

List of items having Less than Five (5) Vendors (As on 01.04.2021)

SN	DIRECTORATE	COUNT OF ITEMS
1	Carriage Directorate	11
2	Electrical Loco Directorate	10
3	Metallurgical & Chemical Directorate	11
4	Motive Power Directorate	17
5	Power Supply and EMU	2
6	Quality Assurance (Singal &Tele)	28
7	Quality Assurance Civil	5
8	Quality Assurance Electrical	29
9	Quality Assurance Mechanical	11
10	Signal Directorate	11
11	Telecommunication Directorate	5
12	Track Design 2	2
13	Traction Installation	21
14	Wagon	5
	Grand Total	168

SN	DEALING DIRECTORATE	ITEM	No. OF VENDORS	SPECIFICATIONS/STR/DRAWING
1	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 3 RDSO Specification No. RDSO/2010/CG-04 (Amend. 1)	3	RDSO Specification No. RDSO/2010/CG-04 (Amend. 1)
2	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)

3	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 Sources C – 9907 Rev.04,3 Sources C -K211 Rev.01	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
5	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)
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)	4	Specification No. RDSO/2011/CG -04(Rev.01 with Amendment -01)
7	Carriage	Self-lubricating Polyester 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)
8	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)
9	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	3	*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/CG02 with Amendment No-1
10	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)
11	Carriage	Hot Coiled Cylindrical Springs for use in Suspension of I.R. coaches having FIAT Design Bogie to RDSO Specification No. RDSO/2017/CG-01 (Rev.01) with Corrigendum No.-01 of October - 2019. (ii) Secondary Springs for FIAT Bogie	4	Specification No. RDSO/2017/CG-01 (Rev.01) with Corrigendum No.-01 of October - 2019.
12	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

13	Electrical Loco	Development of Functionality Equivalent PCB Cards of GTO Based Converters and MICAS VCU in Three Phase Electric Locomotives	2	1. Spec No. RDSO/2018/EI/ SPEC/ 0139Rev-0 2. STRNo. RDSO/2018/EL/ STR/0091, Rev-0 3. Drg. -Nil
14	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
15	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
16	Electrical Loco	Axle Box Bearing For WAP5 Locomotives	1	
17	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
18	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
19	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
20	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

21	Electrical Loco	Axle Box Bearing For WAG9/WAP7 Locomotives	4	1. Spec. No. - Nil 2. STR - Nil 3. DRG - CRU-150
22	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
23	Metallurgical & Chemical	Flux cored MIG/MAG Welding Filler Wire with shielded gas, Class VII	2	Spec. No.: IRS M-46/2013 with Amendment No.1 STR No.: MC/STR/W/02-Rev-1
24	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
25	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
26	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
27	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
28	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
29	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
30	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

31	Metallurgical & Chemical	Flux for Submerged Arc Welding, Class F2 , F4	4	Spec. No.: IRS M-39/2001 with Amendment No.1, 2 & 3
32	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	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
33	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
34	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
35	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
36	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
37	Motive Power	Remote Monitoring and Management of Locomotive and Trains	3	MP.0.0402.04
38	Motive Power	Micro controller based Electronic Speed indicating and Recording system for Railway application	3	MP.0.3700.07

39	Motive Power	Three Phase AC-AC Transmission System & Associated Control Equipment for 1600 HP Diesel Electric Multiple Unit	3	MP.0.24.00.45
40	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
41	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),
42	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
43	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
44	Motive Power	Centre Pivot Block Assembly	4	RDSO Drg. No SK.VL-501 (item no.2) /DLW Pt. no. 11276332
45	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
46	Motive Power	AC-AC Traction Control System for 4500HP HHP Diesel-Electric Locomotives	4	MP.0.2400.43
47	Motive Power	Auxiliary Power Unit for HHP Locomotives	4	MP.0.2400.64
48	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
49	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

