

**List of items having Less than Five (5) Vendors (As on 01.11.2020)**

<b>SN</b>	<b>DIRECTORATE</b>	<b>COUNT OF ITEMS</b>
1	Carriage Directorate	15
2	Electrical Loco Directorate	15
3	Metallurgical & Chemical Directorate	11
4	Motive Power Directorate	26
5	Power Supply and EMU	2
6	Quality Assurance ( Singal &Tele )	28
7	Quality Assurance Civil	3
8	Quality Assurance Electrical	36
9	Quality Assurance Mechanical	11
10	Signal Directorate	13
11	Telecommunication Directorate	7
12	Track Design 2	4
13	Track Design 3	1
14	Traction Installation	25
15	Wagon	5
16	<b>Grand Total</b>	<b>202</b>

SN	DEALING DIRECTORATE	ITEM	No. OF VENDORS	SPECIFICATIONS/STR/DRAWING
1	Carriage	Standardized Brake Disc for LHB Coaches to RDSO Specification No. RDSO/2017/CG-02 (Rev.0)	2	1. Spec no. -TI/SPC/PSI/30TRN/2070 with A & C Slip No.1 (Oct, 2016) 2. STR- TI/STR/014 Rev.02 3. DRG.- Nil
2	Carriage	UIC-130 Pre-Sealed, Pre-Set and Pre-Lubricated Cartridge Taper Roller Bearings (CTRB) ) for use on Coaches of LHB Design *as per FIAT Spec. No. 17.565 Partial Document 100 Ver. 01 and 17.565 Partial Document 103 Ver. 00	2	*as per FIAT Spec. No. 17.565 Partial Document 100 Ver. 01 and 17.565 Partial Document 103 Ver. 00 (*)- PU's and zonal Railways to procure CTRBs for LHB design Coaches as per above mentioned specification till the development of sources of CTRBs as per RDSO specification No. RDSO/2014/CG-02 with Amendment No-1
3	Carriage	Air Spring failure Indication cum Brake Application(FIBA) device to RDSO Specification no. RDSO/2015/CG-05 Amendment-1 of Oct.-2016.	3	Specification No. RDSO/2015/CG-05 Amendment-1 of Oct.-2016.
4	Carriage	Self lubricating Polyster Resin based composite brake gear bushes to be used in main line Coaches (BG) to RDSO Spec. No. C-K605 (Rev.02)	3	RDSO Spec. No. C-K605 (Rev.02)
5	Carriage	High capacity Thermoplastic polyester Elastomer Upper washer and Lower washer Assembly used in the Primary suspension of BG EMU/DMU Coaches to RDSO Specification No. RDSO/2010/CG-04 (Amend. 1)	3	RDSO Specification No. RDSO/2010/CG-04 (Amend. 1)
6	Carriage	Axle Mounted Disc Brake System for LHB type BG Main line Coaches to Specification No. RDSO/2011/CG-04(Rev.01 with Amendment-01)	3	Specification No. RDSO/2011/CG-04(Rev.01 with Amendment-01)
7	Carriage	Air suspension control equipments for air spring assembly system with ICF/LHB type Bogie to RDSO specification no. C-K 407(Rev.03) Amendment-1 of September 2018.	3	RDSO specification no. C-K 407(Rev.03) Amendment-1 of September 2018.

8	Carriage	GPS Location Based PA&PIS and LED Destination boards in AC & Non-AC ICF & LHB Coaches to spec no. RDSO/CG-18001(Rev.-1)	4	spec no. RDSO/CG-18001(Rev.-1)
9	Carriage	Silicon foam as a cushioning material for Indian Railway Passenger coaches (Tentative) to RDSO Specification no. RDSO/2013/CG-13 (Amendment-2)	3	(Tentative) to RDSO Specification no. RDSO/2013/CG-13 (Amendment-2)
10	Carriage	Electro Pneumatic Brake system for EMU,DMU& MEMU stock of Indian Railways to RDSO Specification No. RDSO/2013/CG-03. (Rev. 0 with Amendment-01)	4	RDSO Specification No. RDSO/2013/CG-03. (Rev. 0 with Amendment-01)
11	Carriage	Double acting Hydraulic Shock Absorbers for ICF design Coaching stock for secondary suspension to Specification no.C-8703(Rev.02) (Amend. 1)	4	RDSO Specification No.C – 8703 Rev. 2 Feb'07 with amendment-1 of August-2016; ICF Drawing No. ICF/SK-0-5-015
12	Carriage	Distributor Valve with Relay Valve for air brake system of passenger stock on Indian Railways to Spec. No. C-K209 (Rev 0 with Amendment-02)	4	Spec. No. C-K209 (Rev 0 with Amendment-02)
13	Carriage	Direct Mounted Double Row Self-aligning Spherical Roller Bearings for use on ICF Type ALL- Coil Bogies for Passenger Coaches to Spec. No. C-8527(Rev.01 of June'06 with Amendment no. 4)	4	Spec. No. C-8527(Rev.01 of June'06 with Amendment no. 4)
14	Carriage	"L" type composite brake blocks a. to specification no. C-9907(Rev.04,with Amendment-01) and drawing no SK-99048 Alt.3 b. to specification C-K211(Rev.01 with amendment-01) and drawing no SK-K2043 Alt.1	4	specification no. C-9907(Rev.04,with Amendment-01) and drawing no SK-99048 Alt.3 b. to specification C-K211(Rev.01 with amendment-01) and drawing no SK-K2043 Alt.1
15	Carriage	Air Spring Assemblies for Coaches as per STR No RDSO/2020/CG-01.	4	STR No RDSO/2020/CG-01.

16	Electrical Loco	LED based twin beam head light	3	1. Spec. no. RDSO/2017/EL/SPEC/0134 Rev.-'1' 2. STR- Nil 3. Drg.- Nil
17	Electrical Loco	EP Assisted brake system for 3- phase Electric locomotive application compatible with EP assisted brake system on coaches	1	1. Spec No.RDSO/EL/SPEC/2018/0138 Rev '0' 2. STR- Nil 3. Drg.- Nil
18	Electrical Loco	Development of Functionality Equivalent PCB Cards of GTO Based Converters and MICAS VCU in Three Phase Electric Locomotives	1	1. Spec No. RDSO/2018/EL/ SPEC/ 0139Rev-0 2. STRNo. RDSO/2018/EL/ STR/0091, Rev-0 3. Drg. -Nil
19	Electrical Loco	Single Phase to Three Phase 2 X 130 KVA Converter (SIV) for Conventional Locomotives.	4	1. Spec. No. RDSO/2018/EL/ SPEC/0140 Rev-0' 2. STR- Nil 3. DRG. - Nil
20	Electrical Loco	Computer/Microprocessor controlled air brakefor 3 phase electric locomotives	4	1. Spec No.- RDSO/2017/EL/ SPEC/ 0126 Rev.'0' 2. STR NO.RDSO/2011/EL/STR/0076 (REV.1) 3. DRG. - Nil
21	Electrical Loco	Metallised Carbon Strips for pantograph with Auto dropping device	1	1. Spec no. - RDSO/2014/EL/ SPEC/ 0114 Rev.'0' 2. STR- Nil 3. DRG.- Nil
22	Electrical Loco	Axle Box Bearing For WAP5 Locomotives	1	
23	Electrical Loco	Brake System for 3-phase locomotives	2	1. Spec No. - For WAP-5, CLW/MS/10/031 Alt. 9 or latest & For WAG-9 Co-Co, CLW/MS/3/001 Alt .16 or latest 2. STR No. RDSO/2011/EL/STR/0 076 Rev.1 3. DRG.- Nil
24	Electrical Loco	Main Compressor (Oil Lubricated) for Electric Locomotives (1745 LPM Capacity)	4	1. Spec. No. - RDSO/2018/EL/SPEC/0137 Rev-0 2. STR No. RDSO/2007/EL/STR/0 015 Rev.0 3. DRG- Nil
25	Electrical Loco	a. Main Gear bearing for Aluminium gear case of WAP5 b. Intermediate gear bearing for Aluminium gear case of WAP5 c. Pinion bearing for Aluminium Gear case of WAP5	2	1. Spec. No. - Nil 2. STR - Nil 3. DRG - a. L 558548 – L558510 b. M 432148A – M 432111 c. 798-792

