



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



No. 2024/Sig/25Conf./91st SSC Mtg

New Delhi, Date: 16.10.2025

PCSTEs

All Indian Railways

Sub: Inspection of Safety-Critical Signaling Items by RDSO.

Ref:(i) Stores dte. ltr 2022/RS(G)/779/8 dtd. 26.09.2025.(copy enclosed).


(ii) RDSO ltr no. STS/C/1st extended 91st SSC Meeting dated 04.09.2025.

(iii) RDSO ltr no. STS/C/1st extended 91st SSC Meeting dated 17.09.2025.

Board approval of identified Safety critical Signaling items inspection by RDSO only is conveyed vide letter under ref-(ii).

In this regard, Stores Directorate's instruction to all concerns for necessary changes in inspection agency as RDSO for these items, is sent herewith for kind information and necessary action please.

DA: as above


(श्याम वर्मा) 16.10.2025

कार्यकारी निदेशक(सिग्नल/विकास)
edsd@rb.railnet.gov.in



भारत सरकार Government of India
रेल मंत्रालय Ministry of Railways
रेलवे बोर्ड (Railway Board)



No. 2022/RS(G)/779/8

Dated: 26.09.2025

The General Managers, All Indian Railways/PUs, NF(C), CORE
 DG, RDSO/Lucknow
 PCAO, PLW/Patiala, RWP/ Bela
 CAO, COFMOW

Sub.: Inspection of Safety- Critical Signalling Items by RDSO: Exclusion from TPI policy.

Railway Board has decided that the inspection of the 28 Safety Critical Signalling Items (enclosed as Annexure-A) shall be conducted by RDSO only, irrespective of the quantity/ value of POs of these items placed by Railway Units.

2. In view of the above, inspection of the aforesaid 28 Safety Critical Signalling items will be outside the purview of TPI policy issued by the Railway Board.
3. CRIS is requested to take necessary action for accommodating these changes.
4. This issues with the approval of Railway Board (MI).

NATARAJAN Digitally signed by
SRINIVASAN NATARAJAN SRINIVASAN
 Date: 2025.09.26
 17:37:23 +05'30'

Encl: As above.

(S.Natarajan)
 Director Railway Stores (IC)
 Railway Board
 Email- drsic@rb.railnet.gov.in
 Tele- 011-23047518

LIST FOR DISTRIBUTION

Directors of all CTIs,
 CMDs /MDs of all Railway PSUs/ autonomous bodies/ societies,
 PCMMs, PCEs, PCMEs, PCEEs, PCSTEs, All Indian Railways & PUs, COFMOW,
 CORE, RWP/Bela
 ED (Stores), RDSO, Lucknow
 Chief Commissioner, Railway Safety, Lucknow
 Zonal Railway Training Institute, Sukadia Circle, Udaipur

Copy to:

The Genl. Secy., AIRF, Room No. 248, & NFIR Room No. 256-C, Rail Bhavan
The Secy. Genl., IRPOF, Room No. 268, FROA, Room No. 256-D & AIRPOA, Room
No. 256-D Rail Bhavan.

Copy to:

PSOs/Sr. PPSs / PPSs / PSs to :

EDPG/MR, EDPG/MoSR(R), JDPG/MoSR (R)

CRB&CEO, M(TRS), M(Infra), M(O&BD), M(F), Secretary/RB, DG (RHS), DG (RPF),
DG(HR), DG(Safety)

All AMs, PEDs & Executive Directors of Railway Board.

ANNEXURE-"A"

List of items for mandatory RDSO inspection as per decision of 1st extended 91st SSC.

