



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



No: 2025/RS(IC)/Misc./2

New Delhi, Dated: 29/04/2025

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

**Sub.: List of Must-change Items.**

Ref.: Railway Board letter no.: 2024/RS(G)/709/24 dated 10/01/2025.

During the review meeting conducted by Railway Board on 09/01/2025 with PCMMs of Zonal Railways regarding the availability of safety items (Record of Discussions of the meeting was issued vide letter under ref.), it was requested that a consolidated list of must-change items be provided, so that its availability position would be constantly monitored at zonal level.

2. In view of the above, a list of must-change items, forwarded by Electrical Directorate of Railway Board, along with PL No. and item description is attached herewith for necessary action.

Encl.: As above (in 90 pages)

(S.Natarajan)  
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Sr. Prof. (Material Management), NAIR, Vadodara, ED (Stores), RDSO, Lucknow  
Chief Commissioner, Railway Safety, Lucknow  
Zonal Railway Training Institute, Sukadia Circle, Udaipur

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All AMs, PEDs & Executive Directors of Railway Board.

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## MUST CHANGE ITEMS DURING TOH - CONVENTIONAL LOCOS

Sl. No.	PL No.	Description
1	25010797	LOCKING PLATE (PLAIN) FOR AXLE BOX TO DRG NO.TR/ACL/P/14-A
2	25010906	WEARING STRIP (TOP EQUALISING BEAM) FOR ROLLER BEARING AXLE BOX TO SR.RLY DRG/NO SR.LW.4.11.07.
3	25018097	CONICAL RUBBER THRUST PAD FOR AXLE BOX TO RDSO DRG.NO.SKDL 2308 ALT-1 AND SKDL 2309 ALT-NIL AND CONFORMING TO SPECIFICATION IRS R63-76.
4	25018206	LOCKING PLATE AS PER M/S.NEI DRG.NO.NEI-X-171 MOD.J PART NO.14 OR SIMILAR (ONE NUMBER CONSISTS OF FOUR SEGMENTS AS PER NEI DRG.NO.NEI-X-171 MOD J).
5	25018280	SEALING RING TO THROWER END COVER FOR AXLE BOX OF WAP-4 LOCOS AS PER M/s. NEI Drg.NO 92-4271C TO THEIR PART. NO.33.
6	25018292	FLAT BENDED COTTER 10 X 22 X 125mm LONG SIZE FOR WAG-7 LOCOS AS PER RDSO DRG.NO.SKVL-703 ALTERATION-2, REFERENCE-10.
7	25040698	SPRING PADS (HAPPY PADS) CONFORMING TO RDSO DRG. NO. SKVL-323 ALTERATION-1, AND SPECIFICATION NO.MP-O-40-99-01 (REV O2) OF OCTOBER 2008.
8	25040730	Snubber Assembly for BG (WDM2) Locos, RDSO Drg.No.SKDL-2089A Alt.No.3, Ref. Lett. A,B, C, D, E, F, G & J SKDL-2091A Ref.No.A, B, C, D, E & F Alt-7, SKDL-3231 Alt.2, SKDL-3232 Alt-2, SKDL-3465 Alt-5, SKDL - 3058, Alt a, SKDL - 3057 Alt. Nil, SKDL - 3069, Alt - Nil
9	25048168	SPRING HOLDER PLATE ASSEMBLY FABRICATED DESIGN TODRG.NO.SR.DEE/RS/ED/MECH-45 ALT.2 ITEM 1, 2 AND 3. MATERIAL: FOR ITEM 3, Mn STEEL AS PER IS 276-2000 (V TH REVISION OR LATEST) GRADR.I
10	25048193	SET OF POLYURETHANE SPRING PADS CONSISTING 1. HAPPY PAD FOR PRIMARY SUSPENSION OF WAP-4 LOCOS TO DRG.NO.SKVL-282 AND RDSO SPECIFICATION NO.MP.0.40.99.01 REV.02 OF OCTOBER 2008-48 NOS./SET. 2. HAPPY PAD FOR SECONDARY SUSPENSION OF WAP-4 LOCOS TO DRG.NO.SKVL-283 AND RDSO SPECIFICATION NO.MP.0.40.99.01 REV.02 OF OCTOBER 2008-32 NOS./SET.
11	25071002	FLEXIBLE HOSE ASSEMBLY FOR SAND EJECTOR TO CLW DRG.NO.0/3/65/402 REF.(C).
12	25071257	SAND HOSE 1" X 27" TO DRG.NO.DEE/RS/ED/MECH-25 ALTERATION-1
13	25100180	PIVOT LINER VERTICAL HALF TO CLW DRG.NO. 03/4/12/2 ALTERATION-3.
14	25100191	PIVOT LINER HORIZONTAL FOR WAP-4 LOCOS TO CLW DRG.NO.03/4/12/1 ALTERATION-4.
15	25100762	LOCKING PLATE AS PER CLW DRG.NO.06/4/15/19 ALT-4.
16	25102126	BONDED RUBBER SANDWICH MOUNTING UNIT TO RDSO DRG. NO. SKEL 4997, ALT-0 AND CONFIRMING TO RDSO SPECIFICATION NO.RDSO/2014/EL/SPEC/0115 (REV-'0') DATED 22.08.2014.
17	25102345	MODIFIED SAFETY BRACKET ASSEMBLY FOR EQUALISER SPRING SEAT TO RDSO Drg No SKEL-4609 Alt- O OF ANNEXURE IV OF SMI NO.ELRS/SMI/0225-2001/REV O DATED 15.01.2002.
18	25108955	MODIFIED SPRING LOADED OIL COVER FOR HITACHI TM GEARCASE TO S.RLY DRG.NO. TR/ACL/P/463.
19	25141030	BRAKE SHOE COMPLETE,NOMINAL SIZE TO IR PART NO D/BG-1753/X2, ALT.8 REF.NO 2 D/BG-1753/1,2 AND 3 AND RDSO MATERIAL SPECIFICATION NO M AND C/MTD/101/2007
20	25148059	SPRING FOR BRAKE RIGGING AS PER CLW DRG.NO. 03/4/19/59 ALT 3.
21	25148692	SPRING FOR BRAKE RIGGING TO CLW DRG.NO.03/4/19/7 ALTERATION-6.
22	25150029	RESILIENT MOUNTING PAD ASSEMBLY FOR ARNO TO CLW DRG.NO 05.3.32.331 ALT-5.
23	25160436	M-12 KIT (AS 657) FOR AIR DRYER OF M/S. TRIDENT MAKE USED IN AC LOCOS. AIR DRYER MODEL NO. LD 2000122 ONE SET CONSIST OF 06 ITEMS 14 NOS.
24	25167121	DIAPHRAM PNEUPHONIC HORN B 730 AND B 736 SIMILAR TO WSF.PAMP.AI.258.
25	25167376	OVERHAULING KIT FOR 3/8" LEVER OPERATED HORN VALVE TO RECON LHV PART NO.40041 AND 40049 EACH ONE NO OR AS PER ELBE PART NO. 5379 AND 5378 EACH ONE NO.
26	25167595	WIPER ARM AND BLADE ASSEMBLY TO ELGI PART NO.000416330.OR TO RECON DRG.NO. REC/W/1035/2 OR EQUIVALENT.
27	25167649	Overhauling Kit for Pipe Joint as RDSO specification IRS/R-48/88 SEC.1 AND SEC.5 GR.B. Consisting of 6 ITEMS. OD/ID/Thickness -QTY. 1) 26X16X2mm-50 NOS. 2) 28X19X2mm-100 NOS. 3) 34X23X2mm -200 NOS. 4) 40X29X2mm -250 NOS. 5) 50X36X2mm - 50 NOS. 6) 58X44X2mm - 80 NOS.

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Sl. No.	PL No.	Description
43	25187089	RUBBER KIT FOR SA 9 INDEPENDENT BRAKE VALVE CONSISTING OF 5 ITEMS (1)O RING TO WABCO CAT NO 531868 SKDP DRG NO 3031 SL NO 4= 5 NOS/SET (2) O RING TO WABCO CAT NO 564056 SKDP DRG NO 3031 SL NO 16=1 NO/SET (3) O RING TO WABCO CAT NO 523734 SKDP DRG NO 3031 SL NO 7=-2 NOS/SET . (4) PIPE BRACKET GASKET TO WABCO CAT NO 560009 SKDP DRG NO 3056 ALT.1= 1NO/SET (5) DIAPHRAGM TO WABCO CAT NO 526346 SKDP DRG NO 3052 ALT 1= 1NO/SET.
44	25187302	OVERHAULING KIT FOR C3W DISTRIBUTOR VALVE CONSISTING OF 43 ITEMS AS PER ENCLOSURE. (Rate to be quoted as per set).
45	25187363	RUBBER KIT FOR MU2B VALVE CONSISTING OF 2 ITEMS (1) `O` RING TO WABCO CAT NO 524614 SKDP DRG.NO.3031, SL.NO.6=7 NOS./SET (2) GASKET TO WABCO CAT NO 558987, SKDP DRG.NO.3058 ALT-1=01 NO./SET.
46	25187480	RUBBER KIT FOR A 9 AUTOMATIC BRAKE VALVE CONSISTING OF 8 ITEMS (1)" O "RING TO WABCO CAT NO 531868, SKDP DRG. NO. 3031 SL. NO.4= 2 NOS./SET (2)" O" RING TO WABCO CAT NO 526388 SKDP DRG. NO. 3031 SL. NO.5= 1 NO./SET (3) "O" RING TO WABCO CAT NO 524056 SKDP DRG. NO. 3031 SL. NO.16= 1 NO./SET (4) "O "RING TO WABCO CAT NO 524614 SKDP DRG. NO. 3031 SL. NO.6= 1 NO./SET (5) "O" RING TO WABCO CAT NO.523734 SKDP DRG. NO. 3031 SL. NO.7= 2 NOS./SET(6) SEAL SUPPLY VALVE TO WABCO CAT NO 557396 SKDP DRG. NO. 3044 = 1 NO./SET (7) DIAPHRAGM TO WABCO CAT NO 526346 SKDP-3052, ALT-1 1 NO./SET
47	25188355	OH KIT FOR 3/4" DUPLEX CHECK VALVE CONSISTING OF 3 ITEMS (1) PISTON PACKING-1 NO SIMILAR TO RECON PAMP NO A-102 REF-8. (II) VALVE RUBBER SEAT-1NO SIMILAR TO RECON PAMP NO A-102 REF-11. (III) CHECK VALVE SEAT-1 NO SIMILAR TO RECON PAMP NO A-102 REF-15.
48	25188367	RUBBER PART KIT FOR 1 1/4" BP/FP CUT OFF ANGLE COCK WITH VENT CONSISTING OF 03 ITEMS. 1. SEAL ITEM NO.7 OF RDSO DRG. NO. WD 88123-S-02, ALT.6 -2 NOS/KIT 2. "O" RING ITEM NO.5 OF RDSO DRG. NO. WD 88123-S-02, ALT.6 -1 NO./KIT. 3. "O" RING ITEM NO.6 OF RDSO DRG. NO. WD 88123-S-02, ALT.6 -2 NOS./KIT.
49	25200136	AOH Kit for Medha make speed sensor type T-813-M Consisting of below 07 items (1) Drive dog spring dowel part No:SP813232014-01 No. (2)External circlip with Shim part no.SP813232029-01 No.(3) Oil. Seal 16x32x7 part No.sp813411016-01 No. (4)Set of bearing for T-813-M (02 Nos) Part no SP 813413018-01 set (5)SS Flange Gasket part NoSP813421023 -01 No (6)Cable SS-Cover –M-Gasket Part No.SP913422008-01 No (7)Assembly Hardware set of SS Part No.SP -813432028 -01 set
50	25200513	AOH KIT FOR LAXVEN 2000E2 RECORDER, INDICATOR TACHO GENERATOR AND JUNCTION BOX AS PER ANNEXURE
51	25208330	AOH kit for Overhauling of pulse generator as per AAL pt. no 1900007200, each set consisting of following spares as under:- Sr.No.,Description AAL Pt. No.Qty./Set (1) Oil seal dia 20/40x6 8.3010.138/01 1 No. (2) Gasket with O-Ring 1915018977 1 No.( Old Pt.No.8.3010.188) (3) "O" Rign dia 39/42x1.5 8.3010.503 1 No. (4) Gasket 1919512577 1 No. (5) Spring washer dia 10.2 8.1830.222/14 4 Nos.
52	25218074	Silicone Sealant RTV 1080,310 Gms Tube Similar to M/s SEIL Part No. 5380740
53	25236350	Hose flexible for Auxiliary Compressor to CLW Drg No 0/4/65/59 Item B or 0/3/65/402 Ref.B.
54	25238292	1"x 34" Hose coupling type UIC as per CLW Drg No:0/3/65/66 Alt.5.
55	25238413	HIGH PRESSURE FLEXIBLE HOSE CONNECTION OD-20MM,ID-8.0MM, LENGTH-590MM (EXCLUDING THE END FITTINGS) WITH BOTH END 1/2" BSP SURVIVAL NUT AND WITH PLAIN SEAL RUBBER WASHER HOSE AS PER GRADE SAE 100 R1 WITH WORKING PRESSURE 20 KG.
56	25238425	HOSE CONNECTION FOR MU SIZE 1"X 24" TYPE UIC TO CLW DRG.NO 0/3/65/66.Alt-5.
57	25238449	HOSE FOR MAIN COMPRESSOR AIR DELIVERY TO S.RLY.DRG. NO.TRS/ACL/P/247.
58	25238450	BANJO (FLEXIBLE RUBBER) HOSE WITH EMBEDED WIRE BRAIDING TO SAE 100 R1 WITH WORKING PRESSURE OF 20 KG/SQ.CM AND TEMPERATURE/OIL RESISTIVE. THE RUBBER HOSE WITH ID 6MM AND OD 12MM AND WITH ONE END 1/4" BSP FEMALE SWIVEL SPHERICAL SEATING FITMENTS AND THE OTHER END WITH BANJO WIPER SERVO MOTOR CONNECTOR SUITABLE FOR BG ELECTRICAL LOCOMOTIVES. OVERALL LENGTH OF THE HOSE 700mm.
59	25238589	HOSE COUPLING 1 1/4" X 26" FOR FEED PIPE TO RDSO DRAWING.NO.WD- 81027-S-01 Alt.10.