26	Electrical Loco	3 Phase Locomotive Traction Motor Bearing of TM type 6FXA7059	2	1. Spec. No. - FRS NO. RDSO/EL/FRS/Bearing/0011-2015 Rev'0' 2. STR - Nil 3. TYPE - NU224 & NH219
27	Electrical Loco	Spheribloc for three phase electric locomotives	4	1. Spec. No. RDSO/2007/EL/SPEC/0051 Rev.'2' 2. STR No - RDSO/2008/EL/STR/00 50 Rev 1 3. Drg. No IA016- 00003 Rev 1, IA 016-00005 Rev 3 , IA016 -00269 Rev 3 .
28	Electrical Loco	Elastic ring for three phase electric locomotives	4	1. Spec. No. RDSO/2007/EL/SPEC/0053 Rev.'1' Sept. 2019 2. STR- Nil 3. Drg. No SKEL-4717 Alt.' 4'
29	Electrical Loco	Oil Free Main Compressor for 3-Phase Electric & WAP4 Locomotives(1750 LPM Capacity)	3	1. Spec No.- RDSO/2008/EL/SPEC/0076 (Rev '2') August 2013 2. STR- RDSO/2007/EL/STR/0 015 Rev.0 3. DRG - Nil
30	Electrical Loco	Axle Box Bearing For WAG9/WAP7 Locomotives	4	1. Spec. No. – Nil 2. STR - Nil 3. DRG - CRU-150
31	Metallurgical & Chemical	Solid MIG/MAG Welding Filler Wire, Class IV	2	Spec. No.: IRS M-46/2013 with Amendment No.1 STR No.: MC/STR/W/02-Rev-1
32	Metallurgical & Chemical	Flux cored MIG/MAG Welding Filler Wire with shielded gas, Class I, III, IV, VI, VII	4 3 3 3 2	Spec. No.: IRS M-46/2013 with Amendment No.1 STR No.: MC/STR/W/02-Rev-1
33	Metallurgical & Chemical	Portable Digital Ultrasonic Flaw Detector with A-Scan Storage	2	Spec. No.: M&C/NDT/125/2004, Rev.II, Jan. 2017, Effective Date: 01.07.2018 STR No.: M&C/NDT/131/2009, Rev-1, June-2015 Effective Date 01.01.2017
34	Metallurgical & Chemical	Manual Metal Arc Welding Electrode (Stainless Steel Type), Class M3	3	IRS M-28/2017 STR No.: MC/STR/W/01-Rev-1

35	Metallurgical & Chemical	Digital Ultrasonic Testing Equipment for welded rail joints with colored LCD TFT screen, trigonometrical function and A-Scan storage along with data setups	3	Spec. No.: M&C/NDT/129/2005,REV-II,Aug 2014 Effective Date 01.07.2015; STR No.: M&C/NDT/131/2009, Rev-1, June-2015 Effective Date 01.01.2017
36	Metallurgical & Chemical	Digital Ultrasonic Single Rail Tester with coloured signals and real A-Scan pulse echo with continuous recording of B-Scan storage along with Data setups.	3	Spec. No.: RDSO/M&C/NDT/128/2007,(B-Scan) Rev-III, July-2017) Effective Date 15.04.2019 STR No.: M&C/NDT/131/2009, Rev-1, June-2015 Effective Date 01.01.2017
37	Metallurgical & Chemical	Digital Ultrasonic Double Rail Tester with minimum two base lines, coloured signals and real A-scan pulse echo with continuous recording of B-Scan storage along with data setups	3	Spec. No.: RDSO/M&C/NDT/130/2007 (B-Scan) Rev-III, July 2017 Effective Date 18.11.2019 STR No.: M&C/NDT/131/2009, Rev-1, June-2015 Effective Date 01.01.2017
38	Metallurgical & Chemical	General Purpose Grease for M&P Application (RDSO Spec. No.WD-17-MISC-92)	3	Spec.No.: WD-17-MISC-92, STR no. M&C/STR/LUB/02/2011/Rev-1
39	Metallurgical & Chemical	Wire for Submerged Arc Welding, Class W-2	4	Spec. No.: IRS M-39/2001 with Amendment No.1, 2 & 3) STR No.: MC/STR/W/03-Rev-1
40	Metallurgical & Chemical	Flux for Submerged Arc Welding, Class F2 , F4	4 4	Spec. No.: IRS M-39/2001 with Amendment No.1, 2 & 3

41	Metallurgical & Chemical	Lubricants for Machinery & Plants(I) Internal combustion Engine Crank case oils- Gr.20W/40 to IS:13656-2019/ latest, Type EPL-2(II) Internal combustion engine crank case oils for diesel engines of Rajdhani/Shatabdi Power Cars to IS:13656-2019/latest, Type EDL-3(III) Internal combustion Engine Crank case oils- Gr. SAE-40 to IS: 13656-2019/ latest, Type EDL-2 (API-CD, with Mak T-7 Test) Diesel Engines(IV) Antiwear Hydraulic Oil Extra Heavy Duty, Gr. VG-32, VG-68 to IS:11656-1986/latest	4 4 4 4	Spec. No.: IS:13656-2019 Spec.No.: IS:11656-1986/Reaffirmed 2018 with RDSO additional requirement as slip no 1 issued by RDSO on August 2016 STR No.: M&C/STR/LUB/01/2011/Rev-1
42	Motive Power	Brake equipments, ALCO & Electric Locomotives (A) Brake equipments, ALCO & Electric Locomotives (B) Brake equipments, ALCO & Electric Locomotives	1	(A) WABCO Test Specifications (B) T-3267-0, MP.0.01.00.13, T-2463-0 MP.0.01.00.14, T-1605-0 MP.0.01.00.15
43	Motive Power	Long Life Lubricating Oil Filter Element for Locomotive Diesel Engines	2	RDSO Spec. No. MP.0.2600-15
44	Motive Power	Filter element, Fibre Glass, ECC,for EMD Locomotives	2	EMD Pt. no. 8402068, DLW Pt. no. 17453057