S.N as per 1 st exten ded 91 st SSC)	ITEM ID	SUB ITEM ID	SUB ITEM NAME	Specification
1	Electronic Interlocking			
	3100284	3100284001	Electronic Interlocking	<u>RDSO/SPN/192/2019</u> Ver.2.0 (Or latest)
		3100284002	Electronic Interlocking for big yards	<u>RDSO/SPN/203/2011</u> (Or latest)
2	LED Signal Lighting Units			
	3100194	3100194001	LED SIGNAL LAMPS : LED Signal Lamps For Subsidiary Colour Light Signals - Route, Shunt & Calling-On For Railway Signalling	<u>RDSO/SPN/153/2023</u> Rev 5.0 (Or latest)
		3100194002	LED SIGNAL LAMPS : LED Signal Lamps For Main Colour Light Signals (Integrated) For Railway Signalling	<u>RDSO/SPN/199/2025 Rev 1.2 with Amendment 1</u> (Or latest)
		3100194003	LED SIGNAL LAMPS : LED Signal Lamps for Use in Tunnels in Metro Railway, Kolkata For Railway Signalling	<u>RDSO/SPN/153/2023</u> Rev 5.0 (Or latest)
3	Electric Point machine			
	3100088	3100088001	Electric Point Machine (Non-Trailable Type) : 143 mm throw as per Drg No. RDSO/S-10800	<u>IRS S 24- 2025 REV 3.0</u> (Or latest)
		3100088002	Electric Point Machine (Non-Trailable Type) : 220 mm throw and Clamp point Lock 60kg TWS As per Drg. No. RDSO/S-11000 and RDSO/S-3395	<u>IRS S 24- 2025 REV 3.0</u> (Or latest)
		3100088003	Electric Point Machine (Non-Trailable Type) with IP 67 Protection: 143 mm throw as per Drg No. RDSO/S-10800	<u>IRS S 24- 2025 REV 3.0</u> (Or latest)
		3100088004	Electric Point Machine (Non-Trailable Type) with IP 67 protection :220 mm throw and Clamp point Lock 60kg TWS As per Drg. No. RDSO/S-11000 and RDSO/S-3395	<u>IRS S 24- 2025 REV 3.0</u> (Or latest)
4	Point Motor			

	3100009	3100009001	Point Motors For Electric Point Machine With 160V AC immunity	<u>IRS S37-2022 VER 2</u> (Or latest)
		3100009002	Motor For Electric Point Machine with 400V AC Immunity	<u>IRS S37-2022 VER 2</u> (Or latest)
		3100009003	Motor For Electric Point Machine with 160V AC Immunity with IP 67 Protection	<u>IRS S37-2022 VER 2</u> (Or latest)
		3100009004	Motor For Electric Point Machine with 400V AC immunity with IP 67 Protection	<u>IRS S37-2022 VER 2</u> (Or latest)
5	Axle Counters			
	3100268	3100268001	Single Section Digital Axle Counter	<u>RDSO/SPN/177/2012 (Ver.3)</u> (Or latest)
		3100268002	High Availability Single Section Digital Axle Counter	<u>RDSO/SPN/177/2012 (Ver.3)</u> (Or latest)
		3100268003	Multi Section Digital Axle Counter	<u>RDSO/SPN/176/2013 Ver.-3</u> (Or latest)
	-	(Item decontrolled)	Audio Frequency Track Circuit Note: Item is decontrolled but inspection shall be taken up by RDSO.	<u>RDSO/SPN/146/2001</u> (Or latest)
6	(a) Relays (Metal to Carbon)			
	3100385	3100385001	RELAYS -- Miniature, Plug-in type, Tractive Armature, M to C, Universal AC lamp proving relay, Style QECX, 4F-4B Contact, for 110 V AC LED Signal Lamp Code ABDHK	<u>BRS:941A, STS/E/RELAYS/AC LIT LED SIGNAL/09-2002 Amdt1, IRS S-23 & 34</u> (Or latest)
		3100385018	RELAYS - Miniature, Plug-in Type, M to C, DC Neutral Line, Non AC Immunised Relay, Style QN1, 24 V DC, 8F-8B/12F-4B Contact, Code ABCDF/ABCDE	<u>BRS:930 ; IRS S 34 ; IRS S 23</u> (Or latest)
		3100385019	RELAYS - Miniature, Plug-in Type, M to C, DC Neutral Line AC Immunized Relay, Style QNA1, 24 V DC, 8F-8B/12F-4B Contact, Code ABDGH/ABDFH	<u>BRS:931A ; IRS S 34 ; IRS S 23 ; IRS S 60-78</u> (Or latest)
		3100385020	RELAYS - Miniature, Plug in Type, M to C, DC Neutral, Line rela, Style QN1 50V, 8F-8B/12F-4B Contact, Code ABCEF/ABDEF	<u>IRS S 23-88, IRS S 34-68, BRS 930</u> (Or latest)
		3100385002	RELAYS - Miniature, Plug in Type, M to C, DC Neutral, Track Relay, Non ACI, Style QT2, 4 Ohm, 2F-1B Contact, Code EHJKX	<u>BRS: 938A; IRS S 34 ; IRS S 23</u> (Or latest)