## MUST CHANGE ITEMS DURING TOH - CONVENTIONAL LOCOS

Sl. No.	PL No.	Description
60	25250103	OVERHAULING KIT FOR 8" X 8" BRAKE CYLINDER TYPE UAH CONSISTING OF 7 ITEMS TO DRG NO SR-LW-2-19-11 ALT-1. (1) STRAINER ASSEMBLY- 1 NO. REF NO 9. (2) PISTON HEAD DISC- 1 NO. REF NO 11. (3) ANTI-RATTLER RING- 1NO. REF NO 12. (4) PISTON ROD PACKING- 1NO REF NO 13. (5) RING- 1NO. REF NO 14. (6) GASKET-1NO.REF NO 15. (7) LUBRICATED PAD 640 X 4 X 10- 1NO REF NO 26.
61	25250152	GASKET(RUBBER)FOR HEAD LIGHT AS PER DRG.NO. TRS/ACL/P/347 Alt-3.
62	25250188	DOOR SEAL (SEALING RUBBER FOR CAB DOOR) AS PER CLW DRG NO.1209-09-433-070, (4.5 METERS LONG ) RESERVED FOR CLW APPROVED SOURCES ONLY
63	25250814	Rubber Joint for Front Window Glass As per Drg No:B/TRS/RC/416/Alt.1 Shore Hardness:65-70 for AC LOCOS with Free Lenght 3300MM.
64	25250826	Rubber Beading WAP4 modified look out glass. Set consists of 02 items. 1) look out glass packing (inner side) for WAP4/WAG9 Loco as per Drg. TRS/ACL/P /617, Qty – 3 Meters / Set. 2) Look out glass packing (Outer side) for WAP4/WAG9 Loco as per Drg. TRS/ACL/P /618, Qty – 3 Meters / Set.
65	25250851	JOINT RUBBER FOR FRONT GLASS TO DRG. NO. 01/4/35/73 ALTERATION-9.
66	25251831	MODIFIED RUBBER SEAL FOR ROOF JOINT AS PER Sr.DEE/RS/AJJ DRG.NO.TRS/ACL/P/587 ALTERATION-NIL.
67	25253062	RUBBER JOINT FOR TRANSFORMER TO CLW DRG. NO. 02/4/32/143 OR ELW /BSL/4/F913 C and D NO.311/03.
68	25253300	PACKING FELT FOR AIR DUCT ARRGT.
69	25254418	OVERHAULING KIT FOR EP CONTACTOR SERVOMOTOR, LINE/SHUNTING CONTACTOR CONSISTING OF (A) PISTON CUP-1 NO TO DRG NO. 4 TWD/111/073 (b) FELT RING-1 NO DRG 4 TWD/111/074 (C) GASKET TRIANGULAR SHAPE-2 NOS DRG NO 4 TWD/111/0020 (D) GASKET SERVO MOTOR -1 NO TO DRG NO. 4TWD/111/019.
70	25256701	SET OF OVERHAULING KIT FOR REVERSOR SERVOMOTOR CONSISTING OF FOLLOWING FOUR ITEMS 1)RUBBER GROMET TO CLW DRG NO.4 TWD.101.013/ Alt 4 02 Nos 2 ) GASKET Ref NO 1 to CLW DrgNo3TWD.102.034Alt-1 - 02 NOS . 3) GASKET Ref no .2.to CLW Drg NO 3 TWD. 102.034 Alt-1 - 02 NOS 4) PISTON CUP TO CLW DRG NO 4 TWD .101.035 Alt3.-02 NOS
71	25257857	INNER SEALING RING FOR AXLE BOX FRONT END COVER TO DRG.NO.TRS/ACL/P/243.
72	25258011	RUBBER PROFILE FOR SAFETY GLASS TO DRG NO. 01/3/43/9 REF 2
73	25258035	SET OF GASKET FOR TRACTION MOTOR CONSISTING OF 2 ITEMS. (1) GASKET FOR TRACTION MOTOR BOTTOM INSPECTION COVER AS PER CLW DRG NO. 3TWD/092/460 ALT (3) SHEET NO.9 OF 12-1 NO/SET (2) GASKET FOR TRACTION MOTOR TERMINAL BOX 0.8 MM THICK AS PER DRG.NO 3TWD/092/131 ALT 4 OR LATEST-1NO./SET.
74	25258047	SET OF RUBBER PACKING FOR LOCO CORRIDOR DOOR AS PER S.RLY DRG NO.TRS/ACL/P/264 CONSISTING OF ITEM NO. 1-8 NOS/SET AND ITEM NO 2-8 NOS/SET.
75	25258059	PACKING FOR INSPECTION COVER FOR HITACHI TRACTION MOTOR TYPE TO DRG NO 10S-778-684 Rev 'O'.
76	25258138	SANDING HOSE 1" x 33" TO S.RLY. DRG. NO. SR.LW.3.65.05 ALT-1.
77	25258175	Set of 'O'Ring/GASKET FOR MPH AS PER DRAWING NO. Sr.DEE/RS/ED/ELEC 119, CONSISTING OF 02 ITEMS/03 NOS.
78	25259131	GASKET FOR CP DELIVERY FLANGE TO S.RLY DRG TRS/ACL/P/351.
79	25259210	RUBBER KIT FOR N1 REDUCING VALVE CONSISTING OF 5 ITEMS 1. 'O' RING SIMILAR TO Wabco PART NO 531868 -2 NOS/SET (2) DIAPHRAGM Wabco PART NO 526346 -1 NO/SET (3) 'O' RING Wabco PART NO 564056 -1 NO/SET (4) GASKET Wabco PART NO 558515 - 2 Nos/set (5) DIRT PROTECTOR WABCO PART NO. 564855-1 NO./SET.
80	25259283	GASKET FOR BRAKE CYLINDER TO DRG NO:SR-LW-4-20-03.
81	25259313	OVERHAULING RUBBER KIT FOR R6 RELAY VALVE (TYPE SDW-1) CONSISTING OF 9 ITEMS (1) "O" RING TO PART NO. J/72070/23-1 NO./SET. (2) "O" RING TO PART NO. J72070/18-1 NO./SET. (3) "O" RING TO PART NO. J72059/12-1 NO./SET. (4) DIAPHRAGM TO PART NO.SD 9005/04-1 NO./SET. (5) WASHER TO PART NO.A 70115/60-4 NOS./SET. (6) RUBBER FLAP TO PART NO.SD 9005/08-1 NO./SET. (7) DIAPHRAGM FOLLOWER AND VALVE SEAT TO PART NO.SD 9005/03-1 NO./SET. (8) WASHER TO PART NO. A 73211/042-1 NO./SET. (9) INLET EXHAUST VALVE TO PART NO. J 74840/1-1 NO./SET.

## MUST CHANGE ITEMS DURING TOH - CONVENTIONAL LOCOS

Sl. No.	PL No.	Description
82	25259350	NITRILE BONDED RUBBER CORK SHEET TYPE RC 70C VERY GOOD OIL RESISTANCE FOR MAIN TRANSFORMER THICKNESS 3MM OF SIZE 900X600MM TO IS SPECN 4253/PART II-1980(REAFFIRMED 1999)EDITION 2.3(1993-11).
83	25259362	NITRILE BONDED RUBBERISED CORK SHEET TYPE RC 70C VERY GOOD OIL RESISTANCE FOR MAIN TRANSFORMER THICKNESS 6MM OF SIZE 900X600MM TO IS SPECN 4253/PART II -1980(REAFFIRMED 1999) EDITION 2.3(1993-11).
84	25259416	RUBBER PROFILE WITH KEY FOR CORRIDOR OVAL GLASS IN AC LOCOMOTIVES TO DRG.NO. C/ELS/LGD/RC/4/4.
85	25308063	BOLT HEX HEAD M24 X 130 TL 90 STEEL TO IS: 1364/2002 PART1, GRADE 8.8 WITH SUITABLE CASTLE NUT IS: 2232 AND SPRING WASHER TO IS: 3063. ONE HOLE OF 5MM DIA TO BE DRILLED AT A DISTANCE OF 10MM FROM THE THREADED END OF THE BOLT.
86	25308221	BOLT FOR HITACHI GEAR CASE M 30 X 190MM AS PER DEE/RS/ED/MECH /8.99 WITH SUITABLE CASTLE NUT AS PER IS: 2232/67 GRADE 8 SPLIT PIN TO SIZE 6X60MM AS PER IS: 549 AND SPRING WASHER AS PER IS: 3063-B. (FOR GEAR CASE FIXING).
87	25308233	BOLT FOR GEAR CASE M36 X 90MM TO S.RLY DRG.NO.DEE/RS/ED/MECH/5.0 (FOR GEAR CASE FIXING).
88	25308257	BOLT HEX HEAD M12 X 55 IS: 1364/2002 GRADE 8.8. (ONLY LPS,TVS,GKW,VIF,UNK, OR OTHER CLW APPROVED MAKES ARE ACCEPTABLE).
89	25308282	BOLT HEX HEAD M12 X 85 TO IS: 1364/2002 CLASS P 8.8. (ONLY LPS,TVS,GKW,VIF,UNK, OR OTHER CLW APPROVED MAKES ARE ACCEPTABLE)
90	25320660	SET OF LOCKING LUGS AND SPLIT PIN AS GIVEN BELOW:- 1. LOCKING LUGS AS PER DRG. NO: SR.DEE/RS/ED/MECH-38 - 02 NO/SET. 2. SPLIT PIN 8X120MM TO IS 549-01 NO/SET
91	25327082	Pin ( Vertical ) for sandwitch mounting as per CLW DRG NO.01/3/25/5, ALT-8
92	25328025	MODIFIED TIE PIN ASSEMBLY TO RDSO DRG NO SKDL 3273 ALT-8 REF.NO.A,B,C & D COMPLETE.
93	25328591	SPLIT PIN 5 X 56 STEEL IS 549/1974.
94	25328888	KEEPER PIN TO CLW DRG.NO.06.4.25.5.
95	25335662	HIGH TENSILE SCREW HEX HEAD FULLY THREADED FOR CLAMPING PLATE M 20 X 50 LONG FOR AXLE BOX OF WAM-4 LOCOS AS PER IS:1364 PART-2/2002 WITH PROPERTY CLASS 8.8.(ONLY LPS/TVS.GKW.VIF,UNK, OR OTHER CLW APPROVED MAKES ARE REQUIRED)
96	25358145	SPRING WASHER FOR M36 BOLT ID 37 mm OD 56 mm THICK 6.5 mm TO IS 3063/80.
97	25378569	MODIFIED LUBRICATED BUSH TO SIZE 75mm X 65mm X 20mm LONG TO RDSO DRG NO. SKVL-703 ALTERATION-2, REFERENCE-4.
98	25378600	MODIFIED LUBRICATED BUSH TO SIZE 75MM X 65MM X 32MM LONG TO RDSO DRG.NO SKVL-703 ALTERATION-2, REFERENCE 5
99	25488016	SINTERED BRONZE FILTER ELEMENTS WITH GRAIN SIZE 400K WITH END SEALING 'O' RING, STAINLESS STEEL TIE ROD AND PLAIN WASHER FOR EXISTING 'Y' TYPE STRAINER TO RDSO DRG.NO.CG-K 5031 ALT-1.
100	25488089	OVERHAULING KIT FOR FINE FILTER COMPRESSED OIL FILTER MODEL.FF/10-1 PART NO.65101-1001,1002,1003 AND 1004 CONSISTS OF 04 ITEMS 1.NEOPRENE RUBBER "O" RING - 1 NO. 2. NEOPRENE RUBBER WASHER - 2 NOS. 3.FINE FILTER ELEMENT - 01 NO. 4.NEOPRENE RUBBER - 1 NO.
101	25488247	POROUS CERAMIC FILTER ELEMENT GRADE 10, 50/20 MM DIA, 135+/-3MM LONG,5 MICRONS NOMINAL,MADE OUT OF FUSED ALUMINA WITH 2 NOS OF WASHERS & ONE NO OF SPECIAL O RING FOR MAIN SHELL.
102	25517170	Valve plate for Auxiliary Compressor type CRC 150 as per ELGI Part No. 000330950
103	25517351	GASKET SET FOR AUXILIARY COMPRESSOR CONSISTING OF 5 items (1) PACKING C/CASE TO MOTOR 1 No TO ELGI PART NO 000411630 (2) COPPER ASB WASHER 2 Nos TO ELGI PART NO 000521950 (3) PACKING C/CASE TO CYLINDER - 1 No TO ELGI PART NO 00041164A (4) PACKING CYLINDER TO VALVE FLAT - 1 No TO ELGI PART NO 00041152A (5) PACKING CYLINDER HEAD TO VALVE FLAT-1 NO TO ELGI PARTNO 00041153A OR EQUIVALENT.