50	Power Supply and EMU	1100 AH VRLA cell	4	Specification No.:- RDSO/PE/SPEC/AC/ 0009- 2014 (Rev. '2') and STR No. RDSO/PE/STR/TL/0014-2010 (Rev-1) with Amdt. No 1 & 2.
51	Power Supply and EMU	70 AH VRLA cell	3	Specification No.: RDSO/PE/SPEC/AC/ 0009 -2014 (Rev. '2') and STR No. RDSO/PE/STR/TL/0014-2010 (Rev-1) with Amdt. No 1 & 2.
52	Quality Assurance Civil	Glue	3	
53	Quality Assurance Civil	Fabricated Crossings	3	
54	Quality Assurance Civil	H3C Class Electrodes (Minimum Life-50 GMT)	3	
55	Quality Assurance Civil	H3B Class Electrodes (minimum Life -35 GMT)	4	
56	Quality Assurance Civil	Fibre Glass Cloth Wooven Roving-360	3	
57	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
58	Quality Assurance Electrical	54 MVA, 220/2x27 kV, 50 Hz, ONAN, Scott Connected Traction Power Transformer	3	Spec: ETI/PSI/124(07/1995) with A&C Slip No.1 (Oct. 2016) STR: TI/STR/014 Rev. 2 DRG: Nil
59	Quality Assurance Electrical	8 MVA, 54/27 kV, 50 Hz Auto Transformer	4	Spec: ETI/PSI/125 (07/1997) with A&C Slip No.-1 STR: TI/STR/014 Rev. 2 with Amendment No.1 DRG: Nil

60	Quality Assurance Electrical	Cable Transit System with EPDM Rubber Modules	2	Spec: RDSO/2008/EL/SPEC/0067 (Rev '2') of January 2015 STR: RDSO/2014/EL/STR/0082 rev 0 DRG: Nil
61	Quality Assurance Electrical	11kV, 70 kN, (Ball & Socket type) Disc Insulator – 280 mm dia, CD-430mm(min.)	3	Spec: IS:731-1971 STR: Nil DRG: Nil
62	Quality Assurance Electrical	11kV, 120kN (Ball & Socket) Disc Insulator with 280mm dia CD 430mm(min.)	3	Spec: IS:731-1971 STR: Nil DRG: Nil
63	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
64	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
65	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)
66	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

67	Quality Assurance Electrical	30 MVA, 50 Hz, Single Phase, ONAN, Traction Power Transformer with On Load Tap Changer (110/27kV)	3	Current Spec No. TI/SPC/PSI/30TRN/1050 With A&C No 1 & 2 Revised Spec: TI/SPC/PSI/TRNPWR/3200 with cut off dated 01/04/2020) STR: TI/STR/014 Rev. 2 DRG: Nil
68	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 2STR: TI/STR/015 (Rev.0)DRG: Nil
69	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
70	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
71	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
72	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
73	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
74	Quality Assurance Electrical	245 kV Solid Core Post Insulator Assembly for 220 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

75	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
76	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
77	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
78	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
79	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
80	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
81	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
82	Quality Assurance Electrical	Galvanised Stranded Steel Traction Bond	4	Spec: TI/SPC/OHE/GALSTB/0040 STR: TI/STR/0031 DRG: Nil

83	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
84	Quality Assurance Electrical	Un-insulated Cadmium Copper Catenary Wire 125 mm ² (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
85	Quality Assurance Electrical	21.6/30.24 MVA, 50 Hz, Single Phase, ONAN/ONAF, Traction Power Transformer (66/27kV)	3	Spec No: ETI/PSI/11810/1993) with A/C slip 1 to 11
86	Quality Assurance Mechanical	High tensile centre buffer coupler & its components for Freight stock D) Knuckle Thrower	3	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
87	Quality Assurance Mechanical	Lubricated Taper Plug Valves 80mm	3	. li. WD-05-TPV-91 Amnd No. 1 of Apr'92, W/TF-88
88	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; 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
89	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
90	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, Sujana Industries drawing No40704 Alt- B.5

91	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
92	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
93	Quality Assurance Mechanical	Snubber assembly for locomotives	3	SKDL 2089A
94	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;))
95	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)
96	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)
97	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
98	Quality Assurance (Singal &Tele)	Auto Dialing System From Emergency Socket	1	Spec: IRS:S-83/2007 Amd-1 & 2 STR: TCQ-0032 DRG: Nil
99	Quality Assurance (Singal &Tele)	Emergency Control Room Equipment	1	Spec: IRS TC:61-93 (Amd.1) STR: TCQ-0020 DRG: Nil