	3100385003	RELAYS -Miniature, Plug in Type, M to C, DC Neutral , Track Relay, Non ACI, Style QT2, 9 Ohm, 2F-2B Contact, Code DEFJX	<u>BRS: 938A; IRS S 34 ;</u> <u>IRS S 23 (Or latest)</u>
	3100385004	RELAYS - Miniature, Plug in Type, M to C, DC Neutral , Track Relay, ACI, Style QTA2, 9 Ohm, 2F-1B Contact, Code FGKX	<u>BRS:939A & 966(Appx F2) & IRS:S-23,S34 & 60</u> <u>(Or latest)</u>
	3100385005	RELAYS - Miniature, Plug in Type, M to C, DC Neutral , Line Relay QSPA1, 24V DC, Slow to Pick up AC Immunized, 12F-4B/8F-4B Contact, Code ABDEJ	<u>BRS:933A ; IRS S 34 ;</u> <u>IRS S 23 ;IRS S 60-78 (Or latest)</u>
	3100385006	RELAYS - Miniature, Plug in Type, M to C, Tractive Armature, AC Immunised, DC Biased Line Relay, Style QBA1, 24 V DC, 8F-8B Contact, Code ACDEH	<u>BRS:932A; IRS S 34 ;</u> <u>IRS S 23 ;IRS S 60-78 (Or latest)</u>
	3100385007	RELAYS - Miniature, Plug in Type, M to C, Tractive Armature, AC Immunized, DC Biased Contactor Relay, Style QBCA1,2HF-4B Contact, 24 V DC, Code BCEJK	<u>BRS:943; IRS S 34 ; IRS S 23 ;IRS S 60-78 (Or latest)</u>
	3100385008	RELAYS - Miniature, Plug in Type, M to C, DC Neutral, Line Relay, 1000 Ohm, Non ACI, Style QS-3, 4F-4B Contact, 12 V DC, Code CDEKX	<u>BRS:930; IRS S 34 ; IRS S 23 (Or latest)</u>
	3100385009	RELAYS - Miniature, Plug in Type, M to C, Thermal Time Element Relay, Style QCJ1, 2F-1B Contact, 24 V DC, Code AFGHK	<u>BRS:937A; IRS S 34 ; IRS S 23 (Or latest)</u>
	3100385010	RELAYS - Miniature, Plug in Type, M to C, Twin, DC Neutral, Line relay, NON ACI, Style QNN1, 24 V DC, 6F-2B & 6F-2B /4F-4B & 4F-4B Contact, Code ACDEK/ACEHJ	<u>BRS:960; IRS S 34 ; IRS S 23 (Or latest)</u>
	3100385011	RELAYS - Miniature, Plug in Type, M to C, Twin, DC Neutral, Line relay ACI, Style QNNA1, 24 V DC, 6F-2B & 6F-2B /4F-4B & 4F-4B Contact, Code CDEHX/ACDHJ	<u>BRS:960; IRS S 34 ; IRS S 23 ;IRS S 60-78 (Or latest)</u>
	3100385012	RELAYS - Miniature, Plug in type, M to C, DC Neutral Line Relay, 24V DC, 1000 Ohm , NON ACI Style- QN1K, 6F-6B/4F-4B Contact, Code BDEKX/BDEKX	<u>BRS:930,</u> <u>STs/E/Relays/UEA/PI dtd 30.05.97 Annex I & IRS:S-23,34 (Or latest)</u>
	3100385013	RELAYS - Miniature, Plug-in type, M to C, DC Neutral Line Relay, 24V DC 1000 Ohm , ACI Style- QNA1K, 6F-6B/4F-4B Contact, Code CDEKY/CDEKY	<u>BRS:931A &</u> <u>STs/E/Relays/UEA/PI dtd 30.05.97 Annex II &</u> <u>IRS:S-23,34&60 (Or latest)</u>