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## MUST CHANGE ITEMS DURING TOH - CONVENTIONAL LOCOS

Sl. No.	PL No.	Description
121	25702452	SWITCH PUSH BUTTON GREEN COLOUR WITH CONTACT ELEMENT 1NO + 1NC TO BCH MAKE PUSH BUTTON TYPE TSFB-G+050 N1.
122	25702555	SWITCH PUSH BUTTON RED COLOUR (BP1DJ) WITH 2NC CONTACT BLOCK BCH TYPE CAT NO.TSFB-R 050N3
123	25703808	AUXILIARY SWITCH ASSEMBLY FOR REVERSOR AND MASTER CONTROLLER TO CLW DRG. NO 4TWD-101-138 ALT-6 (OUTER SHEET) AND CONFORMING TO SPECIFICATION 4 TES-111-028 ALT-1.
124	25718058	AOH REPLACEMENT KIT FOR SINGLE BOTTLE VCB OF M/S.SCHNEIDER ELECTRIC INFRASTRUCTURE LTD., VADODARA TYPE 22 CB CONSISTING OF 15 ITEMS TO THIER PART NO.5510740.
125	25718095	AOH replacement kit (4300007100/30) for Single bottle VCB of M/s.AAL type VCBA-25.10 Tr, Consist of 05 items (1) Kit of filter cartridge Part.No.SG-300140-R 0001,- 01Set/Set, (1.1) Filter element 40um- Part.No.430001 4000, Qty – 01 No/Set, (1.2) 'O' ring Part.No.69.211.215, Qty-01 No/Set, (2) Ring type joint Part.No.HSBA 432577P0001, - 01 No, (3) Kit for side cover LHS & RHS Part.No.4300007100/23, - 01 Set/Set, (3.1) 'O' ring – Part.No.4306057477, Qty-02 Nos/Set, (3.2) Anti breaking screw M6 x 20 Part.No.SG300120 P00 01, Qty-08 Nos/Set, (3.3) Elastic washer M6 Part.No.9AVA 330-11, Qty-08 Nos/Set. (4) Packing Ring Part.No.SG300073P0002, - 01No/Set, (5) 'O' Ring for fixing pressure regulator assembly to reservoir Part.No. HSBA432095 POO26, - 01 No/Set.
126	25728222	Self Fusing tape 0.76MM Thick X 25MM Width ,9 Meters Length .Make P966 Permacel/Stanvac (W963 Plysafe) only.
127	25728258	SEALANT FOR THE PURPOSE OF PREVENTING WATER LEAKAGES IN LOCOMOTIVES CONFORMING TO CLW SPECN. CLW/ES/3/0650.
128	25780153	SPARE FUSE LINK HRC 35 AMPS/100V DC BOTTLE TYPE TO CLW SPECIFICATION CLW/ES/F8 ALT.E, TYPE F-35 AND TO IS: 13703-1993.
129	25780256	HRC FUSE 16AMPS 100V DC BOTTLE TYPE CONSISTS OF (1) FUSE BASE, (2) FUSE LINK, (3) FUSE CARRIER (4) GAUGE PIECE (5) COLLAR RING TO CLW SPECIFICATION CLW/ES/F8 AND TO CLW DRG.NO.CLW/ES/SK-1/F8 TYPE A 16.
130	25780451	SPARE FUSE LINK HRC 16 AMPS/100V BOTTLE TYPE DC TO CLW SPECIFICATION CLW/ES/F8 ALT.E, TYPE F-16 AND TO IS: 13703/1993.
131	25780529	HRC FUSE 35 AMPS/100V DC BOTTLE TYPE CONSISTS OF (1)FUSE BASE (2) FUSE LINK. (3) FUSE CARRIER. (4) GUAGE PIECE. (5) COLLAR RING TO CLW SPECIFICATION CLW/ES/F8 ALT.E, & TO CLW DRG. NO.CLW/ES/SK-1/F8 TYPE A-35 AND CONFORMING TO IS: 13703-1993.
132	25780657	HRC FUSE 6 AMPS,220V AC TYPE A6 CONSISTS OF FUSE BASE,FUSE LINK 6 AMPS,FUSE CARRIER, GAUGE PIECE AND COLLOR RING CLW SPECN. CLW/ES/F8 AND CLW DRG.NO .CLW/ES/SK-1/F-8 TYPE A6.
133	25781054	HRC FUSE 6 AMPS/100 DC bottle type consists of (1) Fuse base. (2) Fuse Link. (3) Fuse carrier. (4) Gauge piece. (5) Collar ring to CLW's Specn. No. CLW/ES/F8 alt D type F6.
134	25870257	SET OF ITEMS FOR AOH KIT FOR ROTEX MAGNET VALVE EP VALVE MODEL NO.3327 CONSISTING OF 09 ITEMS AS FOLLOWS. 1). VALVE SPRING (VENTIL FEEDER) PT .16-1 NO. 2).KOLBEN (PISTON) O RING - PT. 18 - 01 NO. 3). SETA O RING PT.19- 04 NOS. 4). BODY O RING - PT.20-02 NOS. 5).PILOT O RING PT. 21 - 03 NOS. 6). PLUNGER ASSEMBLY-PT.30 - 01 NO. 7). ADOPTER RING PT.83- 03 NOS.8). TUBE O RING - PT.174- 02 NOS. 9). PILOT VALVE WITHOUT COIL - PT.61- 01 NO.
135	25877203	OVERHAULING KIT FOR ROTEX MAGNET VALVE SR 3038(OLD MODEL NO SR 231 NW 10) CONSISTING OF 11 ITEMS SIMILAR TO RECON DRG NO REC/RMV/1011 ALT-4 AS FOLLOWS (1) O RING TO RECON REF NO 0I-2Nos/SET (2) O RING TO RECON REF NO 09 -2 NOS/SET (3) O RING TO RECON REF NO 10-2NOS/SET (4)O RING TO RECON REF NO 15-1 NO/SET (5)O RING TO RECON REF NO 16-1 NO./SET (6)O RING TO RECON REF NO 17 -1 NO/SET (7)SEAL TO RECON REF NO 19 -1NO/SET (8)SEAL TO RECON REF NO 24-1NO/SET (9) O RING TO RECON REF NO 29 -1NO/SET. (10)O RING TO RECON REF NO 39-1NO/SET (11)O RING TO RECON REF NO 45-1NO/SET.
136	25878360	SET OF SPARES FOR NC-4 VALVE OF TYPE 3103 C OF M/S. ROTEX MAKE SET CONSISTING OF SIX ITEMS. SET DETAILS:1) BODY "O" RING, PART NO.20-01 NO/SET 2) MA "O" RING PART NO .22-01 NO/SET 3) GUIDE "O" RING PART NO.32-01 NO/SET 4) COIL GASKET, PART NO.35-01 NO/SET 5) DIAPHRAGM PART NO.50-01 NO/SET 6) PLUNGER ASSEMBLY PART NO.30(30/1 TO 30/8)-1 NO/SET.

## MUST CHANGE ITEMS DURING TOH - CONVENTIONAL LOCOS

Sl. No.	PL No.	Description
137	25880378	RUBBER STOP FOR AM-12 PANTOGRAPH TO SIL OLD PART NO. SOOO195/SIL NEW PART NO. S0220110201 OR TO CONTRANSYS PART NO. CO130 OR GENERAL STORES DRG.NO.GSEC/PANTO.051 OR SIMILAR.
138	25881206	Top Mounting Fitting Assembly Part A AND Part B EACH 1 NO per set ALONG WITH BUSH, SHUNT, BIMETAL WASHER & HARDWARES TO SIL Old Part No SOOO277/New Part No S0221115401 (Part A) AND New Part No S0221115402 (Part B) or to Contransys Part No. CO1520 or Concept Drg.No. Top Mounting Part-A Drg.No.0101091, Top Mounting Part-B Drg.No.0101093, Bimetal washer Drg.No.0103072, Shunt Drg.No.0103032, Bush Drg.No.0103095 or its equivalent of GSEC.
139	25881449	Spring for AM-12 Pantograph to SIL Old Part No SOOO301/SIL New part No S0221125901 or to Contransys Part No CO15660 or to General Stores and Engineering Co. Drg.No.GSEC/PANTO/061, WITH STIFFNESS 0.5 +/- 5 percent KG/MM AS PER RDSO MODIFICATION SHEET NO ELRS/MS/0333 REV-O.
140	25881589	METALISED CARBON STRIPS FOR AC PANTOGRAPH TYPE AM-12 AS PER RDSO DRG.NO.SKEL-4303 REV 6 AND CONFORMING TO RDSO SPECIFICATION RDSO/2009/EL/SPEC/0097 REV.'1' OF SEPTEMBER 2013.
141	25881747	Piston Packing Ring for AM-12 Pantograph to SIL Old Part No SOOO331/SIL New part No S0221129100 or to Contransys Part No CO1870.
142	25881978	OVERHAULING KIT FOR PANTOGRAPH CONSISTING OF 4 ITEMS. 1. JOINT FOR VALVE TO SIL OLD PART NO S000354/NEW PART NO.S0220131901-1 NO. OR CONTRANSYS PART.NO.CO19130-1 NO. 2. PISTON RING TO SIL OLD PART NO. SOOO356/NEW PART NO.S0220132101-1 NO. OR CONTRANSYS PART.NO.CO1960-1 NO. 3. JOINT TO SIL OLD PART NO.S000361/NEW PART NO.S0220132601-1 NO. OR CONTRANSYS PART.NO.CO19100-1 NO. 4. RING GASKET TO SIL OLD PART NO. SOOO364/NEW PART NO.S0220132201-1 NO. OR CONTRANSYS PART NO CO1930.
143	25888067	AOH KIT FOR AM-12/IR-01/PAN-01 PANTOGRAPH VIDE TECHNICAL CIRCULER NO. RDSO/2007/EL/TC/0094 REV (0) DT. 08.06.2007. EACH SET CONSISTING OF 35 ITEMS AS PER ANNEXURE'A'.
144	25890244	AUXILIARY SWITCH ASSEMBLY COMPLETE (EMC) TO CLW DRG NO.2TWD-291-053/2 CONSISTING OF 2NO+1NC AND CONFORMING TO CLW SPECN.NO.4 TES.111.028 ALT-1.
145	25897020	ARNO STARTING CONTACTS TO DRG.NO PD/PWP/4TWD/CT-001/ALT-2 CONSISTING OF (1) FIXED CONTACT WITH TIP (SILVER SOLDERED) (2) MOBILE CONTACT TIP.
146	25910632	Shunt for AM-12 Pantograph Pantograph to SIL Old Part No. SOOO276/SIL New Part No.S0220133203 and to Contransys Part No CO320 or to Concept Drg.No.0103032 or to General Stores and Engineering Co. Kolkata Drg.No.GSE/PANTO/105.
147	25948283	SET OF FIXED AND MOBILE CONTACTS FOR EM CONTACTORS TYPE CBA-C-55C-64 TO CLW DRG NO 3TWD/291/004/ SHEET 2 ALT-12 AND 3TWD-291-003/ SHEET 4 ALT 8 AND CONFORMING TO CLW SPEC.NO.4TES.291.001 ALT-6.
148	25948301	TEFLON SPACER FOR HITACHI BRUSH HOLDER
149	25948570	LINER FOR SUSPENSION OF HITACHI TRACTION MOTOR TYPE HS15250A AS PER HITACHI DRAWING NO. 10S.813.325 ALT(I) (IS 276-Mn Steel liner).
150	25949226	SET OF LOCKING PLATE FOR HITACHI TRACTION MOTOR CONSISTING OF 2 ITEMS 1)PINION LOCKING PLATE AS PER DRG NO.TRS/ACL/P/545-2 NOS/SET. 2)TRIANGULAR LOCK PLATE FOR HITACHI TM AS PER DRG NO.TRS/ACL/P/198 ALT 1-1 NO./SET.
151	25960830	OVERHAULING KIT FOR NC4 VALVE CONSISTING OF RECON DRAWING NO.REC/EV/1027.(1)NYLON SPINDLE TO RECON REF.NO.2-1 NO. OR TO CLW DRG.NO.4TWD.111.118 SHEET NO.19 QTY.-1 NO. (2) SPRING TO RECON REF.NO.11-1 NO. OR TO CLW DRG.NO.4TWD.111.118 SHEET NO.11 QTY.-1 NO. (3) COPPER WASHER TO RECON REF.NO.13-1 NO. OR TO CLW DRG.NO.4TWD.111.118 SHEET NO.18 QTY.-1 NO. (4) INSULATING WASHER TO RECON REF.NO.18-1 NO. OR TO CLW DRG.NO.NIL, DIMENSION 51x17x0.7 mm THICK QTY.-1 NO. (5) CIRCLIP 3.2 DIA TO RECON REF.NO.23-1 NO. OR TO CLW DRG.NO.NIL DIMENSION 03.2, QTY.-1 NO. (6) LOWER VALVE ASSEMBLY TO RECON REF.NO.14-
152	25963247	SPRING FOR MOTOR CONTACTOR DRG.NO.4TWD-112-029A.ALT 3.
153	25964008	AUXILARY CONTACT AND SUPPORT ASSEMBLY WITH SIX BLOCK SWITCH ASSEMBLY FOR MOTOR CONTACTOR AS PER CLW Drg.No.4TWD.112.090 ALTERATION-5. (SHEET NO.0) AND TO SPECIFICATION. 4TES.111.028 ALT-1.

Sl. No.	PL No.	Description
154	25968087	Set of fixed and mobile contacts for line contactor 1500 Amps contacts to Drg No.3TWD/112/010A Alt-4 and Drg. No. 3TWD/112/116A Alt- 4 and to CLW Specification 4TES.111.029 Alt-2.
155	29160613	Overhauling kit for Either M/s. Electromech make or M/s. Knorr Bremse Make Wiper Motor Operating Valve (M/s. Electromech's Make R-12 & M/s. Knorr Bremse Make NR-12R) As Per Annexure. One Set Comprising of 17 Items in 30 Nos.
156	29161058	SET OF WIPER ARM COMPLETE LH & RH FOR WAP – 7 & WAG-9 (3 PHASE) CLASS OF LOCOMOTIVES. AS PER CLW SPECN.NO.CLW/MS/3/ 050 ALT-6
157	29161060	Wiper blade assembly for Electric Locomotive as per CLW Spec.No. CLW/MS/3/050, Alt-6 & CLW Drg.No. 1209-07.303-022, Alt-1
158	29161393	Kit for Two way horn valve as per FTRTIL part No. 790014106 and D&M part No. RK-AAB441-T-15 consists of following 6 items [1] Bellow as per FTRTIL Part No. 014702500 AND D&M PART NO.ab441-2 -01 NO./SET [2] O-RING AS PER FTRTIL PART NO. 01472000A AND D&W PART NO.0015-9 - 02 NOS/SET [3] O-RING AS PER FTRTIL PART NO. 014701000A AND D&W PART NO.0016-120 - 02 NOS/SET [4] SPRING AS PER FTRTIL PART NO.014831000 AND D&W PART NO.001-89 - 02NOS/SET [5] SPRING AS PER FTRTIL PART NO.014832000 AND D&W PART NO.002-3 - 01 NOS/SET [6] O-RING AS PER FTRTIL PART NO. 014701500A AND D&W PART NO.0015-3 - 02 NOS/SET
159	29166196	AS657 M-12 Spare kit of Trident Make Air Dryer Model: LD2000120 consists of 6 items as per Annexure enclosed.
160	29171131	Set of Driver's Seat and Back Rest confirming to ELS/LGD Drg.No.C/ ELS/ LGD/B.F/3/15 Alt-1.
161	29178253	Laminated glass for wind screen for modified WAP4, WAG9 & WAP7 Locos as per SC Rly.Drg.No. A4/EL/CONV/ 2671, Alt-2
162	29880087	TOH [AOH] KIT FOR PANTOGRAPH ASSEMBLY TYPE IR-03H (19 ITEMS 38 Nos) as per RDSO SMI No. RDSO/EL/2016/SMI/0292 Rev.0 dated 27/06/16 annexure attached.
163	29880312	IOH KIT FOR PANTAGRAPH TYPE CCPL IR03H CONSISTING OF 15 ITEMS OF M/S. CONTRANSYS ( 68 SUB ITEMS & 126 IN NOS) AS PER ANNEXURE
164	31357090	660mm LENGTH AIR BRAKE HOSE COUPLING FOR BRAKE PIPE DRG NO. RDSO SK-73547, ITEMS 1 TO 7 ALT-14 SPECIFICATION, APPENDIX-F OF SPEC.02-ABR-02, AMENDT. NO. 4 OF SEP.2016. SPECIAL CONDITION: ENSURE THAT THE PLASTIC DUMMY CAP SHALL BE IN RED COLOR WITH THICKNESS 3.5 TO 4 MM.
165	31880885	PIN TO STONE INDIA LTD NEW REF,NO.S0221125701 OR EQUIVALENT FOR AM 12 PANTOGRAPH FOR EMU USE
166	41133420	Anti tracking for class 'B'/130 degree as per RDSO SMI No.LELRS/SMI/200(Revised) or as per RDSO MPMI No.153/92 REV 04 of SEP 2014, for use infield coil and auxiliary machines i.e Becktol Red of M/s. Elantas Beck Co, Pune or similar.[The test certificate should contain parameters mentioned inAnnexure to MPMI 153/92 Rev 04 of Sep 2014] Note: Only Varnish is required ,firm should quote only for Varnish.
167	41151318	Finishing varnish TVA-1410 C to RDSO spec. RDSO/2008/EL/SPEC/0081 Rev." 0" and thinner S-110 to RDSO spec. No.RDSO/2008/EL/SPEC/0082, Rev "0"
168	61252359	HIGH SILICA LOCOMOTIVE SAND (90%MINIMUM), FREE FROM CLAY, SALT, LOAMS, MICA AND OTHER FOREIGN MATERIALS CONFORMAING TO AAR SPECN. NO. M-916-51( REVISED 1994 )DULY CLEANED, SIEVED, DRIED AND PACKED IN 10 KG CAPACITY GOOD QUALITY POLYTHENE BAGS CONFORMING TO BIS : 9685/2002.
169	73099144	BOLTS HIGH TENSILE HEXAGONAL HEAD 5/16" X 1.5" LONG 18 TPI THREADS UP TO 1" LENGTH WITH ONE HEXAGONAL HEAD HIGH TENSILE NUT AND 2 PLAIN FLAT WASHER OD-1", ID-3/8" AND THICKNESS 1/8" AND RECTANGULAR .SECTION SPRING WASHER OF SIZE OD 5/8" I/D-3/8" THICKNESS 1/16". BOLT NUT AND WASHER ALL ARE TO BE ZINC PLATED- MATERIAL STEEL.
170	80011998	SILICON OIL (BASE SILICON FLUID AND COMPOSITION POLYDIMETHYLSILOXANE) MAKE: AVI-LUBE S-40 OF M/S.AVI-OIL INDIA PVT.LTD. (OR) SILICON LUBRICANT 1609 OF M/S.3M (OR) XIAMETER PMX-200 SILICON FLUID 350 CST OF M/S.DOW CORNING (OR) SILICON 20-300-000-350 CST OF M/S.MATRIX SPECIALTY LUBRICANTS IN 400ML/500ML AEROSOL CONTAINER.