45	Motive Power	Low Mean Pore Size Primary & Secondary Fuel Oil Filter Elements for Diesel Electric Locomotives-1. (A) Low Mean Pore Size Primary & Secondary Fuel Oil Filter Elements for Diesel Electric Locomotives (RDSO Drg. No.: SKDP-3901, 3902)1. (B) Low Mean Pore Size Primary & Secondary Fuel Oil Filter Elements for Diesel Electric Locomotives (RDSO Drg. No.: SKDP-3908, 3909) (C) Filter Paper Media for Long Life Lubricating Oil Filter Element for Locomotive Diesel Engines	2	(A) &(B) RDSO Spec. No. MP.0.2600-25 ( C ) RDSO Spec. No. MP.0.2600-15. (A) RDSO Drg. No. SKDP-3901& 3902 (B) RDSO Drg. No. SKDP-3908 & 3909
46	Motive Power	Filter element, Brake Panel, for EMD Locomotives	2	NYAB Pt. no. 775925
47	Motive Power	Water cooled Air Compressor for HHP Diesel Locomotives	2	MP-0.07.00.14, SK.DP-3842
48	Motive Power	Centre Pivot Liner for Locomotives	2	Spec. no. MP.0.40.99.02, STR no. MP.STR.VL.04.09.11, 2. SK.DL-3255, SK.VL-472
49	Motive Power	Carbon blocks	3	Spec. No. MP.0.2400.60 (Rev-05), Nov-2018. (*) (*) Note: Refer RDSO letter no. SD.DFM.A2.2 dtd. 25.06.2020 for Carbon blocks and brush grades list for traction application in Diesel locomotives
50	Motive Power	Brake Interface Unit (BIU) for Train Collision Avoiding System and Distributed Power Control system for diesel locomotives fitted with IRAB class of brake system	3	MP.0.01.00.31
51	Motive Power	Filter Air Dryer & MR, for ALCO & EMD Locomotives(A) Filter Air Dryer & MR, for ALCo locomotives1. (B) Filter Air Dryer & MR, for EMD locomotives	3	(A) DLW Pt. no. 11664253 (B) EMD Pt. no. 9559346, DLW Pt. no. 17450822
52	Motive Power	Remote Monitoring and Management of Locomotive and Trains	3	MP.0.0402.04



53	Motive Power	Micro controller based Electronic Speed indicating and Recording system for Railway application	3	MP.0.3700.07
54	Motive Power	Three Phase AC-AC Transmission System & Associated Control Equipment for 1600 HP Diesel Electric Multiple Unit	3	MP.0.24.00.45
55	Motive Power	Microprocessor controlled Air Brake System (Spec. no. MP.0.01.00.20, Rev 03 August 2016)/ Modular Microprocessor controlled Air Brake System with advanced features (Spec. no. MP.0.01.00.24 Rev 02 August 2016)	2	MP.0.01.00.20, MP.0.01.00.24,
56	Motive Power	Rubber to metal bonded bushings for HHP Locomotives (B) Bushing rubber for HHP Locomotive	4	EMD Pt No. 40076807 / DLW Pt No. 17452200
57	Motive Power	Bearings, Traction Motor- TM Drive end & TM Non-drive end for EMD Locomotives	4	TM Drive end (DIN 43283-N 332-ECM-SRL 340-370-VA309) TM Non-drive end (DIN 43283-6326-M/C5-VA309),
58	Motive Power	(A) 'L' Type Composition Brake Block, ALCO & Electric Locomotives (B) High Friction Composition Brake Block, HHP locomotives	3	(A) MP.0.01.00.04, SK.DP-3650 (B) MP.0.0100.10, SK-DP 3630
59	Motive Power	Connecting Rod Bearings, Specification No. 31PD 5703A, (Steel Backed) Anti – Friction Metal Lined (Half Bushing, Con Rod (Cap Only) & Half Bushing, Con Rod ( Rod Only) for ALCo locomotives.	4	31PD 5703A DLW Pt. no. 10150055 DLW Pt. no. 10150043
60	Motive Power	Air Dryer, ALCO, HHP & Electric Locomotives and EMUs/ MEMUs/DEMUs	4	Spec. no. MP.0.01.00.06; STR no. MP.STR. BK.01.06.11

61	Motive Power	Centre Pivot Block Assembly	4	RDSO Drg. No SK.VL-501 (item no.2) /DLW Pt. no. 11276332
62	Motive Power	(A) 4" Single Air pressure gauge for diesel locomotive application (B) Gauge Complex with Air Flow Indicator, HHP Locomotives	3	(A) STR No. MP.STR.BK.01.01.19, DLW Part no. 11445490 (B) MP.0.01.00.32, EMD Pt No. 10631881 / DLW Pt No. 17452508
63	Motive Power	AC-AC Traction Control System for 4500HP HHP Diesel-Electric Locomotives	4	MP.0.2400.43
64	Motive Power	Auxiliary Power Unit for HHP Locomotives	4	MP.0.2400.64
65	Motive Power	Other Brake Equipments, Alco, EMD & Electric Locomotive (B) Feed Valve, ALCo, EMD & Electric locomotives ( C ) Valve -Emergency Brake for HHP Locomotive	3	( C ) DLW drg. No. / Pt. no. 8136987 / 17390187
66	Motive Power	Rubber Spring Assembly for WDG4 Locomotive (B) Rubber Spring Assembly – A & B for WDP4 Locomotives	3	(B) A- EMD Pt No. 40090677 / DLW Pt No. 17021121, B- EMD Pt No. 40090678 / DLW Pt No. 17021133
67	Motive Power	Draft Gear Assembly for Alco HHP Diesel Locomotive & Electric Locomotive (B) Draft gear with Yoke assembly for EMD locomotives-	2	(B) EMD Pt Nos. 8420236 & 8439090 / DLW Pt Nos. 17451115 & 17454530
68	Power Supply and EMU	70 Ah VRLA battery RDSO/PE/SPEC/AC/0009 – 2014 (Rev. '2')	3	RDSO/PE/SPEC/AC/0009 – 2014 (Rev. '2')
69	Power Supply and EMU	1100Ah VRLA Cell RDSO/PE/SPEC/AC/0009 – 2014 (Rev. '2')	4	RDSO/PE/SPEC/AC/0009 – 2014 (Rev. '2')
70	Quality Assurance Civil	Glue	3	
71	Quality Assurance Civil	Fabricated Crossings	3	
72	Quality Assurance	Fibre Glass Cloth Wooven Roving-360	3	

	Civil			
73	Quality Assurance Electrical	Post Insulator Cap & Pin Stack for 132kV Isolator	1	Spec. No. IS:2544-1973 STR: TI/STR/010 -R 0 DRG: Nil
74	Quality Assurance Electrical	54 MVA, 220/2x27 kV, 50 Hz, ONAN, Scott Connected Traction Power Transformer	1	Spec: ETI/PSI/124(07/1995) with A&C Slip No.1 (Oct. 2016) STR: TI/STR/014 Rev. 2 DRG: Nil
75	Quality Assurance Electrical	8 MVA, 54/27 kV, 50 Hz Auto Transformer	3	Spec: ETI/PSI/125 (07/1997) with A&C Slip No.-1 STR: TI/STR/014 Rev. 2 with Amendment No.1 DRG: Nil
76	Quality Assurance Electrical	Cable Transit System with EPDM Rubber Modules	2	Spec: RDSO/2008/EL/SPEC/0067 (Rev '2') of January 2015 STR: Nil DRG: Nil
77	Quality Assurance Electrical	11kV, 70 kN, (Ball &Socket type) Disc Insulator – 280 mm dia, CD-430mm(min.)	2	Spec: IS:731-1971 STR: Nil DRG: Nil
78	Quality Assurance Electrical	11kV, 120kN (Ball & Socket) Disc Insulator with 280mm dia CD 430mm(min.)	2	Spec: IS:731-1971 STR: Nil DRG: Nil
79	Quality Assurance Electrical	Battery charger for 110 V, 200 Ah battery	3	Spec: ETI/PSI/24(6/81) STR: Nil DRG: Nil
80	Quality Assurance Electrical	Dynamic Reactive Power Compensation Equipment	3	Spec: TI/SPC/PSI/DRPC/0050(08/05) STR: TI/STR/026 DRG: ETI/PSI/702-1