	3100385014	RELAYS - Miniature, Plug in Type, M to C, AC Immunized, DC Biased Track Relay, 2F-2B Contact, Style QBAT-9ohm, Code ABEJX	<u>RDSO/SPN/84 ver 2 ; IRS S 34 ; IRS S 23 ;IRS S 60-78 (Or latest)</u>
	3100385015	3100385015, RELAYS - Miniature, Plug in Type, M to C, Tractive Armature, NON ACI, DC Biased Line Relay, Style QB3, 12 V DC, 4F-2B Contact, Code ABFGX	<u>PTJ/QB3,STS/E/Relays/P odanur (PI) dtd 11/03 & 15/05/91&IRS:S23,34&60 (Or latest)</u>
	3100385016	RELAYS -Miniature, Plug-in Type, M to C, DC Neutral Line Magnetically Latched Relay, Style QL1, 24 V DC, 11F-4B Contact, Code ABDEG	<u>BRS:935A ; IRS S 34 ; IRS S 23 (Or latest)</u>
	3100385017	RELAYS - Miniature, Plug in Type, M to C, DC Neutral , Line Relay, Style QSRA1, 24V DC, Slow to Release, AC Immunized, 8F-4B Contact, Code ADEFJ	<u>BRS:934A ; IRS S 34 ; IRS S 23 ;IRS S 60-78 (Or latest)</u>
	3100385021	RELAYS - Miniature, Plug in Type, M to C, Twin, DC Neutral, Line relay, NON ACI Style QNN1 50V, 6F-2B & 6F-2B /4F-4B & 4F-4B Contact, Code CDEFK/CFGHJ	<u>IRS S 23-88, IRS S 34-68, BRS 960 (Or latest)</u>
	3100385022	Miniature, Plug in type, M to C, DC Neutral Line Relay, 24V DC, 1000 , NON ACI Style- QN1K, 8F-8B/12F-4B Contact, Code ABCDF/ABCDE	<u>BRS:930, STs/E/Relays/UEA/PI dtd 30.05.97 Annex I & IRS:S-23,34 (Or latest)</u>
(b) Relays (Metal to Metal)			
3100437	3100437001	Relays -DC Neutral Line Relay, ACI, 60 V DC (Metal to Metal Contact)	<u>IRS:S-46 with Amdt.1 ; firm?s specn , IRS S 23-88 ; IRS S 34-68, IRS S 60-78 (Or latest)</u>
	3100437003	Relays -DC Neutral Line Relay, Non ACI, 24V/60 V DC (Metal to Metal Contact)	<u>IRS:S-46 with Amdt.1 ; firm?s specn , IRS S 23-88 ; IRS S 34-68 (Or latest)</u>
	3100437004	Relays : Special Type, WKR2 (Metal to Metal)	<u>IRS:S-46 with Amdt.1 ; firm?s specn , IRS S 23-88 ; IRS S 34-68 (Or latest)</u>
	3100437005	Relays - Special Type, Double wound DC Neutral Line Relay (Metal to Metal)	<u>IRS:S-46 with Amdt.1 ; firm?s specn , IRS S 23-88 ; IRS S 34-68 (Or latest)</u>
	3100437007	Relays - Mech. Interlocked Relay, 24V/60V (Metal to Metal)	<u>IRS:S-46 with Amdt.1 ; firm?s specn , IRS S 23-88 ; IRS S 34-68 (Or latest)</u>