## MUST CHANGE ITEMS DURING TOH - CONVENTIONAL LOCOS

Sl. No.	PL No.	Description
171	80014975	OIL SERVO PRESS 150 RR OF IOC ,HYCOM 150 P OF HPC AND MAK COMPRESSOR OIL 150 OF BPC(LUBE OIL FOR EXPRESSOR) USED FOR BG AND MG DIESEL ELECTRIC LOCOS. (OR EQUIVALENT BRAND AS APPROVED BY RDSO IN THEIR LATEST PANEL/ MAINTENANCE INSTRUCTIONS)
172	80031365	GREASE FOR APPLICATION ON TRACTION MOTOR GEAR CASE OF ALCO DIESEL LOCOS: SERVOCOAT 170-T (IOC)/ BLUE COAT- 3 (BL and CO.)/ MAK CAMEX COMPOUND-(G) (BPC)/BALMEROL PROTOTRAC LUBE OF (M/S.BL and CO.)
173	80090280	INHIBITED MINERAL INSULATING OIL AS PER TYPE II TRANSFORMER OIL OF IS 335:2018 AND RAILWAY'S REQUIREMENT AS PER RDSO
174	81034878	SILICA GEL SELF INDICATING COARSE BLUE IN 5 KGS PACKETS IS. 3401/1992 OF SIZE 6 MM WITH 20% ABSORBING CAPACITY TO BE USED IN ELECTRICAL SWITCH GEAR AND TRANSFORMERS.
175	85011794	SINGLE ROW DEEP GROOVE(SRDG) BALL BEARING TYPE 6304 WITH C3 CLEARANCE BRANDS OF SKF/EUROPE, INDIA,SCHAEFFLER/EUROPE, INDIA (BRAND NAME; FAG) M/S.NEI, JAIPUR (BRAND NAME-NBC), M/S.TATA STEEL LIMITED , M/S NRB BEARINGS LIMITED JALNA MAHARASHTRA, AND M/S TEXSPIN BEARINGS LIMITED, OR ANY OTHER RDSO APPROVED BRANDS ONLY WILL BE ACCEPTED.
176	85011800	Single Row Deep Groove (SRDG) BALL BEARING Type 6305 WITH C3 CLEARANCE FOR TRANSFORMER OIL PUMP MOTOR. BRANDS OF SKF/EUROPE, INDIA, SCHAEFFLER/EUROPE, INDIA (BRAND NAME; FAG) , M/S.NEI, JAIPUR (BRAND NAME-NBC), M/S. TATA STEEL LIMITED,M/S NRB BEARINGS LIMITED JALNA MAHARASHTRA, AND M/S TEXSPIN BEARINGS LIMITED, OR ANY OTHER RDSO APPROVED BRANDS ONLY WILL BE ACCEPTED.
177	85011812	SINGLE ROW DEEP GROOVE BALL BEARING 30 MM BORE x 72 MM OUTER DIA X 19 MM WIDTH BEARING NO 6306 WITH C3 CLEARANCE. MAKE SKF/EUROPE,SCHAEFFLER KG/GERMANY, ROMANIA,ITALY(FAG),SKF(INDIA),FAG BEARING INDIA LTD/VADODARA,NEI.JAIPUR (BRAND NAME-NBC) OR TATA STEEL LIMITED (BEARING DIVISION) KHARAGPUR.
178	85011850	SINGLE ROW DEEP GROOVE BALL BEARING 50 MM BORE X 110 MM OUTER DIA X 27MM WIDTH BEARING NO.6310 WITH C3 CLEARANCE. MAKE SKF/EUROPE,SCHAEFFLER KG/GERMANY,ROMANIA,ITALY(FAG),SKF(INDIA),FAG BEARING INDIA LTD.,/VADODARA, NEI JAIPUR(BRAND NAME-NBC). OR TATA STEEL LIMITED (BEARING DIVISION) KHARAGPUR.
179	85011873	DEEP GROOVE SINGLE ROW BALL BEARING TO SKF NO. 6312 WITH C3 CLEARANCE OR EQUIVALENT MAKE SKF / SCHAEFFLER / NEI / TATA / NRB / TEXSPIN OR ANY OTHER RDSO APPROVED BRAND ONLY.
180	85011885	SINGLE ROW DEEP GROOVE BALL BEARING 65 MM BORE SIMILAR TO SKF.NO.6313 WITH C3 CLEARANCE OF RDSO APPROVED MAKE: SKF/EUROPE, OR SCHAEFFLER KG/GERMANY,ROMANIA,ITALY(FAG), OR SKF(INDIA), FAG BEARINGS INDIA LTD./VADODARA, OR NEI, JAIPUR (BRAND NAME-NBC) OR TATA STEEL LIMITED (BEARING DIVISION) KHARAGPUR.
181	85011915	SINGLE ROW DEEP GROOVE BALL BEARING 80MM BORE SIMILAR TO SKF BEARING NO.6316 WITH C3 CLEARANCE. MAKE: SKF/EUROPE, SCHAEFFLER KG/GERMANY, ROMANIA, ITALY (FAG) SKF(INDIA), FAG BEARING INDIA LTD./VADODARA, NEI JAIPUR (BRAND NAME- NBC) OR TATA STEEL LIMITED (BEARING DIVISION) KHARAGPUR.
182	86010050	PORTABLE STORED PRESSURE ABC TYPE DRY CHEMICAL POWDER FIRE EXTINGUISHER OF 6 Kg. CAPACITY AS PER IS: 15683/2006 (REAFFIRMED 2012) WITH CARRYING HANDLE AND MOUNTING BRACKET.

## MUST CHANGE ITEMS DURING IOH - CONVENTIONAL LOCOS

Sl. No.	PL No.	Description
1	11032730	MODIFIED CLEVIS ASSLY. FOR TRANSITION SCREW COUPLING.
2	11160743	PIN FOR SLACK ADJUSRTER PULL ROD TO DRG. NO. SR/D/PN-54/BM.
3	23660090	Set of Printed Circuit Board (PCB) for WOAMA make Q-44/118 Relays, One set consists of 02 items & 02 Nos. (1) Printed Circuit Board for WOAMA make Q-44 Relay.AS PER woama pt. No. WE/RL/Q44/117-01-01 No.(2) Printed Circuit Boards for WOAMA make Q-118 relay as per WOAMA Pt, NO, WE/RL/118/117-01 No.
4	25010797	LOCKING PLATE (PLAIN) FOR AXLE BOX TO DRG NO.TRS/ACL/P/14-A
5	25010906	WEARING STRIP (TOP EQUALISING BEAM) FOR ROLLER BEARING AXLE BOX TO SR.RLY DRG/NO SR.LW.4.11.07.
6	25018097	CONICAL RUBBER THRUST PAD FOR AXLE BOX TO RDSO DRG.NO.SKDL 2308 ALT-1 AND SKDL 2309 ALT-NIL AND CONFORMING TO SPECIFICATION IRS R63-76.
7	25018206	LOCKING PLATE AS PER M/S.NEI DRG.NO.NEI-X-171 MOD.J PART NO.14 OR SIMILAR (ONE NUMBER CONSISTS OF FOUR SEGMENTS AS PER NEI DRG.NO.NEI-X-171 MOD J).
8	25018280	SEALING RING TO THROWER END COVER FOR AXLE BOX OF WAP-4 LOCOS AS PER M/s. NEI Drg.NO 92-4271C TO THEIR PART. NO.33.
9	25018292	FLAT BENDED COTTER 10 X 22 X 125mm LONG SIZE FOR WAG-7 LOCOS AS PER RDSO DRG.NO.SKVL-703 ALTERATION-2, REFERENCE-10.
10	25018309	PIN FOR WAG-7 LOCOMOTIVE AS PER RDSO DRG.NO.SKVL-703 ALTERATION-2, REFERENCE-2.
11	25018590	MANGANESE STEEL LINER FOR NOSE PAD (SPRING HOLDER PLATE) FOR WAP4/WAG7 LOCOMOTIVES AS PER DRG.NO.SR.DEE/RS/ED/MECH-45 ALT.2. ITEM -3; MATERIAL: MAGANESE STEEL AS PER IS.276-2000 (V TH REVISION OR LATEST) GRADE .I
12	25030024	Gear Case assembly for Traction Motor Type TAO-659 with Roller Bearing Arrangement ( TAOCHI ) as per RDSO drg.No. SKEL-4512 with stainless steel standard insert ( with out grip coil ) confirming to ELS/BZA drg. Nos.B/TS/BOGE/4/305ALT 'B' ELS/BZA Drg.Nos.B/TS/BOGE/4/305ALT'B'
13	25040080	SPRING FOR BOLSTER FRICTION DEVICE TO CLW DRG.NO. 03/4/16/3 ALT 6 AND CONFORMING TO RDSO SPECIFICATION.NO.MP.0.4900.12 Rev.02 OF NOV'12.
14	25040698	SPRING PADS (HAPPY PADS) CONFORMING TO RDSO DRG. NO. SKVL-323 ALTERATION-1, AND SPECIFICATION NO.MP-O-40-99-01 (REV O2) OF OCTOBER 2008.
15	25040730	Snubber Assembly for BG (WDM2) Locos, RDSO Drg.No.SKDL-2089A Alt.No.3, Ref. Lett. A,B, C, D, E, F, G & J SKDL-2091A Ref.No.A, B, C, D, E & F Alt-7, SKDL-3231 Alt.2, SKDL-3232 Alt-2, SKDL-3465 Alt-5, SKDL - 3058, Alt a, SKDL - 3057 Alt. Nil, SKDL - 3069, Alt - Nil
16	25048168	SPRING HOLDER PLATE ASSEMBLY FABRICATED DESIGN TODRG.NO.SR.DEE/RS/ED/MECH-45 ALT.2 ITEM 1, 2 AND 3. MATERIAL: FOR ITEM 3, Mn STEEL AS PER IS 276-2000 (V TH REVISION OR LATEST) GRADR.I
17	25048193	SET OF POLYURETHANE SPRING PADS CONSISTING 1. HAPPY PAD FOR PRIMARY SUSPENSION OF WAP-4 LOCOS TO DRG.NO.SKVL-282 AND RDSO SPECIFICATION NO.MP.0.40.99.01 REV.02 OF OCTOBER 2008-48 NOS./SET. 2. HAPPY PAD FOR SECONDARY SUSPENSION OF WAP-4 LOCOS TO DRG.NO.SKVL-283 AND RDSO SPECIFICATION NO.MP.0.40.99.01 REV.02 OF OCTOBER 2008-32 NOS./SET.
18	25071002	FLEXIBLE HOSE ASSEMBLY FOR SAND EJECTOR TO CLW DRG.NO.0/3/65/402 REF.(C).
19	25071257	SAND HOSE 1" X 27" TO DRG.NO.DEE/RS/ED/MECH-25 ALTERATION-1
20	25100180	PIVOT LINER VERTICAL HALF TO CLW DRG.NO. 03/4/12/2 ALTERATION-3.
21	25100191	PIVOT LINER HORIZONTAL FOR WAP-4 LOCOS TO CLW DRG.NO.03/4/12/1 ALTERATION-4.
22	25100269	PISTON ASSEMBLY FOR BOLSTER FRICTION DEVICE FOR WAP4 LOC, ITEM CONSISTING OF 1)PISTON AS PER RDSO DRG.NO. 29.04.06 ALT-6, OR LATEST , ITEM REF.1 /A1 AS PER MODIFICATION SHEET NO MP.MOD.VL.04-11-09 (REV.00)DATED 28.04.2009, 2) PIN.3) SLEEVE 14.8 X 19 X 38MM 4) END PLATE. 5) DOWEL PIN 6X 61MM 6) SCREW HES.HEAD M 8 X 10 MM ITEM 2,3,4,5 AND 6 SHALL BE AS PER SOUTHERN RAILWAY ELS/ED DRG.NO. SR.DEE/RS/ED/MECH-96, ALT-1.



