

**GOVERNMENT OF INDIA भारत सरकार**  
**MINISTRY OF RAILWAYS रेल मंत्रालय**  
**(RAILWAY BOARD) (रेलवे बोर्ड)**

सं. 2011/Tele/9(2)/1

नई दिल्ली, दिनांक 07/07/2011

**The Executive Director,  
R.D.S.O.,  
New Delhi.**

**Sub: Recommendation of 36<sup>th</sup> Telecom Standards Committee  
meeting held on 12<sup>th</sup> & 13<sup>th</sup> May, 2011 at Bangalore.**

Board's order on various recommendations for formal items from item no. 292(i)-(viii) to 295 and on informal items from 1 to 15 discussed in the meeting are as under:-

**1. FORMAL ITEMS:-**

**1.**

**Item No.292(i)** Deletion of Specification No. IRS: TC 10-73 for "Minimum Performance Requirements for Long-haul Microwave System for 120 Channels on Indian Railway".

**Recommendation of TCSC:** The specification to be continued till next TCSC.

**RAILWAY BOARD'S ORDER : Approved**

**2.**

**Item No.292(ii)** Deletion of Specification No. IRS: TC 13-2000 for " Dehydrator system for Microwave Links".

**Recommendation of TCSC:** The specification to be continued till next TCSC.

**RAILWAY BOARD'S ORDER : Approved**

**3.**

**Item No.292(iii)** Deletion of Specification No. IRS: TC 64-94 for " 2 MB Digital UHF Equipment".

**Recommendation of TCSC:** The specification to be continued till next TCSC.

**RAILWAY BOARD'S ORDER : Approved**

*(Signature)*

4.

**Item No.292(iv)** Deletion of Specification No. IRS: TC 64-94 for “ (34+2) MB 7GHz Digital Microwave Equipment”.

**Recommendation of TCSC:** The specification to be continued till next TCSC.

**RAILWAY BOARD’S ORDER : Approved**

5.

**Item No.292(v)** Deletion of Specification No. IRS: TC 67-94 for “3 M Dia, 7 GHz Microwave Antenna”.

**Recommendation of TCSC:** The specification to be continued till next TCSC.

**RAILWAY BOARD’S ORDER : Approved**

6.

**Item No.292(vi)** Deletion of Specification No. RDSO/SPN/TC/41/2000 for “LC Gate Communication and Monitoring System”.

**Recommendation of TCSC:**36<sup>th</sup> TCSC recommends to drop specification No. RDSO/SPN/TC/41/2000 for “LC Gate Communication and Monitoring System”.

**RAILWAY BOARD’S ORDER : Approved**

7.

**Item No.292(vii)** Deletion of Specification No. RDSO/SPN/TC/42/2001 Rev.1.0 of Digital Duplex Mobile Radio Communication.

**Recommendation of TCSC:** 36<sup>th</sup> TCSC recommends to drop specification No. RDSO/SPN/TC/42/2001 Rev.1.0 of Digital Duplex Mobile Radio Communication.

**RAILWAY BOARD’S ORDER : Approved**

8.

**Item No.292(viii)** Deletion of Specification No. RDSO/SPN/TC/54/2005 Rev.0.0 of functional requirement specification of passenger information system based on GPS.

**Recommendation of TCSC:** 36<sup>th</sup> TCSC recommends to drop specification No. RDSO/SPN/TC/54/2005 Rev.0.0 of functional requirement specification of passenger information system based on GPS.

**RAILWAY BOARD’S ORDER : Approved**

11/01/21

9.

**Item No.293** Adoption of revision 2 to specification of Thermo shrink jointing kit for jointing underground cable (IRS: TC-77/2010, Revision2)

**Recommendation of TCSC:** 36<sup>th</sup> TCSC recommends to adopt the revised. Specification No. IRS: TC-77/2010, Revision 2. Also the committee recommended that RDSO shall consider the following:

- (i) IDC connectors jelly filled for jointing conductors instead of twisting and soldering.
- (ii) Change in the arrangement for armour continuity.

**RAILWAY BOARD'S ORDER : Approved**

10.

**Item No.294** Amendment No. 2.0 to specification No. IRS: TC- 55/2006(Revision 1.0, Amendment 1.1) for armoured optical fibre cable.

**Recommendation of TCSC:** 36<sup>th</sup> TCSC recommends to adopt proposed amendment No. 2.0 to specification No. IRS: TC- 55/2006(Revision 1.0, with Amendment No. 1.1) of Armoured Optical Fibre cable. Western Railway suggestion for marking the running length of cable at 120 degree at the same location so that the same is visible under most circumstances. may be evaluated by RDSO further.