81	Quality Assurance Electrical	Five Pully Auto Tensioning Devices for 25 kV AC Traction	4	Spec:TI/SPC/OHE/5PATD/0130 with A&C slip No-1,2 & 3. STR: TI/STR/027 (Rev.2) DRG: TI/DRG/OHE/ATD/RDSO/000012/15/0 Rev. 1 TI/ORG/OHE/ATD/RDSO/000013/15/0 Rev. 1 TI/ORG/OHE/ATD/RDSO/000014/15/0 Rev.2 TI/ORG/OHE/ATD/RDSO/00008/05/0 TI/ORG/OHE/ATD/RDSO/00005/02/0
82	Quality Assurance Electrical	Battery for TRD-Lead Acid 200Ah -LM	4	Spec: RDSO/PE/SPEC/TL/0040-2003 (Rev.1) STR: RDSO/PE/STR/TL/0014-2010 (REV.1) with Amd. no. 1 & 2 DRG: SKEL - 4020/A Sheet No. 2 Alt. 3; SKEL-4020 /A Sheet No. 3 RDSO/PE/SK/0058 -03 ( Rev.1)
83	Quality Assurance Electrical	Numerical Delta-I & under voltage protection relay	3	Spec: TI/SPC/PSI/PROTCT/7100(07/2012) WITH a&c slip no.1 STTR: TI/STR/001 Rev 2 DRG: Nil
84	Quality Assurance Electrical	30 MVA, 50 Hz, Single Phase, ONAN, Traction Power Transformer with On Load Tap Changer (110/27kV)	3	Spec: TI/SPC/PSI/TRNPWR/3200 (w.e.f. 01/04/2020) STR: TI/STR/014 Rev. 2 DRG: Nil
85	Quality Assurance Electrical	132kV SF6 Circuit Breaker (Double Pole & Triple Pole)	3	Spec: TI/SPC/PSI/HVCB/0120 (June, 2014) Rev.0 with A&C slip no. 1 to 2 STR: TI/STR/015 (Rev.0) DRG: Nil
86	Quality Assurance Electrical	Ratchet Lever hoist (Pull Lift) (0.8 t, 1.6 t, 3.2 t)	3	Spec: TI/SPC/OHE/TOOLPL/1990 with A & C Slip No.1 STR: TI/STR/007 Rev. 1 DRG: Nil
87	Quality Assurance Electrical	Gearless Hand Operated Pulling and Lifting Machine(0.8t, 1.6t, 3.2t)	4	Spec: TI/SPC/OHE/TOOLPL/0990 with A & C Slip No.1 & 2 STR: TI/STR/007 Rev. 1 DRG: Nil

88	Quality Assurance Electrical	66kV Solid Core Post Insulator Assembly for 66kV Isolators and Bus Bars	3	Spec: TI/SPC/OHE/POST/0100 (01/2010) with A & C slip no. 1 STR: TI/STR/010 -R 0 DRG: Nil
89	Quality Assurance Electrical	Numerical feeder protection relay comprising DPR, OCR, PTFE and Auto reclosure function	3	Spec: TI/SPC/PSI/PROTCT/7100(07/2012) with A & C slip no. 1 STR: TI/STR/001 (Rev.2) DRG: Nil
90	Quality Assurance Electrical	110 kV Solid Core Post Insulator Assembly for 110 kV Isolators & Bus Bars	3	Spec: TI/SPC/OHE/POST/0100 (01/2010) with A & C slip no. 1 STR: TI/STR/010 -R 0 DRG: Nil
91	Quality Assurance Electrical	Battery charger for 110 V, 40 Ah battery	4	Spec: IRS:S-99/2006 (Amd.-3 ) STR: SIQ-0001 Ver.2 DRG: Nil
92	Quality Assurance Electrical	245 kV Solid Core Post Insulator Assembly for 220 kV Isolators & Bus Bars.	3	Spec: TI/SPC/OHE/POST/0100 (01/2010) with A & C slip no. 1 STR: TI/STR/010 -R 0 DRG: Nil
93	Quality Assurance Electrical	Porcelain 9-tonne Insulators (RI 6020-1) (1050 mm CD)	4	Spec: TI/SPC/OHE/INS/0070 (04/2007) with A & C slip no. 1 & 2 STR: TI/STR/010-R 0 DRG: Nil
94	Quality Assurance Electrical	ZS Coupling 400 A 750 V	4	Spec: EDTS 105 Rev. E with Amndt. No. 1, 2 &3 STR: RDSO/PE/STR/AC/0033-2011(Rev-0) DRG: Nil
95	Quality Assurance Electrical	21.6/30.24 MVA, 50 Hz, Single Phase, ONAN/ONAF, Traction Power Transformer 110/27 kV	4	Spec: TI/SPC/PSI/TRNPWR/3200 STR: TI/STR/014 Rev. 2 DRG: Nil

96	Quality Assurance Electrical	Porcelain Stay Arm Insulator ( RI 6000-2) (1050mm CD)	4	Spec: TI/SPC/OHE/INS/0070 (04/2007) with A & C slip no. 1 & 2 STR: TI/STR/010-R 0 DRG: Nil
97	Quality Assurance Electrical	Porcelain Bracket insulator (RI 6030-1) (1050mm CD)	4	Spec: TI/SPC/OHE/INS/0070 (04/2007) with A & C slip no. 1 & 2 STR: TI/STR/010-R 0 DRG: Nil
98	Quality Assurance Electrical	Composite Stay Arm Insulator (1050mm CD)	4	Spec: TI/SPC/OHE/INSCOM/1071 Rev 01 STR: TI/STR/006 Rev 4 DRG: Nil
99	Quality Assurance Electrical	Composite Bracket Insulator (1050 mm CD)	4	Spec: TI/SPC/OHE/INSCOM/1071 Rev 01 STR: TI/STR/006 Rev 4 DRG: Nil
100	Quality Assurance Electrical	132 kV Solid Core Post Insulator Assembly for 132 kV Isolators & Bus Bars	4	Spec: TI/SPC/OHE/POST/0100 (01/2010) with A & C slip no. 1 STR: TI/STR/010 -R 0 DRG: Nil
101	Quality Assurance Electrical	Battery for TRD- Lead Acid 40Ah -LM	4	Spec: RDSO/PE/SPEC/TL/0040-2003 (Rev.1) STR: RDSO/PE/STR/TL/0014-2010 (REV.1) with Amd. no. 1 & 2 DRG: SKEL - 4020/A Sheet No. 2 Alt. 3; SKEL- 4020 /A Sheet No. 3 RDSO/PE/SK/0058 -03 ( Rev.1)
102	Quality Assurance Electrical	Composite 9 Tonne Insulator (Polluted zone) (1050mm CD)	4	Spec: TI/SPC/OHE/INSCOM/1071 Rev 01 STR: TI/STR/006 Rev 4 DRG: Nil
103	Quality Assurance Electrical	Sectioning Insulator (RI 6110) (850mm CD)	4	Spec: TI/SPC/OHE/INS/0070 (04/2007) with A & C slip no. 1 & 2 STR: TI/STR/010 -R 0 DRG: Nil