## MUST CHANGE ITEMS DURING IOH - CONVENTIONAL LOCOS

Sl. No.	PL No.	Description
23	25100348	HITACHI TRACTION MOTOR GEAR CASE ASSEMBLY COMPLETE AS PER CLW DRG.NO. 05/1/13/166 ALT-15, WITH MODIFIED OIL FILLING PIPE ARRANGEMENT TO S.RLY DRG NO TRS/ACL/P/231 ITEM-2, MODIFIED SPRING LOADED OIL COVER FOR GEAR CASE AS PER S.RLY DRG.NO.TRS/ACL/P/463 AND STRENGTHENING OF TM BOSS TO CLW DRG.NO 05/1/13/203 WITH MODIFIED BOSS DESIGN TO RDSO DRG.NO SKEL 4626.
24	25100658	LEATHER BELLOW FOR TM TYPE TAO 659/HS15250A/HS-1050Er TO RDSO SKEL 4583 ALT-2 AND CONFORMING TO RDSO SPECIFICATION NO. SPEC/E-7/06 Rev-2 OF JULY 2002.
25	25100750	SET OF WEAR PLATE (NYLON 66 LINER) FOR GUIDE ASSEMBLY FOR WAP 4 LOCOS AS PER Sr.DEE/RS/CNB DRG.NO. A3/2004/CNB/1913/5031/BG, REF.5 AND 6 - 1 NO. EACH PER SET.
26	25100762	LOCKING PLATE AS PER CLW DRG.NO.06/4/15/19 ALT-4.
27	25102023	SLACK ADJUSTER ASSEMBLY (UPPER) TO RDSO DRG NO SKVL 189 AND SKVL 190 WITH BUSHES ALONE TO MATERIAL Mn STEEL TO IRS-R65/78.
28	25102126	BONDED RUBBER SANDWICH MOUNTING UNIT TO RDSO DRG. NO. SKEL 4997, ALT-0 AND CONFIRMING TO RDSO SPECIFICATION NO.RDSO/2014/EL/SPEC/0115 (REV-'0') DATED 22.08.2014.
29	25102345	MODIFIED SAFETY BRACKET ASSEMBLY FOR EQUALISER SPRING SEAT TO RDSO Drg No SKEL-4609 Alt- O OF ANNEXURE IV OF SMI NO.ELRS/SMI/0225-2001/REV O DATED 15.01.2002.
30	25102382	HORN AND AXLE BOX LINER TO RDSO DRG.NO.SKVL-058.
31	25102400	HORN AND AXLE BOX SIDE LINER TO RDSO DRG.RDSO/SKVL-057.
32	25103222	IMPROVED RUBBER SIDE BEARER FOR WAG-7 LOCOMOTIVES AS PER RDSO DRG. NO. SKVL 608 ALTERATION-1 AND CONFORMING TO RDSO SPEC. NO. MP.0.49.00.17 (REVISION -00) OF OCTOBER-2009.
33	25105085	SIDE STOPPER AS PER RDSO DRG.NO.SKVL 134 ALT.2.
34	25108300	SECONDARY LATERAL DAMPER TO RDSO DRG.NO.SK-VL 295 ALTERATION-1, ITEM NO.2. (CAPACITY 1150+/- 10%).
35	25108438	PRIMARY VERTICAL DAMPER TO RDSO DRG.NO. SK VL-295 ALT.1 ITEM NO.1 (CAPACITY-750+/- 10%)
36	25108955	MODIFIED SPRING LOADED OIL COVER FOR HITACHI TM GEARCASE TO S.RLY DRG.NO. TRS/ACL/P/463.
37	25128073	CENTRE PIVOT RUBBER BUSH ASSEMBLY IN MACHINED FINISH CONDITION TO RDSO DRG.NO.SKVL 266 ALT.3 HAVING ID 246mm.
38	25138029	Revised arrangement of Transition Screw Coupling for Centre Buffer Coupler to RDSO Drg.No.SKDL-2494 Alt-17 & SKDL-2495 Alt-12 to RDSO Specn. No.MP.0.41.00.01 (Rev.1) of April-2003.
39	25138297	MODIFIED CLEVIS ASSLY. FOR TRANSITION SCREW COUPLING. SKDL-2496,ALT-6, ITEM. A & B.
40	25140048	Brake Shoe Key Drg.No.SR/D/BG-20/BM Alt.No.3
41	25141030	BRAKE SHOE COMPLETE,NOMINAL SIZE TO IR PART NO D/BG-1753/X2, ALT.8 REF.NO 2 D/BG-1753/1,2 AND 3 AND RDSO MATERIAL SPECIFICATION NO M AND C/MTD/101/2007
42	25148059	SPRING FOR BRAKE RIGGING AS PER CLW DRG.NO. 03/4/19/59 ALT 3.
43	25148515	SET OF BRAKE RING PINS CONSISTING OF 12 ITEMS MATERIAL Mn STEEL TO IRS R-65/78. (1) LEVER FULCRUM PIN TO DRG.NO.01-4-19-41 ALT.14-8 NOS./SET (2) HANGER LEVER PIN TO DRG.NO.01-4-19-42 ALT.16-8 NOS./SET (3) EQUALISER PIN TO DRG.NO.01-4-19-40 ALT.15-16 NOS./SET (4) TRUNION TO DRG.NO.01-4-19-23 ALT.9-8 NOS./SET (5) FRICTION ARM PIN TO DRG.NO.01-4-19-46 ALT.10-8 NOS./SET (6)LEVER PIN TO DRG.NO.01-4-19-47 ALT.8-8 NOS./SET (7) SLACK ADJUSTER PIN TO DRG.NO.01-4-19-52 ALT.12-16 NOS./SET (8) BRAKE CYLINDER PIN TO DRG.NO.01-4-19-53 ALT.11-8 NOS./SET (9) EQUALISER PIN TO DRG.NO.01-3-19-43 ALT.10-8 NOS./SET
44	25148564	SET OF CONNECTING STRAP FOR WAP-4 LOCOMOTIVE CONSISTING OF 5 ITEMS 1) CONNECTION STRAP OUTER TO CLW DRG.NO.03/3/19/56 ALT.6 - 08 NOS/SET (2) CONNECTION STRAP OUTER TO CLW DRG.NO.03/3/19/53 ALT.6 - 04 NOS/SET (3) CONNECTION STRAP INNER TO CLW DRG. NO.03/03/19/91 ALT.6 - 04 NOS/SET (4) CONNECTION STRAP INNER TO CLW DRG.NO.03/03/19/92 ALT.7 - 04 NOS/SET (5) CONNECTION STRAP INNER TO CLW DRG. NO. 03/03/19/93 ALT.6 - 04 NOS/SET.

## MUST CHANGE ITEMS DURING IOH - CONVENTIONAL LOCOS

Sl. No.	PL No.	Description
45	25148590	SET OF Mn STEEL PINS AND BUSHES FOR WAP-4 LOCOS CONSISTING OF 13 ITEMS:- 1]PIN FOR BRAKE HEAD HANGER DRG.NO.03/4/19/75 ALT 4-25 NOS/SET. 2]PIN FOR BRAKE HEAD HANGER (IN BOARD) DRG.NO.03/4/19/76 ALT 4-4 NOS/SET. 3]PIN FOR BRAKE CYLINDER LEVER to DRG.NO.03/4/19/77 ALT 4-12NOS/SET. 4]PIN FOR PUSH ROD TO DRG.NO.03/4/19/78 ALT 4-12NOS/SET. 5]PIN FOR BRAKE HANGER LEVER DRG.NO.03/4/19/114 ALT2 - 25NOS/SET. 6]PIN FOR CLEVIS (BRAKE RIGGING) TO DRG.NO.03/4/19/115 - 8 NOS/SET. 7]BUSH OD 41mm ID 32mm LENGTH 25mm TO DRG.NO.03/4/12/19 ALT 3-16NOS/SET. 8]BUSH OD 41mm ID 32mm LENGTH 32MM
46	25148618	SET OF STEEL PINS AND BUSHES FOR WAP-4 LOCOS CONSISTING OF 5 ITEMS AS PER IS-1875.1) SET OF PIN AND SUITABLE HEXAGONAL NUT FOR BRAKE HEAD HANGER DRG.NO.03/4/19/10 ALT-5 - 12 NOS/SET. 2) SET OF PIN AND SUITABLE HEXAGONAL SLOTTED NUT FOR BRAKE HEAD HANGER DRG.NO.03/4/19/45 ALT-4 - 12 NOS/SET.3) SET OF BOLTS WITH SUITABLE HEXAGONAL HEADED SLOTTED NUT DRG.NO.03/4/19/61 ALT-4 - 12 NOS/SET. 4) BUSH OD 45mm ID 35mm LONG 32mm DRG.NO.03/4/19/34 ALT-3- 24 NOS/SET. 5) BUSH OD 52mm ID 42mm LONG 16mm DRG.NO.03/4/19/52 ALT-3- 20 NOS/SET.
47	25148620	BOLT FOR HITACHI GEAR CASE M.30X150mm AS PER DRG.NO.DEE/RS/ED MECH.7-99 WITH SUITABLE CASTLE NUT, AS PER IS: 2232/67 GEADE 8 SPLIT PIN TO SIZE 6X60MM AS PER IS.549 AND SPRING WASHER AS PER TO IS 3063-B. (FOR GEAR CASE FIXING)
48	25148692	SPRING FOR BRAKE RIGGING TO CLW DRG.NO.03/4/19/7 ALTERATION-6.
49	25148886	MODIFIED TRUNION ASSEMBLY FOR WAP1/WAP4 LOCOMOTIVE AS PER RDSO DRG.NO.SKEL 4559-1/4 ALT.1, SKEL 4559-2/4 ALT.1, SKEL -4559-3/4-ALT.0 AND SKEL 4559-4/4 ALT.0 WITH AMENDMENT RDSO MODIFICATION SHEET NO.ELRS/MS/0284(REV 01)-2003 DATED 08-01-2004.
50	25150029	RESILIENT MOUNTING PAD ASSEMBLY FOR ARNO TO CLW DRG.NO 05.3.32.331 ALT-5.
51	25160096	1 1/4" Ball type isolating cock to CLW Drg.No.1209-18.306-187 for ALP Emergency brake application.
52	25160357	NON RETURN VALVE TYPE 86 R TEFLON SEAT TO CLW DRG NO 0/3/65/363 ALT 2.
53	25160450	Valve check soft seated 1/2 " to CLW DRG.NO.0/4/65/69.
54	25160620	M-48 KIT (AS 660) FOR AIR DRYER OF M/S. TRIDENT MAKE USED IN AC LOCOS. AIR DRYER MODEL NO. LD 2000122. ONE SET CONSIST OF 14 ITEMS 66 NOS.
55	25162408	1/2" ISOLATING COCK WITHOUT VENT BALL TYPE TO CLW DRG. NO.0/2/65/364 ALTERATION-6 REFERENCE-5.
56	25162603	1/2" BALL TYPE DRAIN COCK TO CLW DRG. NO. 0/3/65/365 ALT-2.
57	25164454	WIPER ASSEMBLY COMPLETE SIMILAR TO CLW SPECN.CLW/AC/163 ALT-3.
58	25164557	SWITCH PRESSURE (RGCP) TO CLW DRG. NO. 0/3/65/288 ALT B REF.1 CONFORMING TO CLW SPECN.NO.CLW/ES/S-24/I.
59	25167121	DIAPHRAM PNEUPHONIC HORN B 730 AND B 736 SIMILAR TO WSF.PAMP.AI.258.
60	25167376	OVERHAULING KIT FOR 3/8" LEVER OPERATED HORN VALVE TO RECON LHV PART NO.40041 AND 40049 EACH ONE NO OR AS PER ELBE PART NO. 5379 AND 5378 EACH ONE NO.
61	25167595	WIPER ARM AND BLADE ASSEMBLY TO ELGI PART NO.000416330.OR TO RECON DRG.NO. REC/W/1035/2 OR EQUIVALENT.
62	25167649	Overhauling Kit for Pipe Joint as RDSO specification IRS/R-48/88 SEC.1 AND SEC.5 GR.B. Consisting of 6 ITEMS. OD/ID/Thickness -QTY. 1) 26X16X2mm-50 NOS. 2) 28X19X2mm-100 NOS. 3) 34X23X2mm -200 NOS. 4) 40X29X2mm -250 NOS. 5) 50X36X2mm - 50 NOS. 6) 58X44X2mm - 80 NOS.
63	25167674	OVERHAULING KIT FOR WIPER MOTOR WITH CONTROL VALVE TO ELGI PART NO 072402109 OR RECON DRG NO REC/W/1035/1&3 AS DETAILED IN THE ANNEXURE ENCLOSED.

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Sl. No.	PL No.	Description
64	25168290	RUBBER KIT FOR AIR FLOW MEASURING VALVE AS PER RDSO DRG.NO.SKDP 2705 CONSISTING OF 07 ITEMS.(1)GASKET,PART NO.B 81950/001TO REF.NO.2 OF SKDP 2705 - 1 NO./SET (2)DIAPHRAGM,PART NO.B 81951/001 TO REF.NO.6 OF SKDP 2705 - 1 NO./SET (3)'O' RING PART NO.D 76151/031 TO REF.NO.17 OF SKDP 2705 - 1 NO./SET (4)'O' RING PART NO.D 76151/014 TO REF.NO.19 OF SKDP 2705 - 1 NO./SET (5)CHECK VALVE DISC PART NO. J 70689/68 TO REF.NO.22 OF SKDP 2705 - 1 NO./SET (6)FIBRE WASHER, PART NO.A 70115 TO REF.NO.28 OF SKDP 2705 - 1 NO./SET (7) DOWTY BONDED SEAL, PART NO.400-007-4490-02 TO REF.NO.30 OF SKDP 2705 -4 NOS./SET
65	25168344	RUBBER KIT FOR FT-1 FEED VALVE AS PER FTRTIL PART NO.790507108. KIT CONSISTS OF 18 ITEMS/22 NOS.
66	25168356	WIPER CONNECTION HOSE (MOTOR/SWITCH) TO TRS/ACL/P/215.
67	25168423	SPARE KIT FOR A9 AUTO BRAKE VALVE CONSISTING OF 14 ITEMS. 1)Inlet and Exhaust valve unit to WABCO Part No.564377/FTIL Part No.790502106 -1no/set, 2)Seat Exhaust valve to WABCO Part No..563967/FTIL Part No.502108000 -1no/set, 3)Cam dog assembly to WABCO Part No.561390/FTIL Part No.502113000-1no/set, 4)Cam Dog to WABCO Part No.562381/FTIL Part No.502815000-1no/set, 5)Rivet to WABCO Part No.549395/FTIL Part No.921006100-2nos/set, 6)Latch cam to WABCO Part No.562376/FTIL Part No.502108000-1no/set, 7)Spring latch to WABCO Part No.562375/FTIL Part No.502109000-1no/set,
68	25168459	SET OF STRAINERS CONSISTING OF 02 ITEMS, (1)STRAINER TO WABCO PART NO. 527583 AND TO FTIL PART NO. 508 4070 00 OR SIL PART NO. 30077401, QTY/SET- 09 NOS/SET, (2) THIMBLE TYPE STRAINER TO WABCO CAT NO. 526835 AND TO FTIL PART NO. 502 1160 00 OR SIL PART NO. 30071341, QTY/SET- 3 NOS/SET.
69	25168484	MAINTENANCE Kit for R6 relay valve to FTIL Pt.No 790534203 CONSISTING OF 12 ITEMS 1.VALVE TO FTIL PART.NO. 799311150-1NO/SET. 2.FILTER TO FTIL PART NO 7993331470-1NO/SET. 3.DIAPHRAGM TO FTIL PART.NO.7993335840-1NO/SET. 4.VALVE SEAT TO FTIL PART.NO.7993336350-1NO/SET. 5.VALVE RETAINER TO FTIL PART.NO.799336380-1NO/SET. 6.SPRING TO FTIL PART.NO.799336390-1NO/SET. 7.SNAP RING TO FTIL PART NO.799336410-1NO/SET. 8.GREASE SACHET TO FTIL PART.NO.799919710-1NO/SET. 9.SEALING RING TO FTIL PART.NO.799920950-1NO/SET. 10.SEALING RING TO FTIL PART.NO.799920960-1NO/SET.
70	25168502	SET OF SPRING KIT FOR C3W DISTRIBUTOR VALVE, F1 SELECTOR VALVE, MU2B VALVE CONSISTING OF 12 ITEMS. (I). C3W DISTRIBUTOR VALVE:- (1) SPRING TO WABCO PT.NO.19187000 AND TO SIL PART NO.08473641 - 01 NO./SET. (2) SPRING TO WABCO PT.NO.18993100 AND TO SIL PART NO.08480941 - 01 NO./SET. (3) SPRING TO WABCO PT.NO.19188100 AND TO SIL PART NO.08472041 - 01 NO./SET. (4) OUTER SPRING TO WABCO PT.NO.19199000 AND TO SIL PART NO.08481241 - 01 NO./SET. (5) SPRING TO WABCO PT.NO.1902700 AND TO SIL PART NO.08481141 - 01 NO./SET. (6) SPRING TO WABCO PT.NO.19196500 AND TO SIL PART NO.08476941 - 01 NO./SET.
71	25168526	SET OF SPRING KIT FOR SA9 AND C2W RELAY VALVE CONSISTING OF 10 ITEMS/10 NOS. PER SET. THE DETAILS OF DESCRIPTION./ SAB WABCO PT.NO.FTIL PT.NO./SIL PT.NO. ARE GIVEN AS BELOW. (1)SPRING INLET VALVE FOR SA9.566696/502805000/30071900 (2) SPRING EXHAUST VALVE FOR SA9/561135/502806000/30072701 (3)SPRING REGULATOR VALVE FOR SA9/521141/503802000/30279301 (4) SPRING FOR SA9/538119/503803000/30279401 (5)HANDLE LATCH SPRING YOKE FOR SA9/564381/502828000/30073800 (6)SUPPLY VALVE SPRING FOR C2W RELAY VALVE/562292/505804000/30383101 (7) RING RETAINING FOR C2W RELAY VALVE/850021/505803000/30383221
72	25169622	IOH kit for M/s. Knorr Bremse make Compact Triplate Panel (Part No. II86643). Kit consists of 16 items as per annexure enclosed.
73	25169658	IOH Kit for M/s Rotex make EP Valve of Model No. 3327 for M/s AAL make VCB consisting of 16 items . 1. Valve spring (Ventilfeedr) 16 - 01 No. 2. Pilot Valve 61-01 No 3. Seat 'O' Ring 19 - 04 Nos. 4. Body 'O' Ring 20 - 02 Nos. 5. Pilot 'O' Ring 21- 03 nos 6. Adopter 'O' Ring 83 - 03 Nos. 7. Tube 'O' Ring 174 - 2nos. 8. Kolben (piston) 'O' ring 18 - 01 no. 9. Deckel (cover) 02 - 01no. 10. Ventileboden (Valve bottom) 03 - 01 No. 11. Kolben (piston) 04 - 01 No. 12. Ventilshaft (Valve shaft) 05 - 01 No. 13. Ventilteller (Pressure plate) 07 - 02 Nos.
74	25170053	MODIFIED SUN VISOR ASSEMBLY TO CLW DRG.NO.05/1/35/149 ALT.7.