		3100437008	Relay - 110V AC LED ECR for LED Signal Lamp : Metal to Metal	<u>IRS:S-46 : Amdt.1 : STS/E/Relays/AC Lit LED Signal/09-2002 Amdt.- 1</u> (Or latest)
		3100437009	RELAYS : Point contactor unit	<u>IRS:S-46 : Amdt.1 : Firm?s Spec</u> (Or latest)
		3100437010	Relays-DC Neutral Line Relay, ACI, 24 V DC (Metal to Metal contact	<u>IRS:S-46 : Amdt.1 : Firm?s Spec</u> (Or latest)
(c) Other Relays:				
	3100066	3100066001	Fail Safe Electronic Time Delay Device For Railway Signalling : Working Voltage 24V DC with time delay of 10/20/30/60/120 Sec	<u>IRS:S-61/2000</u> (Or latest)
		3100066002	Fail Safe Electronic Time Delay Device For Railway Signalling : Working Voltage 60V DC with time delay of 10/20/30/60/120 Sec	<u>IRS:S-61/2000</u> (Or latest)
	3100057	3100057001	Relays 3-Position DC Polarized, 3 PPR, 77 Ohm (Metal to Metal)	<u>IRS:S-31/80 (Amd.1)</u> (Or latest)
	3100011	3100011001	Relay Contacts - SIG- (For Q series plug-in type relays only) Note: Inspection only for one year.	<u>IRS:S-67/85</u> (Or latest)
	3100067	3100067001	Fail- safe electronic flasher device for railway signalling	<u>RDSO/SPN/173/2002 (Amdt-2)</u> (Or latest)
7	KLCR			
	3100230	3100230001	Key Lock Checking Relay with D.C. Neutral Relay, (A.C. Immunised/ Non A.C Immunised) for Railway Signaling Purposes	<u>RDSO/SPN/219/2016 Ver 1.0 with Amendment-1</u> (Or latest)
8	Earth Leakage Detector			
	3100010	3100010001	Earth Leakage Detection and Earth Fault Localization System LEVEL 1	<u>RDSO/SPN/256/2025 Version: 2.0</u> (Or latest)
		3100010002	Earth Leakage Detection and Earth Fault Localization System LEVEL 2	<u>RDSO/SPN/256/2025 Version: 2.0</u> (Or latest)
		3100010003	Earth Leakage Detection and Earth Fault Localization System LEVEL 3	<u>RDSO/SPN/256/2025 Version: 2.0</u> (Or latest)
9	Fuses, ARA Terminal, Fuse block			
	3100092	3100092001	Non Deteriorating Type of Low Voltage Electric Fuses For Railway Signalling	<u>IRS:S-78/92</u> (Or latest)
	3100095	3100095001	120/160/200 Way TAG Blocks For Signalling Installations	<u>IRS:S-77/2006 (Rev.1)</u> (Or latest)
	3100097	3100097001	ARA Terminal Blocks And Fuse Blocks- Made of PBT/Polycarbonate	<u>IRS: S-75/2006 (Rev.2)</u> (Or latest)

		3100097003	Modular Terminal Blocks, Fuse Terminal Blocks & Miniature fuse link of international standard for Railway signaling	<u>RDSO/SPN/189/2004</u> <u>Ver. 3.0</u> (Or latest)
10	Fuse auto changeover system			
	3100044	3100044	Fuse Auto Change Over System for Railway Signalling (Type-I/II System)	<u>RDSO/SPN/209/2012</u> <u>Rev.2.0</u> (Or latest)
11	Terminal blocks , Tag blocks (Covered in Sr 9)			
12	Maintenance free earth materials			
	3100250	3100250001	Code of practice for earthing and bonding system for signaling equipment	<u>RDSO/SPN/197, Ver.1.0</u> (Or latest)
13	Cables			
	3100053	3100053001	PVC Insulated Armoured, Unscreened Underground Power Cable	<u>IRS:S-63/2014(Rev.4.0)</u> & <u>IS:1554 (Part-1)</u> (Or latest)
	3100050	3100050001	PVC Insulated Railway Signalling Indoor Single Core Cable	<u>IRS:S-76/89 (Amd. 3)</u> (Or latest)
		3100050002	PVC Insulated Railway Signalling Indoor Multi Core Cable	<u>IRS:S-76/89 (Amd. 3)</u> (Or latest)
	3100054	3100054001	PVC Insulated Armoured, Unscreened, Underground Railway Signaling Cable	<u>IRS:S-63/2014(Rev.4.0)</u> (Or latest)
	3100047	3100047001	Underground Railway Jelly Filled Telecom Quad Cables For Signaling And Telecom, Images: (0.9 mm quad),	<u>IRS:TC 30/2005 (Ver.-1)</u> (Amd. 1 to 5) (Or latest)
		3100047002	1.4 mm dia Copper Conductor 4/6 QUAD Cable	<u>RDSO/SPN/TC/72/2007</u> (Rev.0) (Amdt.1 & 2) (Or latest)
	3100332	3100332001	Thermo Shrink Jointing Kit For Jointing Underground Quad Cable (0.9 mm & 1.4 mm Conductor Dia.)	<u>IRS: TC 77/2012 (Rev.3.0)</u> with (Amdt.-1 to 3) (Or latest)
	3100187		24/48 Fibre Armoured Optical Fibre Cable	<u>RDSO/SPN / TC/110/2020</u> Rev.-0.0 (Or latest)
14	Electric lifting barriers			
	3100106	3100106001	Electric Lifting Barrier with HG	<u>RDSO/SPN/208/2012</u> (Or latest)
		3100106002	Electric Lifting Barrier without HG	<u>RDSO/SPN/208/2012</u> (Or latest)
		(Item decontrolled)	Domino Type Control Panel Note: Item is decontrolled but inspection shall be taken up by	<u>RDSO/SPN/186/2004 Rev 2.0</u> (Or latest)