**RAILWAY BOARD'S ORDER : Approved**

11.

**Item No.295** Proposed amendment No. 2 to IRS/TC/68/04 with Amendment 1 for Primary Digital Multiplexing equipment.

**Recommendation of TCSC:** 36<sup>th</sup> TCSC recommends adopting the following as Amendment 2.

- (i) Clause No. 7.7.8: This clause shall be read as “ Number of maintenance portable terminal to be supplied shall be specified by the purchaser. If the same is not specified, one maintenance portable terminal shall be supplied”.
- (ii) Clause No. 14.3.1: This clause shall read as: “ Acceptance test shall be carried out on the randomly selected 20% items of the lot, rounded off to the nearest integral quantity subject to minimum of 1 equipment/card/module”.
- (iii) Clause No. 14.3.3 (New Clause)

**Rejection criteria-**If any equipment of the selected sample fails in any of the Acceptance Test listed vide clause 14.3.2, the entire lot shall be rejected.

TCSC members agreed with the proposed amendment as above.

TCSC members also suggested the following:

1. Information to be furnished by purchaser against different RDSO specification may be compiled and placed on RDSO website for ease of availability and better appreciation by the purchaser.
2. CCE/WR's suggestions regarding extending Auto-Exchange subscriber line without breaking PD Mux chain by means of repeating the connection through immediate 4W E & M patching may be evaluated further by RDSO.

**RAILWAY BOARD'S ORDER : Approved**

**2. INFORMAL ITEMS:-**

1. **Item No.1** Draft Specification No. RDSO/SPN/TC/52/2005, Rev. 0 for scheme for control working using DSL Technology.

**Recommendation of TCSC:** 36<sup>th</sup> TCSC recommends that the draft specification No. RDSO/SPN/TC/52/2005, Rev. 0 for scheme for control working using DSL Technology should be withdrawn.

**RAILWAY BOARD'S ORDER : Approved**

2. **Item No.2** RDSO/SPN/TC/53/2009, Rev.1 for integrated STM-1 & primary Multiplexer.

**Recommendation of TCSC:** 36<sup>th</sup> TCSC recommends that the draft specification No. RDSO/SPN/TC/53/2009, Rev.1 for integrated STM-1 & primary Multiplexer should be withdrawn.

**RAILWAY BOARD'S ORDER : Approved**

3. **Item No.3** RDSO Specification No. RDSO/SPN/TC/80/2008, with Amendment No. 1.0 of 2 Mbps Digital Modem.

**Recommendation of TCSC:** 36<sup>th</sup> TCSC recommends that RDSO Specification No. RDSO/SPN/TC/80/2008, with Amendment No. 1.0 of 2 Mbps Digital Modem may be adopted for standardization and implementation on Indian Railways.

**RAILWAY BOARD'S ORDER : Approved**

4. **Item No.4** RDSO Specification No. RDSO/SPN/TC/81/2008, with Amendment No. 1.0 of 64/128 Kbps Digital Modem.

*2021*

**Recommendation of TCSC:** 36<sup>th</sup> TCSC recommends that. RDSO Specification No. RDSO/SPN/TC/81/2008, with Amendment No. 1.0 of 64/128 Kbps Digital Modem may be adopted for standardization and implementation on Indian Railways.

**RAILWAY BOARD'S ORDER : Approved**

5.

**Item No.5** RDSO Specification No. RDSO/SPN/TC/82/2008, with Amendment No. 1.0 of LAN Extender(n x 64 Kbps)

**Recommendation of TCSC:** 36<sup>th</sup> TCSC recommends that the RDSO Specification No. RDSO/SPN/TC/82/2008, with Amendment No. 1.0 of LAN Extender(n x 64 Kbps) may be adopted for standardization and implementation on Indian Railways.

**RAILWAY BOARD'S ORDER : Approved**

6.

**Item No.6** RDSO Specification No. RDSO/SPN/TC/83/2008 of LAN Switch.

**Recommendation of TCSC:** 36<sup>th</sup> TCSC recommends that the RDSO Specification No. RDSO/SPN/TC/83/2008, of LAN Switch may be adopted for standardization and implementation on Indian Railways incorporating the following suggestions:

- (i) Specification of LAN switch should be more generic.
- (ii) Specification of 8 port LAN switch should also be included as these switches are mostly used in way stations for UTS & FOIS applications as well for field switches in Video Surveillance System.

**RAILWAY BOARD'S ORDER : Approved**

7.