## MUST CHANGE ITEMS DURING IOH - CONVENTIONAL LOCOS

Sl. No.	PL No.	Description
75	25172992	FILTER MEDIA CONSISTING OF 09 LAYERS AS PER DRG. NO. 03/2/45/31 ALT - 6, ITEM 9 & 10 TO SUIT FILTER PANEL ASSEMBLY FOR M10 FILTER SPARES FOR WAG5 & WAP4 LOCOMOTIVES
76	25173005	FILTER PANEL ASSEMBLY FOR MIO TYPE FILTER MEDIA TO CLW DRG.No.03/2/45/31 ALT-6.
77	25173200	LAMINATED SAFETY GLASS TRANSPARENT FOR FRONT WINDOW TO DRG NO. 01/4/35/74, ALT-7.
78	25178325	Laminated safety glass for side wall as per drg. no. WR-CCG- EL4-BF-018. Alt-1
79	25180782	HEAD DISC PISTON FOR AIR BRAKE CYLINDER TO RDSO DRG NO. SKDP 3061 ALTERATION-1.
80	25180800	RUBBER KIT FOR F1 SELECTOR VALVE CONSISTING OF 6 ITEMS (1). 'O' RING TO WABCO CAT NO 532282, SKDP DRG.NO.3031, SERIAL NO.14=04 Nos/SET (2) 'O' RING TO WABCO CAT NO 524794, SKDP DRG.NO.3031, SERIAL NO.12=03 Nos/SET (3) 'O' RING TO WABCO CAT NO 536580, SKDP DRG.NO.3031, SERIAL NO.12=04 Nos/SET (4) GASKET TO WABCO CAT NO 558534, SKDP DRG.NO.3057 ALT-3, REF.1=01 No/SET (5) GASKET TO WABCO CAT NO 558535, SKDP DRG.NO.3059 ALT-1=01 No/SET. (6) GASKET TO WABCO CAT NO.533417, SKDP DRG.NO.3036=01 NO./SET
81	25180850	OH KIT FOR 1/2" LIMITING VALVE CONSISTING OF 3 ITEMS.(1). DIAPHRAGM -1 NO. SIMILAR TO RECON PAMP NO.A 105 REF.8. (2). VALVE -1 NO.SIMILAR TO RECON PAMP NO.A 105 REF.NO.15. (3).GASKET FOR LIMITING VALVE BODY-2 NOS.SIMILAR TO RECON PAMP NO A 105 REF.NO.24.
82	25181051	Set of 'O' Rings kit for Auto Isolating Valve consisting of 04 items (I) 'O' Ring to WSF Part No.J 72050/27-1 No./set or 'O' Ring to ELBE Part No.5391/2-1 No./set or 'O' Ring to Recon Drg.No.REC/10093 Ref-4-1 No./set. (II) 'O' Ring to WSF Part No.J 72050/20-3 Nos./set or 'O' Ring to ELBE Part No.5391/1-3 Nos./set or 'O' Ring to Recon Drg.No.REC/10093 Ref-8-3 Nos./set. (III) 'O' Ring to WSF Part No.J 72050/02-4 Nos./set or 'O' Ring to ELBE Part No.5391/3-4 Nos./set or 'O' Ring to Recon Drg.No.REC/10093 Ref-5-4 Nos./set.
83	25183850	BOGIE HOSE CONNECTION 3/4"X30" LONG TO CLW Drg.No. 03/65/106 Alt.3.
84	25184374	SWITCH PRESSURE AS PER CLW SPEC CLW/ES/S-24 ALT.I FOR QPDJ ,RGAF AND RGEB APPLICATION, SIMILAR TO INDFOSS TYPE NO RT-116-SB-X WITH STAINLESS STEEL BELLOWS, RANGE 1 - 10 Kg.cm.sq DIFFERENTIAL ADJUSTMENT RANGE 0.3 - 1.3 Kg.cm.sq.
85	25187041	Maintenance Rubber Kit for C2W Relay Valve consisting of 9 items (1)Diaphragm to Wabco Cat No-536300 SKDP Drg No 3053 alt1=1 No/set (2)'O' Ring 1-5/8" to Wabco Cat No-532282 SKDP Drg No 3031 SI No14=1No/set (3) 'O' Ring 15/16" to Wabco Cat No.524614 SKDP Drg No 3031 SI No.6=1 No/set (4)'O' Ring 11/16" to Wabco Cat No-532257 SKDP Drg No 3031 SI No17=1 No/set (5)'O' Ring 1-7/16"to Wabco Cat No-536239 SKDP Drg No 3031 SI No 18=1 No/set (6) Pipe bracket gasket to Wabco cat No-580565 SKDP Drg No 3047=1 No/set (7)Port Gasket 9/16" to Wabco Cat No 527717 SKDP Drg No 3033=1 No/set
86	25187089	RUBBER KIT FOR SA 9 INDEPENDENT BRAKE VALVE CONSISTING OF 5 ITEMS (1)O RING TO WABCO CAT NO 531868 SKDP DRG NO 3031 SL NO 4= 5 NOS/SET (2) O RING TO WABCO CAT NO 564056 SKDP DRG NO 3031 SL NO 16=1 NO/SET (3) O RING TO WABCO CAT NO 523734 SKDP DRG NO 3031 SL NO 7=-2 NOS/SET . (4) PIPE BRACKET GASKET TO WABCO CAT NO 560009 SKDP DRG NO 3056 ALT.1= 1NO/SET (5) DIAPHRAGM TO WABCO CAT NO 526346 SKDP DRG NO 3052 ALT 1= 1NO/SET.
87	25187302	OVERHAULING KIT FOR C3W DISTRIBUTOR VALVE CONSISTING OF 43 ITEMS AS PER ENCLOSURE. (Rate to be quoted as per set).
88	25187363	RUBBER KIT FOR MU2B VALVE CONSISTING OF 2 ITEMS (1) 'O' RING TO WABCO CAT NO 524614, SKDP DRG.NO.3031, SL.NO.6=7 NOS./SET (2) GASKET TO WABCO CAT NO 558987, SKDP DRG.NO.3058 ALT-1=01 NO./SET.

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## MUST CHANGE ITEMS DURING IOH - CONVENTIONAL LOCOS

Sl. No.	PL No.	Description
133	25308221	BOLT FOR HITACHI GEAR CASE M 30 X 190MM AS PER DEE/RS/ED/MECH /8.99 WITH SUITABLE CASTLE NUT AS PER IS: 2232/67 GRADE 8 SPLIT PIN TO SIZE 6X60MM AS PER IS: 549 AND SPRING WASHER AS PER IS: 3063-B. (FOR GEAR CASE FIXING).
134	25308233	BOLT FOR GEAR CASE M36 X 90MM TO S.RLY DRG.NO.DEE/RS/ED/MECH/5.0 (FOR GEAR CASE FIXING).
135	25308257	BOLT HEX HEAD M12 X 55 IS: 1364/2002 GRADE 8.8. (ONLY LPS,TVS,GKW,VIF,UNK, OR OTHER CLW APPROVED MAKES ARE ACCEPTABLE).
136	25308282	BOLT HEX HEAD M12 X 85 TO IS: 1364/2002 CLASS P 8.8. (ONLY LPS,TVS,GKW,VIF,UNK, OR OTHER CLW APPROVED MAKES ARE ACCEPTABLE)
137	25308324	BOLT HEX HEAD M 24 X 140 X 90MM AS PER IS: 1364/2002 PART-1,S - 8.8 GRADE WITH SUITABLE CASTLE NUT AS PER IS: 2232 AND SPRING WASHER AS PER IS: 3063. ONE HOLE OF 5MM DIA TO BE DRILLED AT A DISTANCE OF 10MM FROM THE THREADED END OF THE BOLT.
138	25308348	BOLT HEX HEAD M18 X 80 STEEL TO IS: 1364/2002 GRADE 8.8 WITH SUITABLE NUT, CHECK NUT, SPRING WASHER AND FLAT WASHER. (ONLY LPS,TVS,GKW,VIF,UNK, OR OTHER CLW APPROVED MAKES ARE ACCEPTABLE)
139	25320403	PIN FOR TRACTION MOTOR NOSE SUSPENSION TO CLW DRG NO 01-3-25-5 ALTERATION-6.
140	25320660	SET OF LOCKING LUGS AND SPLIT PIN AS GIVEN BELOW:- 1. LOCKING LUGS AS PER DRG. NO: SR.DEE/RS/ED/MECH-38 - 02 NO/SET. 2. SPLIT PIN 8X120MM TO IS 549-01 NO/SET
141	25327082	Pin ( Vertical ) for sandwitch mounting as per CLW DRG NO.01/3/25/5, ALT-8
142	25328025	MODIFIED TIE PIN ASSEMBLY TO RDSO DRG NO SKDL 3273 ALT-8 REF.NO.A,B,C & D COMPLETE.
143	25328049	HANGER LEVER PIN IN MATERIAL WITH MATERIAL MANGANESE STEEL TO TO IRS-R65/78as per CLW DRG.NO.06/4/19/22 Alt-2
144	25328062	HANGER PIN WITH MATERIAL SPECIFICATION MANGANESE STEEL to IRS R 65-78 TO CLW DRG.NO.03/4/19/22 FM-II alt-4.
145	25328232	EQUALIZER PIN FOR WAG-7 LOCOS AS PER RDSO DRG.NO.SKVL-703 ALT-2 REF-1.
146	25328591	SPLIT PIN 5 X 56 STEEL IS 549/1974.
147	25328888	KEEPER PIN TO CLW DRG.NO.06.4.25.5.
148	25328943	Set of Pins consists of 2 items for WAP1 & WAP4 Locos as per RDSO Drg.No.29.8.02 Alt.4 Sheet 3 of 4 Ref. No.65 & 66 (One set consist of 2 items - 2 Nos.)
149	25335662	HIGH TENSILE SCREW HEX HEAD FULLY THREADED FOR CLAMPING PLATE M 20 X 50 LONG FOR AXLE BOX OF WAM-4 LOCOS AS PER IS:1364 PART-2/2002 WITH PROPERTY CLASS 8.8.(ONLY LPS/TVS.GKW.VIF,UNK, OR OTHER CLW APPROVED MAKES ARE REQUIRED)
150	25338330	Screw Hex Head M22x45 to IS: 1364/2002 class S-8.8 (Only LPS, TVS, GWK, VIF, UNK, or other CLW approved makes are accepted)
151	25355260	BELLEVILLE SPRING WASHER DIA 6,4/14 to M/s.REPL Part No. S2535 and to Drg.No. MT-430151-P20 or SPRING WASHER M6 TO M/s.AAL PART NO.G2535 AND TO DRG NO.9910646720033.
152	25358145	SPRING WASHER FOR M36 BOLT ID 37 mm OD 56 mm THICK 6.5 mm TO IS 3063/80.
153	25378569	MODIFIED LUBRICATED BUSH TO SIZE 75mm X 65mm X 20mm LONG TO RDSO DRG NO. SKVL-703 ALTERATION-2, REFERENCE-4.
154	25378600	MODIFIED LUBRICATED BUSH TO SIZE 75MM X 65MM X 32MM LONG TO RDSO DRG.NO SKVL-703 ALTERATION-2, REFERENCE 5
155	25488016	SINTERED BRONZE FILTER ELEMENTS WITH GRAIN SIZE 400K WITH END SEALING 'O' RING, STAINLESS STEEL TIE ROD AND PLAIN WASHER FOR EXISTING 'Y' TYPE STRAINER TO RDSO DRG.NO.CG-K 5031 ALT-1.
156	25488089	OVERHAULING KIT FOR FINE FILTER COMPRESSED OIL FILTER MODEL.FF/10-1 PART NO.65101-1001,1002,1003 AND 1004 CONSISTS OF 04 ITEMS 1.NEOPRENE RUBBER "O" RING - 1 NO. 2. NEOPRENE RUBBER WASHER - 2 NOS. 3.FINE FILTER ELEMENT - 01 NO. 4.NEOPRENE RUBBER - 1 NO.
157	25488247	POROUS CERAMIC FILTER ELEMENT GRADE 10, 50/20 MM DIA, 135+/-3MM LONG,5 MICRONS NOMINAL,MADE OUT OF FUSED ALUMINA WITH 2 NOS OF WASHERS & ONE NO OF SPECIAL O RING FOR MAIN SHELL.
158	25517170	Valve plate for Auxilary Compressor type CRC 150 as per ELGI Part No. 000330950