100	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
101	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
102	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 32. STR - TCQ 00283. DRG - NIL
103	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
104	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
105	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
106	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
107	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

108	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
109	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
110	Quality Assurance (Singal &Tele)	Magneto Telephone	3	Spec: IRS TC: 36-97 (Amd.1 & 2)STR: TCQ 0009DRG: Nil
111	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
112	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
113	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
114	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
115	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

116	Quality Assurance (Singal &Tele)	SITEL' Primary Cells (Dry, Lachlanche Type) For Railway S&T Installations	4	IRS:S-95/96 (Amd. 1)
117	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
118	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 2.02. STR - SIQ 02053. DRG - SA 23001 A/M ,SA 23002 A/M, SA 23003 A/M, SA23401-06, SA23840, SA24351
119	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
120	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
121	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
122	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
123	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

124	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
125	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
126	Signal	Electronic Interlocking (i)(RDSO/SPN/192/2005 Ver 1.0) (ii) RDSO/SPN/203/2011	2	Spec: RDSO/SPN/203/2011 Ver.1.0STR: SIQ 0001 (Ver.2)DRG: NIL
127	Signal	High Availability Single Section Digital Axle Counter	2	Spec: RDSO/SPN/177/2012 (Ver.3) STR: NIL DRG: NIL
128	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
129	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
130	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
131	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
132	Signal	Advanced Auxiliary Warning System (AAWS)	2	Spec:RDSO/SPN/213/2014 Ver.1.0 STR: SIQ0001 Ver. 2 DRG: Nil
133	Signal	Train Collision Avoidance System (TCAS)	3	Spec: RDSO/SPN/196/2012 Ver.3.2 STR: SIQ 0001 Ver. 2.0 DRG: Nil

134	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
135	Signal	Audio Frequency Track Circuit	4	1. Spec. No. - RDSO/SPN/146/2001 2. STR - SIQ-0001 Ver.1 3. DRG - NIL
136	Telecommunication	Electronic LC Gate Telephone System	4	1. Spec no. - RDSO/TC/51-2011 rev 3.0 Amdt. 12. STR-TCQ_0113 ver. 03. DRG.- Nil
137	Telecommunication	Voice Data Logger/ Monitor for Control Circuits	1	Spec: RDSO/SPN/TC/38/2002 (Rev.1.1) Amdment No.- 1 & 2 STR: TCQ 0105 DRG: Nil
138	Telecommunication	Control Communication Equipment for OFC Using 2-Wire Telephone.	3	1. Spec. No. -RDSO/SPN/TC/66/2007 (Amendment No. 1, 2 & 3) 2. STR - TCQ 0125 3. DRG - NIL
139	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
140	Telecommunication	Emergency Socket Box Of FRP Material	3	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
141	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
142	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

143	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
144	Traction Installation	Shunt Capacitor	2	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
145	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
146	Traction Installation	25 Kv Double Pole Vacuum Interrupters	2	1. Spec no. - TI/SPC/PSI/LVCBIN/0120 (12/13) Rev-0 With A&C - 12. STR- TI/STR/015 Rev.013. DRG.- Nil
147	Traction Installation	25 Kv Double Pole Vacuum Circuit Breaker	2	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
148	Traction Installation	Converter Oil for 3 phase locomotives	1	1. Spec no. -IEC: 60296-2003 and CLW Spec.No. CLW/ES/3/0172(Latest and RDSO requirement) 2. STR- TI/STR/013 Rev.03 3. DRG.- Nil
149	Traction Installation	30 / 42 MVA, 50 Hz, Single Phase, ONAN/ONAF Traction Power Transformer (220/27 KV)	3	1. Spec no. -IEC: 60296-2003 and CLW Spec.No. CLW/ES/3/0172(Latest and RDSO requirement) 2. STR- TI/STR/013 Rev.03 3. DRG.- Nil
150	Traction Installation	25 Kv Composite section Insulator (1050 mm CD)	1	1. Spec no. -TI/SPC/OHE/INSCOM/1071 Rev.1 2. STR- TI/STR/006 Rev.04 3. DRG.- Nil

