generator	Covering Audio Frequency Range
13.	LCR Meter	
14.	Terminating Load Resistance	75 Ω, 100 Ω, 200 Ω, 150 Ω, 300 Ω, 600Ω

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3.0 Essential Machinery & Plant required for manufacturing of the item:

STR Para No.	Name of Item	Detail	Qty.
1.	Drilling Machine	*	1 No.
2.	Bench Vices	*	1 No.
3.	Grinding machine	*	1 No.
4.	PCB Assembly zigs		1 No.
5.	Coil Winding M/C		1 No.
6.	Baking oven		1 No.
7.	Vaccume impregnation Plant	#	1 No.
8.	Temperature Controlled Soldering Iron		1 No.
9.	Regulated DC Power Supply		1 No.
10.	Test Zig		1 No.
11.	Plastic injection Moulding machine for Slave Telephone	@	1 No.
12.	Die/Mould for Slave	@	1 No.
13.	Shearing Machine	*	1 No.
14.	Hacksaw Machine	*	1 No.

Note-1:

* If cabinet fabrication work is outsourced and linked in QAP these items are not required.

@ If moulding work is outsourced and linked in QAP these items are not required.

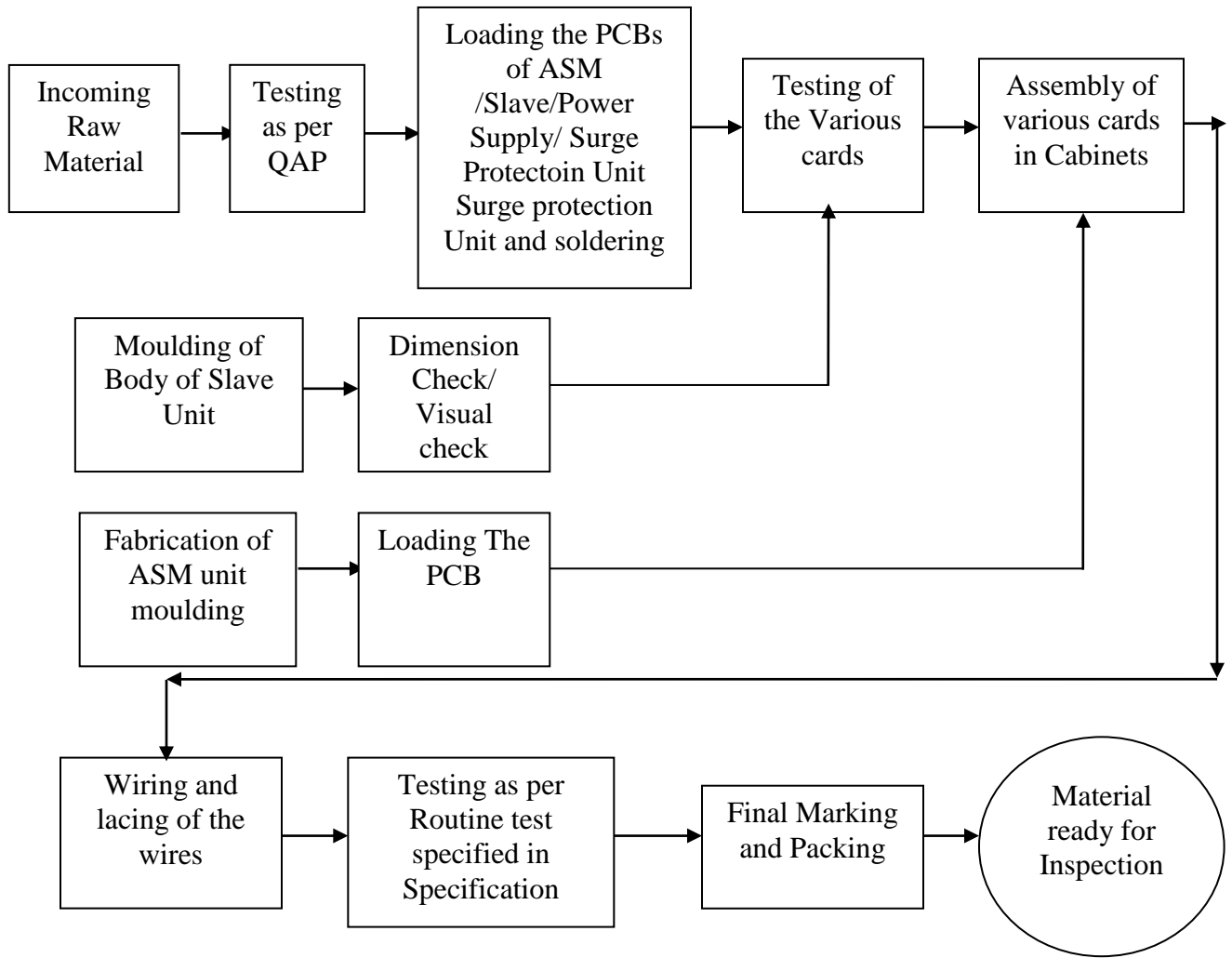
If transformers are being purchased from other agency and linked in QAP these items are not required.

Note-2:

- 1) It should be mandatory to inform the RDSO through Fax /Email (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 it is brought back and made operational.
- 2) Outsourcing if any, should be clearly linked in QAP.

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Flow chart for Manufacturing of Electronic LC Gate Telephone System



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.