## MUST CHANGE ITEMS DURING IOH - CONVENTIONAL LOCOS

Sl. No.	PL No.	Description
159	25517351	GASKET SET FOR AUXILIARY COMPRESSOR CONSISTING OF 5 items (1) PACKING C/CASE TO MOTOR 1 No TO ELGI PART NO 000411630 (2) COPPER ASB WASHER 2 Nos TO ELGI PART NO 000521950 (3) PACKING C/CASE TO CYLINDER - 1 No TO ELGI PART NO 00041164A (4) PACKING CYLINDER TO VALVE FLAT - 1 No TO ELGI PART NO 00041152A (5) PACKING CYLINDER HEAD TO VALVE FLAT-1 NO TO ELGI PARTNO 00041153A OR EQUIVALENT.
160	25517570	AUXILIARY COMPRESSOR RING SET FOR CRC 150 CONSISTS OF 3 ITEMS (1) PLAIN COMPRESSION RING TO ELGI PART NO. 0416870 OR EQUIVALENT -1 NO PER SET (2) STEPPED COMPRESSION RING TO ELGI PART NO. 0420330 OR EQUIVALENT -1 NO PER SET (3) SLOTTED OIL CONTROL RING TO ELGI PART NO. 041880 OR EQUIVALENT -1 NO PER SET.
161	25518331	HIGH PRESSURE RUBBER HOSE FOR WORKING PRESSURE OF 20 KG/Sqcm AND HAVING EMBEDDED STEEL WIRE TO IS 226 GI COATED AND RUBBER HOSE CONFORMING TO SAE-100 R1 HAVING OD-17.5MM, ID-8MM AND LENGTH-610MM. HOSE TO BE PROVIDED WITH 3/8" SWIVEL NUT AT BOTH ENDS WITH FLAT WASHER. THE METALLIC NUTS SHALL CONFORM TO IS 226 GI COATED.
162	25518355	AOH KIT FOR CRC 150 COMPRESSOR CONSISTING OF 11 ITEMS /13 NOS AS DETAILED BELOW .1)GASKET TO ELGI Pt no 000411630-1 no/set-no/set2) copper washer to ELGI part no000521950-2 nos/set,3)spider ring to ELGI part no000426040 -1no/set 4)piston rings set60mm to ELGI Pt 022401039 -1no/set 5)Gasket to ELGI pt no-00041164 A-1 NO/set 6)Gasket TO ELGI pt no 00041164 B-1 NO/SET 7) GASKET TO ELGI PT NO-00041164 C 1 NO/SET 8)GASKET TO ELGI PT NO 00041152A -1NO /SET 9) GASKET TO ELGI PT NO 00041153 -A -1 NO/SET 10)AIR FI LTER ASSEMBLY WITH COVER TO ELGI PT NO 00041750A -1 NO/SET11) VALVE PLATE
163	25519335	AOH Kit of ELGITRC-1000MN compressor consisting of 28items as per annexure
164	25560049	Contact Roller Complete to M/s. REPL Part No S1515 and to Drg No AG-546151-R1 or Contact Roller to M/s. AE Part No G1515 and to Drg No 9980383530801
165	25564481	SUB KIT - 3 (AOH/IOH/POH) SEALING RING OR U-SECTION RING TO M/s.REPL PART NO A2303 OR TO M/s.AAL PART NO M2303 OR SKEL-3463, AND CONFIRMING TO RDSO SPEC/E-4/01 CONSISTING OF 1 ITEM/4NOS AS PER ANNEXURE-1J.
166	25568395	Sub kit IOH-2A for IOH maintenance of N-32 Tab Changer comprising of 12 nos. uncommon items as per Annexure R2 and 06 nos. uncommon hardware items as per Annexure IOH-HW -2 (total 18 items) specific to M/s. Anantashree Engineers (Ganz type) N-32 Tap changer. As per attached Annexure .
167	25568413	SUB KIT IOH-2B SPECIFIC TO M/S.RIVER ENGINEERING PVT. LTD. ,TAP CHANGER CONSISTING OF 7 ITEMS/19 NOS AS PER ENCLOSURE ANNEXURE 1F.
168	25568450	CONTACT TIP to M/s.REPL Part No S2529 and to Drg No. AG-540123-P1 and to AAL Part No.G2529 and to Drg.No.9910383694001.
169	25568796	SUB KIT IOH -1 (COMMON ITEMS) FOR TAP CHANGER OF M/s.REPL AND M/s.AAL CONSISTING OF 30 ITEMS/83 NOS. AS PER ANNEXURE-1D
170	25568814	SUB KIT-4 IOH/POH FOR TAP CHANGER NO 32 CONSISTS OF 02 ITEMS/01 NO EACH AS PER ANNEXURE-1K. (1). INSULATING RING (INNER) TO M/s.AAL PART NO G1218 OR INSULATING RING COMPLETE (INNER) TO M/s.REPL PART NO. S1218 OR TO RDSO DRG NO SKEL 4661 ALT-1. (2). INSULATING RING (OUTER) TO M/s.AAL PART NO. G1219 OR INSULATING RING COMPLETE (OUTER) TO M/s.REPL PART NO S1219 OR TO RDSO DRG NO SKEL 4661 ALT-1.
171	25569302	DIESEL FILTER INSERT 1.1 COIL TYPE FOR TAP CHANGER OF M/S.BOSCH MICO MAKE OIL FILTER TYPE 9451-037-409-8F8 OR PART NO.S31.1 FILTER ELEMENT OF M/S.REPL TO DRG.NO.SWT-335066-P5 OR PART NO.G31.1 FILTER OF M/S.AAL TO DRG.NO.9919000197005.
172	25569338	OIL FILTER TO M/s.REPL PART NO S31 AND TO DRG NO SWT 335066 P1 OR OIL FILTER ASSEMBLY TO M/s.AE PART NO G31 AND TO DRG NO 9989000197801
173	25601131	3 SQ.MM/750 V SINGLE CORE ELASTOMERIC CABLE TO RDSO SPECIFICATION E 14/01 PART I REVISION II OF 1993.
174	25607315	CARBON BRUSH FOR HITACHI TM TYPE HS-15250 A TO RDSO DRG NO EL.3.BS.013(MOD) Alt 5 AND CONFORMING TO RDSO SPECN ELRS/SPEC/CB/0027-REVISION "0" OF SEPTEMBER 2003.
175	25607390	TEFLON RING FOR HITACHI TM

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## MUST CHANGE ITEMS DURING IOH - CONVENTIONAL LOCOS

Sl. No.	PL No.	Description
197	25702452	SWITCH PUSH BUTTON GREEN COLOUR WITH CONTACT ELEMENT 1NO + 1NC TO BCH MAKE PUSH BUTTON TYPE TSFB-G+050 N1.
198	25702555	SWITCH PUSH BUTTON RED COLOUR (BP1DJ) WITH 2NC CONTACT BLOCK BCH TYPE CAT NO.TSFB-R 050N3
199	25703055	HQCVAR Programme switch for by-passing QCVAR of WAM4/WAG-5A/WAP-1/WAP-4 type locos specification CLW/ES/S-1/Y ( Siemens type K 138 X 22 old PROG No.4A-0067-9661 Type 3 LAO-250-2YW-006 W HQCVAR.)
200	25703559	Programme switch (HVSI) for MVSI and QVSI of WAM4 and WAG5A type locos fully concealed to specification CLW/ES/S-1/Y ONE SET CONSIST OF HVSI -1AND HVSI -2 EACH ONE NUMBER( Siemens type K 138 X 24 old PROG No.4A-0067-9941 Type 3 LAO-250-4YW015W HVSI)
201	25703808	AUXILARY SWITCH ASSEMBLY FOR REVERSOR AND MASTER CONTROLLER TO CLW DRG. NO 4TWD-101-138 ALT-6 (OUTER SHEET) AND CONFORMING TO SPECIFICATION 4 TES-111-028 ALT-1.
202	25708491	PROGRAMME SWITCH HRAVT TO SIEMENS TYPE, TYPE 3 LAO -250-4YW/121W (16 AMPS/415V, 50Hz).
203	25718071	IOH kit for VCBA 25.10 Tr (3 Year maintenance) each set consisting of 20 items as per Annexure enclosed.
204	25718113	PRESSURE REGULATOR FOR VCB TYPE 2OCB/22CB OF M/s.SCHNEIDER ELECTRIC INFRASTRUCTURE LTD., TO THEIR PART NO.5110420.
205	25718241	IOH REPLACEMENT KIT FOR SINGLE BOTTLE VCB OF M/S.SCHNEIDER ELECTRIC INFRASTRUCTURE LTD., VADODARA. TYPE 22 CB CONSISTING OF 28 ITEMS AS PER ENCLOSURE
206	25728222	Self Fusing tape 0.76MM Thick X 25MM Width ,9 Meters Length .Make P966 Permacel/Stanvac (W963 Plysafe) only.
207	25728258	SEALANT FOR THE PURPOSE OF PREVENTING WATER LEAKAGES IN LOCOMOTIVES CONFORMING TO CLW SPECN. CLW/ES/3/0650.
208	25780153	SPARE FUSE LINK HRC 35 AMPS/100V DC BOTTLE TYPE TO CLW SPECIFICATION CLW/ES/F8 ALT.E, TYPE F-35 AND TO IS: 13703-1993.
209	25780256	HRC FUSE 16AMPS 100V DC BOTTLE TYPE CONSISTS OF (1) FUSE BASE, (2) FUSE LINK, (3) FUSE CARRIER (4) GAUGE PIECE (5) COLLAR RING TO CLW SPECIFICATION CLW/ES/F8 AND TO CLW DRG.NO.CLW/ES/SK-1/F8 TYPE A 16.
210	25780451	SPARE FUSE LINK HRC 16 AMPS/100V BOTTLE TYPE DC TO CLW SPECIFICATION CLW/ES/F8 ALT.E, TYPE F-16 AND TO IS: 13703/1993.
211	25780529	HRC FUSE 35 AMPS/100V DC BOTTLE TYPE CONSISTS OF (1)FUSE BASE (2) FUSE LINK. (3) FUSE CARRIER. (4) GUAGE PIECE. (5) COLLAR RING TO CLW SPECIFICATION CLW/ES/F8 ALT.E, & TO CLW DRG. NO.CLW/ES/SK-1/F8 TYPE A-35 AND CONFORMING TO IS: 13703-1993.
212	25780657	HRC FUSE 6 AMPS,220V AC TYPE A6 CONSISTS OF FUSE BASE,FUSE LINK 6 AMPS,FUSE CARRIER, GAUGE PIECE AND COLLOR RING CLW SPECN. CLW/ES/F8 AND CLW DRG.NO .CLW/ES/SK-1/F-8 TYPE A6.
213	25781054	HRC FUSE 6 AMPS/100 DC bottle type consists of (1) Fuse base. (2) Fuse Link. (3) Fuse carrier. (4) Gauge piece. (5) Collar ring to CLW's Specn. No. CLW/ES/F8 alt D type F6.
214	25800152	BLOCKING DIODE (VS DIODE) 10 AMPS/400 VOLTS PIV 1000 VOLTS TO CLW/ES/D-1/B ALT-B AND CLW DRG NO. CLW/ES/SK-1/D-1/B ALT B.
215	25877203	OVERHAULING KIT FOR ROTEX MAGNET VALVE SR 3038(OLD MODEL NO SR 231 NW 10) CONSISTING OF 11 ITEMS SIMILAR TO RECON DRG NO REC/RMV/1011 ALT-4 AS FOLLOWS (1) O RING TO RECON REF NO 0I-2Nos/SET (2) O RING TO RECON REF NO 09 -2 NOS/SET (3) O RING TO RECON REF NO 10-2NOS/SET (4)O RING TO RECON REF NO 15-1 NO/SET (5)O RING TO RECON REF NO 16-1 NO./SET (6)O RING TO RECON REF NO 17 -1 NO/SET (7)SEAL TO RECON REF NO 19 -1NO/SET (8)SEAL TO RECON REF NO 24-1NO/SET (9) O RING TO RECON REF NO 29 -1NO/SET. (10)O RING TO RECON REF NO 39-1NO/SET (11)O RING TO RECON REF NO 45-1NO/SET.
216	25878013	COIL 110V FOR MAGNET VALVE(VEPT,VEAD ETC) TO CLW SPECN NO.CLW/ES/M.2,ALT-1 SIMILAR TO SEITZ ROTEX MAGNET VALVE, TYPE SR-3038,SIZE III, SL NO 23, POSITION 34



## MUST CHANGE ITEMS DURING IOH - CONVENTIONAL LOCOS

Sl. No.	PL No.	Description
217	25878360	SET OF SPARES FOR NC-4 VALVE OF TYPE 3103 C OF M/S. ROTEX MAKE SET CONSISTING OF SIX ITEMS. SET DETAILS:1) BODY "O" RING, PART NO.20-01 NO/SET 2) MA "O" RING PART NO .22-01 NO/SET 3) GUIDE "O" RING PART NO.32-01 NO/SET 4) COIL GASKET, PART NO.35-01 NO/SET 5) DIAPHRAGM PART NO.50-01 NO/SET 6) PLUNGER ASSEMBLY PART NO.30(30/1 TO 30/8)-1 NO/SET.
218	25880378	RUBBER STOP FOR AM-12 PANTOGRAPH TO SIL OLD PART NO. SOOO195/SIL NEW PART NO. S0220110201 OR TO CONTRANSYS PART NO. CO130 OR GENERAL STORES DRG.NO.GSEC/PANTO.051 OR SIMILAR.
219	25881206	Top Mounting Fitting Assembly Part A AND Part B EACH 1 NO per set ALONG WITH BUSH, SHUNT, BIMETAL WASHER & HARDWARES TO SIL Old Part No SOOO277/New Part No S0221115401 (Part A) AND New Part No S0221115402 (Part B) or to Contransys Part No. CO1520 or Concept Drg.No. Top Mounting Part-A Drg.No.0101091, Top Mounting Part-B Drg.No.0101093, Bimetal washer Drg.No.0103072, Shunt Drg.No.0103032, Bush Drg.No.0103095 or its equivalent of GSEC.
220	25881346	Cylinder Support for AM-12 Pantograph to SIL Old Part No SOOO291/SIL New part No S0221126201 or to Contransys Part No CO1540. or to General Stores drg. no. GSEC/PANTO/025 OR CONCEPT DRG. NO. 0102101.
221	25881395	SUPPORT ROD ASSEMBLY FOR AM-12 PANTOGRAPH TO SIL OLD PART NO.SO00296/SIL NEW PART NO S0221116801 OR TO CONTRANSYS PART NO.CO15610.
222	25881413	Set of Bushes for AM-12 or IR-01 or PAN-01 Pantograph each set consisting of 1.Bush to SIL old Part NoS000298 /New Part No S0220133001- 2Nos. or Bush to Contranys Part No.CO15630-02Nos per set. 2.Bush to SIL old Part No S000299/New Part No S0220133101- 2Nos. or Bush to Contranys Part No.CO15640-02Nos per set 3.Bush to SIL old Part No S000302/New Part No S0220131301- 2Nos. or End Cap Bush to Contranys Part No.CO15670-02Nos per set. 4.Bush to SIL old Part No S000310/New Part No S0221133000- 2Nos. or Bush to Contranys Part No CO1620-02Nos per set. 5.Bush to SIL old Part No.
223	25881449	Spring for AM-12 Pantograph to SIL Old Part No SOOO301/SIL New part No S0221125901 or to Contransys Part No CO15660 or to General Stores and Engineering Co. Drg.No.GSEC/PANTO/061, WITH STIFFNESS 0.5 +/- 5 percent KG/MM AS PER RDSO MODIFICATION SHEET NO ELRS/MS/0333 REV-O.
224	25881589	METALISED CARBON STRIPS FOR AC PANTOGRAPH TYPE AM-12 AS PER RDSO DRG.NO.SKEL-4303 REV 6 AND CONFORMING TO RDSO SPECIFICATION RDSO/2009/EL/SPEC/0097 REV.'1' OF SEPTEMBER 2013.
225	25881747	Piston Packing Ring for AM-12 Pantograph to SIL Old Part No SOOO331/SIL New part No S0221129100 or to Contransys Part No CO1870.
226	25881978	OVERHAULING KIT FOR PANTOGRAPH CONSISTING OF 4 ITEMS. 1. JOINT FOR VALVE TO SIL OLD PART NO S000354/NEW PART NO.S0220131901-1 NO. OR CONTRANSYS PART.NO.CO19130-1 NO. 2. PISTON RING TO SIL OLD PART NO. SOOO356/NEW PART NO.S0220132101-1 NO. OR CONTRANSYS PART.NO.CO1960-1 NO. 3. JOINT TO SIL OLD PART NO.S000361/NEW PART NO.S0220132601-1 NO. OR CONTRANSYS PART.NO.CO19100-1 NO. 4. RING GASKET TO SIL OLD PART NO. SOOO364/NEW PART NO.S0220132201-1 NO. OR CONTRANSYS PART NO CO1930.
227	25888067	AOH KIT FOR AM-12/IR-01/PAN-01 PANTOGRAPH VIDE TECHNICAL CIRCULER NO. RDSO/2007/EL/TC/0094 REV (0) DT. 08.06.2007. EACH SET CONSISTING OF 35 ITEMS AS PER ANNEXURE'A'.
228	25890244	AUXILIARY SWITCH ASSEMBLY COMPLETE (EMC) TO CLW DRG NO.2TWD-291-053/2 CONSISTING OF 2NO+1NC AND CONFORMING TO CLW SPECN.NO.4 TES.111.028 ALT-1.
229	25890311	COIL ASSEMBLY FOR EM CONTACTOR (EMC) TO CLW DRG.NO.3TWD/291/001 Alt-13.
230	25890608	FIXED CONTACT ASSLY FOR HIGH CAPACITY EMC TYPE 291-01 ASPER CLW DRG NO.2TWD/291/003.SHEET-1 ALT-8.
231	25890803	MOBILE CONTACT ASSEMBLY FOR HIGH CAPACITY EMC TYPE 291-01 AS PER CLW DRG.NO 3TWD/291/004 SHEET 1.ALT 5 CONFORMING TO CLW Spec. 4TES.291.001 ALT.6.
232	25897020	ARNO STARTING CONTACTS TO DRG.NO PD/PWP/4TWD/CT-001/ALT-2 CONSISTING OF (1) FIXED CONTACT WITH TIP (SILVER SOLDERED) (2) MOBILE CONTACT TIP.