104	Quality Assurance Electrical	Post Insulator for 25 kV Isolator and Bus Bars (RI 6090)	4	Spec: TI/SPC/OHE/INS/0070 (04/2007) with A & C slip no. 1 & 2 STR: TI/STR/010 -R 0 DRG: Nil
105	Quality Assurance Electrical	Section Insulator Assembly (Without Sectioning Insulator)	4	Spec: ETI/OHE/27 (8/84) with A & C 1 & 2 STR: TI/STR/034 (Rev.1) DRG: i. ETI/OHE/P/6100 (Rev.B)-Section Insulator Assembly, ii. ETI/OHE/P/6110 (Rev.A) -Standard Sectioning Insulator iii. ETI/OHE/P/6120 (Rev.B)-Contact wire end link Assembly iv. ETI/OHE/P/6122-6125 (Rev.B)-Fastners for Section Insulator Assembly v. ETI/OHE/P/6130 (Rev.A)-Section Insulator Cross Beam Assembly vi. ETI/OHE/P/6132/33 (Rev.A) -Fastners for Section Insulator Assembly vii. ETI/OHE/P/6140 (Rev.A) -Runner Assembly viii. ETI/OHE/P/6150 (Rev.A)-Runner End Contact wire Ending Clamp ix. ETI/OHE/P/6160 (Rev.A)-Insulator end Contact Wire Ending Clamp STR:
106	Quality Assurance Electrical	Galvanised Stranded Steel Traction Bond	4	Spec: TI/SPC/OHE/GALSTB/0040 STR: TI/STR/0031 DRG: Nil
107	Quality Assurance Electrical	Operating Rod Insulator for 25 kV Isolator (RI 6260)	4	Spec: TI/SPC/OHE/INS/0070 (04/2007) with A & C slip no. 1 & 2 STR: TI/STR/010 -R 0 DRG: Nil
108	Quality Assurance Electrical	Un-insulated Cadmium Copper Catenary Wire 125 mm <sup>2</sup> (37/2.10 mm)	4	1. Spec no. -ETI/OHE/50 (06/97) with A & C Slip No. 1 to 6 2. STR- TI/STR/020(Rev 1) 3. DRG.- Nil
109	Quality Assurance Mechanical	High tensile centre buffer coupler & its components for Freight stock D) Knuckle Thrower	4	i) 48-BD-2008 with Amend. No.1 of Sep. 2016, 56-BD-07 with Amend. No.1 of Sep'10 with Amend. no. 2 of Sep 2016, SK-62724 Alt.28-Item 9. ii) 24-BD-79 with 4 Amendments: Last Amendment no. 4 issued in Sep 2016, SK-79556 Alt.6-Item 3

110	Quality Assurance Mechanical	Lubricated Taper Plug Valves	3	i. WD-06-TPV-93 Amend No. 1 of Dec'97, WD-93066-S-01 Alt. 2. li. WD-05-TPV-91 Amnd No. 1 of Apr'92, W/TF-88
111	Quality Assurance Mechanical	Brake Slack adjusters and spares for Freight stock	2	i)Spec. No. 07-ABR-1992 with 5 Amendments –Last Amendment No. 5 of Sept. 2016; Drg. No. WD-82064-S-01- RC Alt. 12 WD-90002-S-01-RC Alt.02 ii) Spec. No. 19-ABR-07 with 3 Amendments: Last Amemendment no. 3 issued in Sept. 2016, Drg. No. WD-93061-S-01 Alt. 01
112	Quality Assurance Mechanical	AAR approved Taper Roller Cartridge Bearings Class-E (6"x11")	3	(Spec. No. AB/RB-39-2002 Rev. 4 of February-2018)
113	Quality Assurance Mechanical	Constant Contact Side Bearer for rolling stock	3	WD-38-Misc.-2004 Rev. Amend. No.2 of Sept. 2016 AAL-021101 Alt.-8 AAL-021101/N Alt.-1, CONTR-01-MISC-07 Rev 1 of Sep. 2010, Sujan Industries drawing No40704 Alt- B.5
114	Quality Assurance Mechanical	Screw couplings (Including Spares) for Freight, Coaching & Locomotive application	3	i)R-9-66 Corrigendum No. 3 of Dec. 1988, SK-69503 Alt.11, ii)C-9505 Rev. Aug. 2001, SK-99001 Alt. 4 iii)MP-0.41.00.01 Rev.1 of Apr'034, SKDL-2494 Alt. 17
115	Quality Assurance Mechanical	Component of Graduated release compressed air brake equipment for Freight & Coaching stock	3	Specification No.- 02-ABR-02 Amendments 4 Sept. 2016; 04- ABR-2019 Rev. 02 of Dec-2019
116	Quality Assurance Mechanical	Snubber assembly for locomotives	3	SKDL 2089A
117	Quality Assurance Mechanical	Graduated release compressed air brake equipment for Freight Stock	4	(Specification No.- 02-ABR-02 with 4 Amendments (Last Amendment-4 of Sept. 2016;)
118	Quality Assurance Mechanical	Centre Pivot Rubber Bush for WDP1, WDG3A	4	A (Spec. No. IP/MP(VDG) Bush/002 Rev. 01 of Jan'07, Drg. No. SKVL-266 Alt.3, Item No. 2 of Drg. No. SK.VL-028A Alt.7 & SK.VL-128 Alt. 6)
119	Quality Assurance Mechanical	Empty Load Device-IR-ELD-10	4	(Drg. No.WD-84074-S-01 RC Alt. 3, WD-84074-S-02 RC Alt. 1, WD84074-S-03 RC Alt. 3)
120	Quality Assurance (Singal &Tele )	Valve Regulated (Sealed) Lead Acid Stationary Battery Charger for Railway S&T Installations	1	Spec: IRS:S-93/96(B) (Amd. 1 ) STR: SIQ-0110 Ver.3 DRG: Nil