**Item No.7** RDSO Specification No. RDSO/SPN/TC/84/2008 of Router.

**Recommendation of TCSC:** 36<sup>th</sup> TCSC recommends that the RDSO Specification No. RDSO/SPN/TC/84/2008 of Router may be adopted for standardization and implementation on Indian Railways incorporating the following suggestions:

- (i) Specification of Router should be more generic.
- (ii) Optic interfaces may also be included in the specification.

**RAILWAY BOARD'S ORDER : Approved**

8.

**Item No.8** Draft Specification No. RDSO/SPN/TC/85/2010 Rev.2 for suitcase type portable Auto-Acquiring VSAT Terminal.

**Recommendation of TCSC:** Since, Zonal Railways still feel that further options should be explored to reduced the weight, TCSC recommends the same.

*19/21*

**RAILWAY BOARD'S ORDER : Approved**

9.

**Item No.9** Draft Specification No. RDSO/SPN/TC/86/2008 for portable V-SAT Terminal.

**Recommendation of TCSC:** Committee observed that the requirement is for VSAT (non auto acquiring type) & hence considered adequate & draft specification be continued.

**RAILWAY BOARD'S ORDER : Approved**

10.

**Item No.10** Draft Specification No. RDSO/SPN/TC/87/2008 Rev. 0 for Fixed VSAT Terminal.

**Recommendation of TCSC:** Committee felt that the requirement covered in the specification are considered adequate and draft specification be continued. However clause related to UPS shall be removed from the specification.

**RAILWAY BOARD'S ORDER : Approved**

11.

**Item No.11** Mobile Train Radio Communication System(MTRC) Global System for Mobile Communication – Railways (GSM-R)

**Recommendation of TCSC:** 36<sup>th</sup> TCSC recommends that RDSO Specification No. RDSO/SPN/TC/88/2008 of Mobile Train Radio Communication System (MTRC) may be dropped. Issue of updated specification may be considered later on.

**RAILWAY BOARD'S ORDER : Approved**

12.

**Item No.12** Draft Specification No. RDSO/SPN/TC/89/2008 Rev.0 for IP DSLAM and ADSL modem.

**Recommendation of TCSC:** TCSC recommends that draft specification be continued.

**RAILWAY BOARD'S ORDER : Approved**

13.

**Item No.13** Centralized Mailing System

**Recommendation of TCSC:** 36<sup>th</sup> TCSC recommends that RDSO Specification No. RDSO/SPN/TC/90/2010, 2.0 of Centralized Mailing System may be adopted for standardization and implementation on Indian Railways.

**RAILWAY BOARD'S ORDER : Approved**

*Handwritten signature*

14.

**Item No.14** Specification No. RDSO/SPN/TC/91/2009 for "Inter-Station Wireless Backup System".

**Recommendation of TCSC:** 36<sup>th</sup> TCSC recommends to revise the specification to address the following issues highlighted during TCSC.

- (i) The specification may be made for more generic use so that it can be used for Data Link requirement for PRS, UTS & FOIS applications instead for being limited to Inter-Station Wireless Backup system
- (ii) The specification may be improved to provide up to 4xE1 Data link instead of 1xE1 as in existing specification.
- (iii) Details of typical antenna for the equipment may be included in the specification.
- (iv) Typical distance of Data Link with various type of terrain, antenna, tower height may be indicated in the specification for guidance of zonal Railways.

**RAILWAY BOARD'S ORDER : Approved**

15.

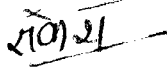
**Item No.15** Integrated Security System consisting of IP Based Video Surveillance System, Access Control System, Personal & Baggage Screening System and Explosive Detection and Disposal System.

**Recommendation of TCSC:** 36<sup>th</sup> TCSC recommends that RDSO Specification No RDSO/SPN/TC/65/2009 for IP Based Video Surveillance System may be adopted incorporating the following suggestions:

- (i) Detailed specification of storage Device should be included in the specification.
- (ii) There should be audio/visual alarm if any of the server and/or storage system has gone defective.

**RAILWAY BOARD'S ORDER : Approved**

**RDSO is advised to take further necessary action in the matter.**

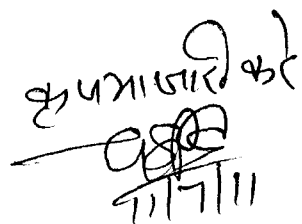
  
 O/C  
 (राकेश रंजन)  
 निदेशक/दूरसंचार

दूरभाष: 011-23388504, 030-44613

फैक्स:011-23304690, 030-44690

ई मेल: [dtele@rb.railnet.gov.in](mailto:dtele@rb.railnet.gov.in)

- Copy to:**
- (i) CSTE's /All Indian Railways.
  - (ii) Director/IRISET
  - (iii) CAO/IRPMU

  
 ११/११/११