			RDSO.	
15	Power supply systems, their cards and other sub systems			
	3100313	3100313001	Battery Charger For Railway S&T Installations : Upto 20 Amp	<u>IRS:S-86/2000(Amd. 4)</u> (Or latest)
		3100313002	Battery Charger For Railway S&T Installations : 21 to 50 Amp	<u>IRS:S-86/2000(Amd. 4)</u> (Or latest)
		3100313003	Battery Charger For Railway S&T Installations : Upto 50 Amp	<u>IRS:S-86/2000(Amd. 4)</u> (Or latest)
		3100313004	Battery Charger For Railway S&T Installations : 51 to 100 Amp	<u>IRS:S-86/2000(Amd. 4)</u> (Or latest)
		3100313005	Battery Charger For Railway S&T Installations : Up to 80 Amp	<u>IRS:S-86/2000(Amd. 4)</u> (Or latest)
		3100313006	Track Feed Battery Charger	<u>IRS: S-89/2013 Ver.1.0</u> (Or latest)
	3100065	3100065001	SMPS Based Integrated Power Supply (IPS)	<u>RDSO/SPN/165/2023</u> <u>version 4.0 Amendment</u> <u>1.0 (Or latest)</u>
	-	(Item decontrolled)	Converter -DC-DC Note: Item is decontrolled but inspection shall be taken up by RDSO.	<u>RDSO/SPN/165/2023</u> <u>version 4.0 Amendment</u> <u>1.0 (Or latest)</u>
	-	(Item decontrolled)	Inverter - Sine Wave Note: Item is decontrolled but inspection shall be taken up by RDSO.	<u>RDSO/SPN/165/2023</u> <u>version 4.0 Amendment</u> <u>1.0 (Or latest)</u>
	-	(Item decontrolled)	Transformer - 230/110V Note: Item is decontrolled but inspection shall be taken up by RDSO.	<u>RDSO/SPN/165/2023</u> <u>version 4.0 Amendment</u> <u>1.0 (Or latest)</u>
16	Rechargeable batteries, battery chargers			
	3100158	3100158001	Low Maintenance Lead Acid Stationary Secondary Cells For S&T Installations : 80 AH	<u>IRS:S-88/2004 (Or latest)</u>
		3100158002	Low Maintenance Lead Acid Stationary Secondary Cells For S&T Installations : 200 AH	<u>IRS:S-88/2004 (Or latest)</u>
		3100158003	Low Maintenance Lead Acid Stationary Secondary Cells For S&T Installations : 500 AH	<u>IRS:S-88/2004 (Or latest)</u>
		3100158005	Low Maintenance Lead Acid Stationary Secondary Cells For S&T Installations : 40 AH	<u>IRS:S-88/2004 (Or latest)</u>

		3100158006	Low Maintenance Lead Acid Stationary Secondary Cells For S&T Installations : 120 AH	<u>IRS:S-88/2004</u> (Or latest)
		3100158007	Low Maintenance Lead Acid Stationary Secondary Cells For S&T Installations : 300 AH	<u>IRS:S-88/2004</u> (Or latest)
		3100158008	Low Maintenance Lead Acid Stationary Secondary Cells For S&T Installations : 400 AH	<u>IRS:S-88/2004</u> (Or latest)
		3100158004	Valve Regulated (Sealed) Lead Acid Stationary Battery For Railway S&T Installations: 40 AH	<u>IRS:S-93/96(A) (Amd. 1)</u> (Or latest)
		3100158009	Valve Regulated (Sealed) Lead Acid Stationary Battery For Railway S&T Installations:80AH	<u>IRS:S-93/96(A) (Amd. 1)</u> (Or latest)
		3100158010	Valve Regulated (Sealed) Lead Acid Stationary Battery For Railway S&T Installations:120AH	<u>IRS:S-93/96(A) (Amd. 1)</u> (Or latest)
		3100158011	Valve Regulated (Sealed) Lead Acid Stationary Battery For Railway S&T Installations:200 AH	<u>IRS:S-93/96(A) (Amd. 1)</u> (Or latest)
		3100158012	Valve Regulated (Sealed) Lead Acid Stationary Battery For Railway S&T Installations: 300 AH	<u>IRS:S-93/96(A) (Amd. 1)</u> (Or latest)
		3100158013	Valve Regulated (Sealed) Lead Acid Stationary Battery For Railway S&T Installations: 400 AH	<u>IRS:S-93/96(A) (Amd. 1)</u> (Or latest)
		3100158014	Valve Regulated (Sealed) Lead Acid Stationary Battery For Railway S&T Installations: 500 AH	<u>IRS:S-93/96(A) (Amd. 1)</u> (Or latest)
17	Automatic fire detection and alarm systems			
	3100219	3100219001	Automatic Fire Detection & Alarm System for Signalling installations (AFDAS)	<u>RDSO/SPN/217/2025 Ver.3.1</u> (Or latest)
18	BPAC using UFSBI			
	3100006	3100006002	SSBPAC (DIGITAL) For Double Line and Single Line	<u>RDSO/SPN/175/2005 Ver-1</u> (Or latest)
		3100006003	Block Proving by Axle Counter (BPAC) using UFSBI (For double line and single Line)	<u>IRS:S-105/2012(Ver.0)</u> (Or latest)
19	UFSBI			
	3100245	3100245001	Universal Fail safe Block Interface	<u>IRS: S-104/ 2012 Ver.0</u> (Or latest)
20	KAVACH			