121	Quality Assurance (Singal &Tele )	Auto Dialing System From Emergency Socket	1	Spec: IRS:S-83/2007 Amd-1 & 2 STR: TCQ-0032 DRG: Nil
122	Quality Assurance (Singal &Tele )	Emergency Control Room Equipment	1	Spec: IRS TC:61-93 (Amd.1) STR: TCQ-0020 DRG: Nil
123	Quality Assurance (Singal &Tele )	Single Line Neale's Ball Token, Type 'A'	1	Spec: RDSO/SPN/S-114/91 STR: SIQ 0201 Ver 0 DRG: SA-20701
124	Quality Assurance (Singal &Tele )	Relays – Point Contactor Unit	2	1. Spec. No. - IRS:S-46/74 with Amend '1' & Firm's Spec 2. STR - SIQ/0420 Version 1.0 3. DRG - NIL
125	Quality Assurance (Singal &Tele )	Thermo Shrink Jointing Kit For Jointing Underground Quad Cable (0.9 mm Conductor Dia.)	2	1. Spec. No. -IRS: TC 77-2012 (Rev.3) with Amnd. 1 to 3 2. STR - TCQ 0028 3. DRG - NIL
126	Quality Assurance (Singal &Tele )	Track Feed Resistance (Porcelain Base, Phenolic Moulding Base) 7.5 Ohm, 15 Ohm, 30 Ohm	2	1. Spec. No. -NIL 2. STR - NIL 3. DRG - SA-20161 66/M
127	Quality Assurance (Singal &Tele )	Relays – 3-Position DC Polarized (Metal to Metal)	2	1. Spec. No. -IRS:S-31/80 (Amd.1), S-23 & S-24 2. STR - SIQ/0420 Version 1.0 3. DRG - NIL
128	Quality Assurance (Singal &Tele )	Desk Type 2 Wire, 12 Way DTMF Telephone	2	1. Spec. No. -IRS TC 80-2000 (Amendment No.1,2 & 3) 2. STR - TCQ 0033 3. DRG - NIL
129	Quality Assurance (Singal &Tele )	2 –Wire Way Station Control Telephone	2	1. Spec. No. -IRS TC 37-97 (Amd.1 & 2) 2. STR - TCQ 0033 3. DRG - NIL

130	Quality Assurance (Singal &Tele )	Circuit Controller (Modified Design) Lever and Arm, DW Lever Circuit Controller (Rotary Type)	2	1. Spec. No. -Nil 2. STR - SIQ 0203 ver 1 3. DRG - SA20245, 46,66,67, 76,77,86,87 Drg.No. SA-22401, 420, 430 & 440
131	Quality Assurance (Singal &Tele )	Six Pin Emergency Plug And Socket	2	1. Spec. No. -IRS:TC 42-87, Amendment No. 1,2 &3 2. STR - TCQ 0013 3. DRG - NIL
132	Quality Assurance (Singal &Tele )	Primary Digital Multiplexing Equipment	3	Spec: IRS/TC/68/2012 Rev.0 with Amendment No.1 STR: TCQ 0024 DRG:NIL
133	Quality Assurance (Singal &Tele )	Magneto Telephone	3	Spec: IRS TC: 36-97 (Amd.1 & 2) STR: TCQ 0009 DRG: Nil
134	Quality Assurance (Singal &Tele )	Filter Unit for Use in Conjunction With Block Instrument In 25kv, 50 Hz, Ac Traction Areas	3	Spec: IRS:S-68/89 STR: NIL DRG: Nil
135	Quality Assurance (Singal &Tele )	4 Wire / 2 Wire TrainTraffic Control Equipment Dual Tone Multi Frequency ( DTMF ) Signalling	3	Spec: IRS TC:60-2007 with Amendment 1 STR: TCQ 0010 DRG: Nil
136	Quality Assurance (Singal &Tele )	120/160/200 Way TAG Blocks For Signalling Installations	3	Spec: IRS:S-77/2006 (Rev.1) STR: SIQ 0201 Ver 0 DRG:SA-24751, SA-24752, SA-24753
137	Quality Assurance (Singal &Tele )	Voice Frequency Communication System For Underground Quad cable	3	Spec: RDSO/SPN/TC/34/2002 (Ver. 4) amd 1 STR: TCQ 0103 DRG: Nil
138	Quality Assurance (Singal &Tele )	Universal Wayside DTMF Control Telephone	3	Spec: IRS :TC 82- 2005 (Amedment No.1,2 & 3) STR: TCQ 0033 DRG: Nil

139	Quality Assurance (Singal &Tele )	SITEL' Primary Cells (Dry, Lachlanche Type) For Railway S&T Installations	4	IRS:S-95/96 (Amd. 1)
140	Quality Assurance (Singal &Tele )	Relay Contacts – SIG– (For'Q' series plug-in type relays only)	4	1. Spec. No. - IRS:S-67/85 (Amd.3) 2. STR - SIQ-0421 Ver 0 3. DRG - NIL
141	Quality Assurance (Singal &Tele )	Non-Metallic Colour Light Signal Housings of Various Types for Railway Signalling	4	1. Spec. No. -RDSO/SPN/194/2006 Rev 2.0 2. STR - SIQ 0205 3. DRG - SA 23001 A/M ,SA 23002 A/M, SA 23003 A/M, SA23401-06, SA23840, SA24351
142	Quality Assurance (Singal &Tele )	Non Deteriorating Type of Low Voltage Electric Fuses For Railway Signalling	4	Spec:IRS:S-78/92 STR: NIL DRG: NIL
143	Quality Assurance (Singal &Tele )	Nylon Insulated Joints	4	Spec: IRS:S-40/84 STR: SIQ-0201 Ver 0 DRG: SA-22101 (Alt.6) 52Kg; SA-22171 (Alt.2) 60Kg; SA-22181 (Alt.2) 60Kg(UIC) SA-22191 (Alt.2) 90R
144	Quality Assurance (Singal &Tele )	DTMF Based Block Bell And Telephone Equipment	4	Spec: RDSO/SPN/191/2005 ( Ver.0) STR:SIQ 0702 (Ver.0) DRG: NIL
145	Quality Assurance (Singal &Tele )	DC-DC Converter For Railway S&T Instalations	4	Spec: RDSO/SPN/191/2005 ( Ver.0) STR: SIQ-0110 Ver.3 DRG: NIL
146	Quality Assurance (Singal &Tele )	Two/Three V.F Transformers (2T/3T) For Derivationand Termination Of Underground Telecom Cable Circuit	4	Spec: IRS: TC: 76-2000 with Amd-1 STR: TCQ 0027 DRG: Nil
147	Quality Assurance (Singal &Tele )	Electric Point & Lock Detector	4	Spec: IRS:S-49/74 (Amd.1) STR: SIQ 0203 Ver.1 DRG: SA-23331, 32,33

148	Signal	Domino type control panel as per Specification No. RDSO/SPN/186/2004 Ver 2.0	0	1. Spec no. - RDSO/SPN/186/2004 Ver 2.0 2. STR- SIQ 0207 3. DRG.- Nil
149	Signal	Push Button TLBI with UFSBI (Delton Make)	1	Spec: IRS: S-32-66 STR: NIL DRG: S & T Workshop S.Rly Podanur- CWM01203 and with Deltron make UFSBI, UFSBI SPN IRS S: 104/2012 Ver 0
150	Signal	Electronic Interlocking (i)(RDSO/SPN/192/2005 Ver 1.0) (ii) RDSO/SPN/203/2011	2	Spec: RDSO/SPN/203/2011 Ver.1.0 STR: SIQ 0001 (Ver.2) DRG: NIL
151	Signal	High Availability Single Section Digital Axle Counter	2	Spec: RDSO/SPN/177/2012 (Ver.3) STR: NIL DRG: NIL
152	Signal	SSBPAC (DIGITAL) For Double Line and Single Line	2	Spec: RDSO/SPN/175/2005 Ver.1 STR: SIQ 0001 (Ver.2) DRG: RDSO/S/32025 , RDSO/S/32023
153	Signal	Universal Fail safe Block Interface	2	1. Spec. No. -IRS:S-104/2012 Ver.'0' 2. STR - SIQ-0001 Ver.1 3. DRG - NIL
154	Signal	FOG PILOT ASSISTANCE SYSTEM for SAFETY (FOG PASS)	2	1. Spec. No. -IRS:S-104/2012 Ver.'0' 2. STR - SIQ 0366, VERSION '0' 3. DRG - NIL
155	Signal	Automatic Fire Detection & Alarm System for Signalling installations (AFDAS)	2	1. Spec. No. -RDSO/SPN/217/2018 Ver.2.0 2. STR - SIQ 0211 Ver.1.0 3. DRG - NIL
156	Signal	Advanced Auxiliary Warning System (AAWS)	2	Spec:RDSO/SPN/213/2014 Ver.1.0 STR: SIQ0001 Ver. 2 DRG: Nil