151	Traction Installation	Panto Flash Over Protection Relay for 25 kV AC single phase 50Hz traction system	2	1. Spec no. -TI/SPC/PSI/PROTCT/2983 with A & C Slip No.1 2. STR- TI/STR/001 Rev.02 3. DRG.- Nil
152	Traction Installation	Delta-I type high resistive fault selective relay for 25 kV AC single phase 50Hz traction system	2	1. Spec no. -TI/SPC/PSI/PROTCT/1982 with A & C Slip No.1 & 2 2. STR- TI/STR/001 Rev.02 3. DRG.- Nil
153	Traction Installation	Microprocessor based Numerical Integrated Feeder Protection Module comprising DPR, OCR, WPC, PTFE & Auto Reclosure Relay for 25 kV AC Single phase 50 Hz Traction Sub-station	2	1. Spec no. -TI/SPC/PSI/PROTCT/5070 (Rev.1) with A&C Slip No. 1 2. STR- TI/STR/001 Rev.02 3. DRG.- Nil
154	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	1. Spec no. -TI/SPC/PSI/PROTCT/4050(10/2005) with A&C Slip No. 12. STR- TI/STR/001 Rev.02 & TI/STR/002 Rev.023. DRG.- Nil
155	Traction Installation	SCADA System Complete.	3	1. Spec no. -TI/SPC/RCC/SCADA/0130 (Rev.2) with A&C Slip No. 1 to 3 2. STR- TI/STR/028 Rev.1 3. DRG.- Nil
156	Traction Installation	Short Neutral Section Assembly (Phase Break)	3	1. Spec no. -TI/SPC/OHE /SNS/ 0000 Rev.-1 with A&C Slip No.1 2. STR- TI/STR/024 Rev.2 3. DRG.- Nil
157	Traction Installation	Higher diameter (22.5 mm to 26 mm dia.) Continuous Cast Copper (CCC) Wire Rod(Manufactured by South Wire Process)	2	1. Spec no. -ETI/OHE/65 (08/87) with A & C Slip No. 1 to 5 and ETI/OHE/76 (06/97) with A&C Slip 1,3,4,5,6,7,8,9 & 10 2. STR- TI/STR/025 (Rev 1) 3. DRG.- Nil

158	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	1. Spec no. -TI/SPC/PSI/PROTCT/6071 with A&C Slip No. 1 2. STR- TI/STR/001 Rev.02 & TI/STR/002 Rev.02 3. DRG.- Nil
159	Traction Installation	Series Reactor for Capacitor Bank Low loss	2	1. Spec no. -TI/SPC/PSI/FC&SR/0100 with A&C Slip No. 1 (Oct 2016) 2. STR- TI/STR/004 3. DRG.- ETI/PSI/702-1
160	Traction Installation	245 kV SF6 Circuit Breaker (Double Pole & Triple Pole)	3	1. Spec no. -TI/SPC/PSI/HVCB/0120 (June,2014) Rev.0 with A&C Slip No. 1 & 2 2. STR- TI/STR/015 Rev.1 3. DRG.- Nil
161	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	1. Spec no. -TI/SPC/PSI/PROTCT/7100(07/2012) with A&C Slip No.12. STR- TI/STR/001 Rev.02 & TI/STR/002 Rev.023. DRG.- Nil
162	Track Design 2	Reconditioning of cupped welded joints	1	
163	Track Design 2	Reconditioning of wheel burns/scabs	1	
164	Wagon	Automatic Twist Lock (ATL)	1	RDSO Document No. CONTR-01-MSG-ATL-2011 of Nov 2011 & envelope drg no. CONTR-9405-S/21
165	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
166	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)

167	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
168	Wagon	Friction wedge with specified range of C.O.F	4	RDSO specification CONTR-02-MISC-2007 and envelop drawing no. WX-10046
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