	3100234	3100234001	Stationary KAVACH	<u>RDSO/SPN/196/2020</u> <u>Version 4.0 (Or latest)</u>
		3100234002	Remote Interface Unit	<u>RDSO/SPN/196/2020</u> <u>Version 4.0(Or latest)</u>
		3100234003	Onboard KAVACH	<u>RDSO/SPN/196/2020</u> <u>Version 4.0 (Or latest)</u>
21	DATALOGGER			
	3100237	3100237001	Data logger system for Railway S&T Installations	<u>IRS:S-99/2006 (Amdt-3)</u> (Or latest)
22	Advance auxilliary warning system (AAWS)			
	3100260	3100260001	Advanced Auxiliary Warning System (AAWS)	<u>RDSO/SPN/213/2014</u> <u>Ver.1.0 (Or latest)</u>
23	Block Instruments			
	3100007	3100007001	Double Line Block Instrument	<u>IRS:S 22/2016 Ver 1.0 (Or latest)</u>
	3100148	3100148002	Single Line Tokenless Block Instrument Handle Type	<u>IRS: S-98/2001 (Amd.3)</u> (Or latest)
		3100148003	Push Button TLBI with UFSBI	<u>IRS: S-32/66 ; IRS S: 104/2012 Ver 0 (Or latest)</u>
	3100155	3100155001	Block Bell Equipment Used In 25KV AC Electrified Area	<u>IRS TC 44/88 part 1, IRS TC 44/88 part 2, IRS TC 44/88 part 3 (Or latest)</u>
		3100155002	DTMF Based Block Bell And Telephone Equipment	<u>RDSO/SPN/191/2005 (Ver.0) (Or latest)</u>
	3100008	3100008001	Filter Unit for Use in Conjunction With Block Instrument In 25kv, 50 Hz, Ac Traction Areas	<u>IRS:S-68/89 (Or latest)</u>
		(Item decontrolled)	Single line Ball Token/ Tablet Token Block Instrument. Note: Item is decontrolled but inspection shall be taken up by RDSO.	RDSO/SPN/114/1991
24	Track feed resistance and choke			
	3100069	3100069001	Choke Coil for single rail track circuits on 25 KV 50 Hz AC electrified sections	<u>IRS: S-65/83 (Amdt 3)</u> (Or latest)
	3100070	3100070001	Track Feed Resistance (Porcelain Base, Phenolic, Moulding Base) 7.5 Ohm, 15 Ohm, 30 Ohm	SPN <u>Not Available</u> , Drw: <u>SA-20161- 66/M (Or latest)</u>
25	Electric Key Transmitter			
	3100170	3100170001	Electric Key Transmitter	<u>IRS:S-21/2001 (Or latest)</u>
26	E - type lock			
		(Item decontrolled)	E - type lock Note: Item is decontrolled but	IRS : S 30-64

			inspection shall be taken up by RDSO.	
27	Failsafe electronic timer, Flasher device (Covered in Relays at Sr 6)			
28	FN Mux			
	3100583	3100583	Failsafe Network Multiplexer (FNmux)	<u>RDSO/SPN/211/2022</u> <u>Version: 1.0 (Or latest)</u>