157	Signal	Code of practice for earthing and bonding system for signaling equipment	3	Spec: RDSO/SPN/197, Version 1.0 STR: SIQ 0115, Version 1.0 DRG:NIL
158	Signal	Train Collision Avoidance System (TCAS)	3	Spec: RDSO/SPN/196/2012 Ver.3.2 STR: SIQ 0001 Ver. 2.0 DRG: Nil
159	Signal	Data logger system for Railway S&T Installations	4	Spec: TI/SPC/OHE/POST/0100 (01/2010) with A & C slip no. 1 STR: TI/STR/010 -R 0 DRG: Nil
160	Signal	Audio Frequency Track Circuit	4	1. Spec. No. - RDSO/SPN/146/2001 2. STR - SIQ-0001 Ver.1 3. DRG - NIL
161	Telecommunication	VHF Based Approaching Train Warning System for track Maintainers	0	1. Spec no. - RDSO/TC/105/2015 rev 1.0 2. STR- TCQ 0155 3. DRG.- Nil
162	Telecommunication	Voice Data Logger/ Monitor for Control Circuits	1	Spec: RDSO/SPN/TC/38/2002 (Rev.1.1) Amdment No.-2 STR: TCQ 0105 DRG: Nil
163	Telecommunication	Level Crossing gate control and monitoring Equipment based on wired & wireless (VHF) ccommunication	0	Spec: RDSO/SPN/TC/49-2020 Ver .1.0 STR: TCQ 0111 DRG: Nil
164	Telecommunication	VHF Based Secured Station Communication Equipment	1	Spec: RDSO/SPN/TC/73/2008, Rev.0.0 Amendment-1 & 2 STR: TCQ-0130 DRG: Nil

165	Telecommunication	Control Communication Equipment for OFC Using 2-Wire Telephone.	2	1. Spec. No. -RDSO/SPN/TC/66/2007 (Amendment No, 3) 2. STR - TCQ 0125 3. DRG - NIL
166	Telecommunication	SMPS Based Telecom Integrated Power Supply System For Station (TIPSS)	2	1. Spec. No. -RDSO/SPN/TC/102-2013, Ver.1.0 Amendment No.1 2. STR - TCQ 0152 3. DRG - NIL
167	Telecommunication	Emergency Socket Box Of FRP Material	2	1. Spec. No. -RDSO/SPN/TC/44/2002 Ver.2.0, Amendment-1,2 & 3 2. STR - TCQ 0108 3. DRG - TCDO/RE/001/2002
168	Traction Installation	21.6 MVA, 132/2x27kV 50 Hz, ONAN, Single Phase Traction Power Transformer	0	1. Spec. no. ETI/PSI/123 (09/1993) with A & C Slip No. 1 & 2 2. STR- TI/STR/014 Rev.02 3. Drg.- Nil
169	Traction Installation	30 / 42 MVA, 50 Hz, Single Phase, ONAN/ONAF, Traction Power Transformer (110/27 KV)	1	1. Spec no. - TI/SPC/PSI/30TRN/2070 with A & C Slip No.1 (Oct, 2016) 2. STR- TI/STR/014 Rev.02 3. DRG.- Nil
170	Traction Installation	Light Weight Section Insulators Assembly	1	1. Spec no. - TI/SPC/OHE/LWTSI/0060 Rev.01 With A&C 1 2. STR- TI/STR/024 Rev.2 3. DRG.- Nil
171	Traction Installation	Shunt Capacitor	1	1. Spec no. - ETI/PSI/126(08/1989) with A&C 1 to 3 2. STR- TI/STR/005 Rev.01, A&C - 1 3. DRG.- ETI/PSI/702-1
172	Traction Installation	Series Capacitor	1	1. Spec no. - ETI/PSI/127(08/1989) with A&C 1 to 3 2. STR- TI/STR/005 Rev.01, A&C - 1 3. DRG.- ETI/PSI/702-1
173	Traction Installation	25 Kv Double Pole Vacuum Interrupters	1	1. Spec no. - TI/SPC/PSI/LVCBIN/0120 (12/13) Rev-0 With A&C - 1 2. STR- TI/STR/015 Rev.01 3. DRG.- Nil

174	Traction Installation	25 Kv Double Pole Vacuum Circuit Breaker	1	<ol style="list-style-type: none"> <li>1. Spec no. - TI/SPC/PSI/LVCBIN/0120 (12/13) Rev-0 With A&amp;C - 1</li> <li>2. STR- TI/STR/015 Rev.01</li> <li>3. DRG.- Nil</li> </ol>
175	Traction Installation	Converter Oil for 3 pphase locomotives	1	<ol style="list-style-type: none"> <li>1. Spec no. -IEC: 60296-2003 and CLW Spec.No. CLW/ES/3/0172(Latest and RDSO requirement)</li> <li>2. STR- TI/STR/013 Rev.03</li> <li>3. DRG.- Nil</li> </ol>
176	Traction Installation	30 / 42 MVA, 50 Hz, Single Phase, ONAN/ONAF Traction Power Transformer (220/27 KV)	1	<ol style="list-style-type: none"> <li>1. Spec no. -IEC: 60296-2003 and CLW Spec.No. CLW/ES/3/0172(Latest and RDSO requirement)</li> <li>2. STR- TI/STR/013 Rev.03</li> <li>3. DRG.- Nil</li> </ol>
177	Traction Installation	25 Kv Composite section Insulator (1050 mm CD)	1	<ol style="list-style-type: none"> <li>1. Spec no. -TI/SPC/OHE/INSCOM/1071 Rev.1</li> <li>2. STR- TI/STR/006 Rev.04</li> <li>3. DRG.- Nil</li> </ol>
178	Traction Installation	Panto Flash Over Protection Relay for 25 kV AC single phase 50Hz traction system	2	<ol style="list-style-type: none"> <li>1. Spec no. -TI/SPC/PSI/PROTCT/2983 with A &amp; C Slip No.1</li> <li>2. STR- TI/STR/001 Rev.02</li> <li>3. DRG.- Nil</li> </ol>
179	Traction Installation	Delta-I type high resistive fault selective relay for 25 kV AC single phase 50Hz traction system	2	<ol style="list-style-type: none"> <li>1. Spec no. -TI/SPC/PSI/PROTCT/1982 with A &amp; C Slip No.1 &amp; 2</li> <li>2. STR- TI/STR/001 Rev.02</li> <li>3. DRG.- Nil</li> </ol>
180	Traction Installation	Microprocessor based Numerical Integrated Feeder Protection Module comprising DPR, OCR, WPC, PTF & Auto Reclosure Relay for 25 kV AC Single phase 50 Hz Traction Sub-station	2	<ol style="list-style-type: none"> <li>1. Spec no. -TI/SPC/PSI/PROTCT/5070 (Rev.1) with A&amp;C Slip No. 1</li> <li>2. STR- TI/STR/001 Rev.02</li> <li>3. DRG.- Nil</li> </ol>
181	Traction Installation	Control & Relay Panel for protection system of Mumbai Sub-urban area for 50Hz AC Traction Power Supply System including Parallel Operation on 25 kV Side	2	<ol style="list-style-type: none"> <li>1. Spec no. -TI/SPC/PSI/PROTCT/4050(10/2005) with A&amp;C Slip No. 1</li> <li>2. STR- TI/STR/001 Rev.02 &amp; TI/STR/002 Rev.02</li> <li>3. DRG.- Nil</li> </ol>
182	Traction Installation	SCADA System Complete.	3	<ol style="list-style-type: none"> <li>1. Spec no. -TI/SPC/RCC/SCADA/0130 (Rev.2) with A&amp;C Slip No. 1 to 3</li> <li>2. STR- TI/STR/028 Rev.1</li> <li>3. DRG.- Nil</li> </ol>

183	Traction Installation	Short Neutral Section Assembly (Phase Break)	3	<ol style="list-style-type: none"> <li>1. Spec no. -TI/SPC/OHE /SNS/ 0000 Rev.-1 with A&amp;C Slip No.1</li> <li>2. STR- TI/STR/024 Rev.2</li> <li>3. DRG.- Nil</li> </ol>
184	Traction Installation	Higher diameter (22.5 mm to 26 mm dia.) Continuous Cast Copper (CCC) Wire Rod(Manufactured by South Wire Process)	2	<ol style="list-style-type: none"> <li>1. Spec no. -ETI/OHE/65 (08/87) with A &amp; C Slip No. 1 to 5 and ETI/OHE/76 (06/97) with A&amp;C Slip 1,3,4,5,6,7,8,9 &amp; 10</li> <li>2. STR- TI/STR/025 (Rev 1)</li> <li>3. DRG.- Nil</li> </ol>
185	Traction Installation	Control & Relay Panel for 25 kV AC TSS including specification for Numerical type Protection Relays for Traction Transformer, 25 kV Shunt Capacitor Bank and Transmission line for 25 kV AC TSS on Indian Railways	2	<ol style="list-style-type: none"> <li>1. Spec no. -TI/SPC/PSI/PROTCT/6071 with A&amp;C Slip No. 1</li> <li>2. STR- TI/STR/001 Rev.02 &amp; TI/STR/002 Rev.02</li> <li>3. DRG.- Nil</li> </ol>
186	Traction Installation	Series Reactor for Capacitor Bank Low loss	2	<ol style="list-style-type: none"> <li>1. Spec no. -TI/SPC/PSI/FC&amp;SR/0100 with A&amp;C Slip No. 1 (Oct 2016)</li> <li>2. STR- TI/STR/004</li> <li>3. DRG.- ETI/PSI/702-1</li> </ol>
187	Traction Installation	245 kV SF6 Circuit Breaker (Double Pole & Triple Pole)	2	<ol style="list-style-type: none"> <li>1. Spec no. -TI/SPC/PSI/HVCB/0120 (June,2014) Rev.0 with A&amp;C Slip No. 1 &amp; 2</li> <li>2. STR- TI/STR/015 Rev.1</li> <li>3. DRG.- Nil</li> </ol>
188	Traction Installation	Control and Relay Panel including Numerical type protection relays for Scott-connected/ Single Phase Traction Transformers, OHE protection and Shunt Capacitor Bank Protection for 2x25 kV Traction Sub-station comprising following relays	2	<ol style="list-style-type: none"> <li>1. Spec no. -TI/SPC/PSI/PROTCT/7100(07/2012) with A&amp;C Slip No.1</li> <li>2. STR- TI/STR/001 Rev.02 &amp; TI/STR/002 Rev.02</li> <li>3. DRG.- Nil</li> </ol>
189	Traction Installation	21.6/30.24 MVA, 50 Hz, Single Phase, ONAN/ONAF, Traction Power Transformer 66/27 kV	3	<ol style="list-style-type: none"> <li>1. Spec no. -ETI/PSI/118 (10/1993) with A&amp;C 1 to 11</li> <li>2. STR- TI/STR/014 Rev.02</li> <li>3. DRG.- Nil</li> </ol>
190	Traction Installation	Composite 9 Tonne Insulator (Very Heavy Polluted) (1600mm CD)	3	<ol style="list-style-type: none"> <li>1. Spec no. -TI/SPC/OHE/INSCOM/ 1071 (Rev-01)</li> <li>2. STR- TI/STR/006 Rev.04</li> <li>3. DRG.- Nil</li> </ol>



191	Traction Installation	Composite Stay Arm Insulator (Very heavy polluted) (1600mm CD)	3	1. Spec no. -TI/SPC/OHE/INSCOM/ 1071 (Rev-01) 2. STR- TI/STR/006 Rev.04 3. DRG.- Nil
192	Traction Installation	Composite Bracket Insulator (Very heavy polluted) (1600mm CD)	3	1. Spec no. -TI/SPC/OHE/INSCOM/ 1071 (Rev-01) 2. STR- TI/STR/006 Rev.04 3. DRG.- Nil
193	Track Design 3	Zero toe load fastening (ZTLF) system	3	1. Spec no. -IRS specification for elastic rail clips (IRST-31), IRS specification for special cast liner (Provisional-2019) & IRS specification for Steel base plate(Provisional-2019) 2. STR- Item specific guidelines for zero toe load fastening (ZTLF) system (Provisional-2019) & Guidelines for procuring stainless steel plate to be embedded with rail pad (Provisional-2019) 3. DRG.- RDSO/T-8759 to RDSO/T-8765
194	Track Design 2	Reconditioning of cupped welded joints	1	
195	Track Design 2	Reconditioning of wheel burns/scabs	1	
196	Track Design 2	H3C Class Electrodes (Minimum Life-50 GMT)	3	
197	Track Design 2	H3B Class Electrodes (minimum Life -35 GMT)	4	
198	Wagon	Automatic Twist Lock (ATL)	1	RDSO Document No. CONTR-01-MSG-ATL-2011 of Nov 2011 & envelope drg no. CONTR-9405-S/21
199	Wagon	Non-Asbestos K-Type Composition Brake Blocks for freight stock (840 mm wheel Dia.)	1	WD-14-ABR-2019 & DRG No. 15023-S-01
200	Wagon	Draft Gears for Slackless Draw Bar to RDSO specification no. WD-72-BD(SDB)-19	4	specification no. WD-72-BD(SDB)-19 & envelope drg no. RITES/TP- 9405-S/001(draw bar arrangement)
201	Wagon	AAR approved Cartridge Tapered Roller Bearings Class-"K" (6.5"x9") for freight stock fitted with light weight Low height (LWLH) bogies(Narrow Jaw) for 25t axle load application	3	specification no. AB/RB-41-2016
202	Wagon	NM friction wedge	4	RDSO specification CONTR-02-MISC-2007 and envelop drawing no. WX-10046

SN	CONTACT US	email id	Phone No
1	<b>Civil Engg</b>		
(i)	Bridges	ebdsrdso@gmail.com	0522 - 2450398
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2	<b>Mechanical Engg</b>		
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4	<b>Electrical Dte</b>		
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