## MUST CHANGE ITEMS DURING IOH - CONVENTIONAL LOCOS

Sl. No.	PL No.	Description
233	25910632	Shunt for AM-12 Pantograph Pantograph to SIL Old Part No. SOOO276/SIL New Part No.S0220133203 and to Contransys Part No CO320 or to Concept Drg.No.0103032 or to General Stores and Engineering Co. Kolkata Drg.No.GSE/PANTO/105.
234	25930059	HORN SIGNALLING PIEZO ELECTRONIC TO SPECN. CLW/ES/H-5 ALT-B.
235	25940168	EARTH BRUSH FOR TAO-659 TM TO CLW DRG.NO 4TWD/092/434 SHEET-3 ALT 2.
236	25948283	SET OF FIXED AND MOBILE CONTACTS FOR EM CONTACTORS TYPE CBA-C-55C-64 TO CLW DRG NO 3TWD/291/004/ SHEET 2 ALT-12 AND 3TWD-291-003/ SHEET 4 ALT 8 AND CONFORMING TO CLW SPEC.NO.4TES.291.001 ALT-6.
237	25948301	TEFLON SPACER FOR HITACHI BRUSH HOLDER
238	25948507	NOSE LINER FOR TM TO S.Rly DRG TRS/ACL/P/11 ALT-1,
239	25948570	LINER FOR SUSPENSION OF HITACHI TRACTION MOTOR TYPE HS15250A AS PER HITACHI DRAWING NO. 10S.813.325 ALT(I) (IS 276-Mn Steel liner).
240	25949226	SET OF LOCKING PLATE FOR HITACHI TRACTION MOTOR CONSISTING OF 2 ITEMS 1)PINION LOCKING PLATE AS PER DRG NO.TRS/ACL/P/545-2 NOS/SET. 2)TRIANGULAR LOCK PLATE FOR HITACHI TM AS PER DRG NO.TRS/ACL/P/198 ALT 1-1 NO./SET.
241	25960830	OVERHAULING KIT FOR NC4 VALVE CONSISTING OF RECON DRAWING NO.REC/EV/1027.(1)NYLON SPINDLE TO RECON REF.NO.2-1 NO. OR TO CLW DRG.NO.4TWD.111.118 SHEET NO.19 QTY.-1 NO. (2) SPRING TO RECON REF.NO.11-1 NO. OR TO CLW DRG.NO.4TWD.111.118 SHEET NO.11 QTY.-1 NO. (3) COPPER WASHER TO RECON REF.NO.13-1 NO. OR TO CLW DRG.NO.4TWD.111.118 SHEET NO.18 QTY.-1 NO. (4) INSULATING WASHER TO RECON REF.NO.18-1 NO. OR TO CLW DRG.NO.NIL, DIMENSION 51x17x0.7 mm THICK QTY.-1 NO. (5) CIRCLIP 3.2 DIA TO RECON REF.NO.23-1 NO. OR TO CLW DRG.NO.NIL DIMENSION 03.2, QTY.-1 NO. (6) LOWER VALVE ASSEMBLY TO RECON REF.NO.14-
242	25963247	SPRING FOR MOTOR CONTACTOR DRG.NO.4TWD-112-029A.ALT 3.
243	25964008	AUXILARY CONTACT AND SUPPORT ASSEMBLY WITH SIX BLOCK SWITCH ASSEMBLY FOR MOTOR CONTACTOR AS PER CLW Drg.No.4TWD.112.090 ALTERATION-5. (SHEET NO.0) AND TO SPECIFICATION. 4TES.111.028 ALT-1.
244	25968087	Set of fixed and mobile contacts for line contactor 1500 Amps contacts to Drg No.3TWD/112/010A Alt-4 and Drg. No. 3TWD/112/116A Alt- 4 and to CLW Specification 4TES.111.029 Alt-2.
245	29160613	Overhauling kit for Either M/s. Electromech make or M/s. Knorr Bremse Make Wiper Motor Operating Valve (M/s. Electromech's Make R-12 & M/s. Knorr Bremse Make NR-12R) As Per Annexure. One Set Comprising of 17 Items in 30 Nos.
246	29161058	SET OF WIPER ARM COMPLETE LH & RH FOR WAP – 7 & WAG-9 (3 PHASE) CLASS OF LOCOMOTIVES. AS PER CLW SPECN.NO.CLW/MS/3/ 050 ALT-6
247	29161060	Wiper blade assembly for Electric Locomotive as per CLW Spec.No. CLW/MS/3/050, Alt-6 & CLW Drg.No. 1209-07.303-022, Alt-1
248	29161393	Kit for Two way horn valve as per FTRTIL part No. 790014106 and D&M part No. RK-AAB441-T-15 consists of following 6 items [1] Bellow as per FTRTIL Part No. 014702500 AND D&M PART NO.ab441-2 -01 NO./SET [2] O-RING AS PER FTRTIL PART NO. 01472000A AND D&W PART NO.0015-9 - 02 NOS/SET [3] O-RING AS PER FTRTIL PART NO. 014701000A AND D&W PART NO.0016-120 - 02 NOS/SET [4] SPRING AS PER FTRTIL PART NO.014831000 AND D&W PART NO.001-89 - 02NOS/SET [5] SPRING AS PER FTRTIL PART NO.014832000 AND D&W PART NO.002-3 - 01 NOS/SET [6] O-RING AS PER FTRTIL PART NO. 014701500A AND D&W PART NO.0015-3 - 02 NOS/SET
249	29161680	AS660- M48 spare kit of Trident Make Air Dryer Model:- LD 2000120 Consists of 14 items as per Annexure enclosed.
250	29161927	Overhauling kit for Knorr Bremse Make Horn Operating Valve as per KBIL Part No. – 1176212, Set consists of 11 items (18 Nos.) as given below – (1) Fulcrum, Part No – C 152224= 01 No/set. (2) Bellow, Part No - C 152228= 01 No/set. (3) Tension Spring, Part No-C 152231= 01 No/set. (4) Locking Ring, Part No- 468204= 02 Nos/set. (5) Lock Washer, Part No.-465326 = 02 Nos/set. (6) Compression Spring, Part No - A304485/7= 02 Nos/set. (7) O Ring, Part No - A43321=02 Nos/set. (8) O Ring, Part No - K4149= 02 Nos/set. (9) Washer, Part No - 450657=02 Nos/set. (10) O Ring, Part No - K4140=02 Nos/set. (11) Ball Knob Red, Part No.-C 159881=01 No./set

## MUST CHANGE ITEMS DURING IOH - CONVENTIONAL LOCOS

Sl. No.	PL No.	Description
251	29168302	Overhauling kit for M/s Elecromech make or M/s Knorr Bremse make wiper motor one set consists of 16 items 48 Nos. (Electromech Pt. No. EM/3%D8/PCWS/PT-2/OHK or Knorr Bremse Part No. II70254)
252	29168326	M-48 kit for air dryer of Trident make to MODEL NO. LD 2000120 CONSISTING OF 14 ITEMS. 1) FILTER ELEMENT TRIDENT PART NO.AD433 =01 NO. 2) CUP TOP FILTER TRIDENT PART NO.CD668=01 NO. 3) CUP BOTTOM FILTER TRIDENT PART NO.CD669= 01 NO. 4)SPARE KIT FILTER BOTTOM TRIDENT PART NO.AS443=01 NO. 5) SPARE KIT VALVE DOUBLE POPPET TRIDENT PART NO.AS444=01 NO. 6) FILTER ELEMENT M250Y TRIDENT PART NO.AC077=01 NO. 7) SPARE KIT VALVE SHUTTLE TRIDENT PART NO.AS445=01 NO. 8)SPARE KIT FOR PURGE VALVE TRIDENT PART NO.AS446=01 NO. 9)BAG CARTRIDGE DESICCANT TRIDENT PART NO.CD671=02 NOS. 10) SPRING COMPACTOR TRIDENT PART NO.CD673=02 NOS. 11) SPARE KIT SEALS TOWER TRIDENT PART NO.AS447=01 NO. 12) SUB ASSLY HUMIDITY INDICATOR -3-R1 TRIDENT PART NO.AD925=02 NOS.13)GASKET PAD AMISCO SOLENOID VALVE TRIDENT PART NO.AS079A=02 NOS. 14) SPARE KIT SEALS CONTROLLER BOX TRIDENT PART NO.AS709=01 NO.
253	29171131	Set of Driver's Seat and Back Rest confirming to ELS/LGD Drg.No.C/ ELS/ LGD/B.F/3/15 Alt-1.
254	29178253	Laminated glass for wind screen for modified WAP4, WAG9 & WAP7 Locos as per SC Rly.Drg.No. A4/EL/CONV/ 2671, Alt-2
255	29208245	IOH KIT FOR LAXVEN E1 ESMON RECORDER, INDICATOR AND TECHO GENERATOR AS PER ANNEXURE
256	29880312	IOH KIT FOR PANTAGRAPH TYPE CCPL IR03H CONSISTING OF 15 ITEMS OF M/S. CONTRANSYS ( 68 SUB ITEMS & 126 IN NOS) AS PER ANNEXURE
257	31357090	660mm LENGTH AIR BRAKE HOSE COUPLING FOR BRAKE PIPE DRG NO. RDSO SK-73547, ITEMS 1 TO 7 ALT-14 SPECIFICATION, APPENDIX-F OF SPEC.02-ABR-02, AMENDT. NO. 4 OF SEP.2016. SPECIAL CONDITION: ENSURE THAT THE PLASTIC DUMMY CAP SHALL BE IN RED COLOR WITH THICKNESS 3.5 TO 4 MM.
258	31880885	PIN TO STONE INDIA LTD NEW REF,NO.S0221125701 OR EQUIVALENT FOR AM 12 PANTOGRAPH FOR EMU USE
259	38130774	KNUCKLE PIVOT PIN WITH WASHER FOR TRANSITION & NON TRANSITION UPGRADED HIGH TENSILE CBC FOR FREIGHT STOCK TO ITEM 4 OF RDSO SK.62724, ALT.28 AND TO RDSO SPECN. NO. WD-70-BD-10 (REV.3) OF MAY 2022
260	38130828	YOKE PIN FOR TRASITION AND NON TRANSITION UPGRADED HIGH TENSILE CBC FOR FREIGHT STOCK TO DRG.NO.ITEM 12 OF RDSO SK-62724, ALT.27 TO RDSO SPECN. NO WD-70-BD-10 (REV.2.) OF NOV.2017
261	38134305	KNUCKLE FOR TRANSITION AND NON TRANSITION UPGRADED HIGH TENSILE CBC AAR TYPE 'E' FOR FREIGHT STOCK TO DRG.NO. ITEM 2 OF RDSO SK-62724, ALT.28 WITH WD-87004/S-01, ALT.8 AND TO RDSO SPECN.NO.WD-70-BD-10 REV.2 OF NOV-2017
262	38324180	CLEVIS PIN WITH WASHER FOR TRANSITION CBC TO DRG.NO.-SK-69508, ITEM-1&2, ALT.-4 OR LATEST. (1 NUMMERS EACH PER SET)
263	41133420	Anti tracking for class 'B'/130 degree as per RDSO SMI No.LELRS/SMI/200(Revised) or as per RDSO MPMI No.153/92 REV 04 of SEP 2014, for use infield coil and auxiliary machines i.e Becktol Red of M/s. Elantas Beck Co, Puneor similar.[The test certificate should contain parameters mentioned inAnnexure to MPMI 153/92 Rev 04 of Sep 2014] Note: Only Varnish is required ,firm should quote only for Varnish.
264	41151318	Finishing varnish TVA-1410 C to RDSO spec. RDSO/2008/EL/SPEC/0081 Rev." 0" and thinner S-110 to RDSO spec. No.RDSO/2008/EL/SPEC/0082, Rev "0"
265	45150242	Coupling Socket assembly with locking arrangement with cable (EBM) suitable for inter Vehicular Coupler EOG system, 750 volts, 3 ph, 500amps, 50Hz, suitable to use with LHB type AC coaches, as per RDSO Spec.No.RDSO/PE/SPEC/AC/0177 (REV 1)-2013.
266	61252359	HIGH SILICA LOCOMOTIVE SAND (90%MINIMUM), FREE FROM CLAY, SALT, LOAMS, MICA AND OTHER FOREIGN MATERIALS CONFORMAING TO AAR SPECN. NO. M-916-51( REVISED 1994 )DULY CLEANED, SIEVED, DRIED AND PACKED IN 10 KG CAPACITY GOOD QUALITY POLYTHENE BAGS CONFORMING TO BIS : 9685/2002.

## MUST CHANGE ITEMS DURING IOH - CONVENTIONAL LOCOS

Sl. No.	PL No.	Description
267	73099144	BOLTS HIGH TENSILE HEXAGONAL HEAD 5/16" X 1.5" LONG 18 TPI THREADS UP TO 1" LENGTH WITH ONE HEXAGONAL HEAD HIGH TENSILE NUT AND 2 PLAIN FLAT WASHER OD-1", ID-3/8" AND THICKNESS 1/8" AND RECTANGULAR SECTION SPRING WASHER OF SIZE OD 5/8" I/D-3/8" THICKNESS 1/16". BOLT NUT AND WASHER ALL ARE TO BE ZINC PLATED- MATERIAL STEEL.
268	80011998	SILICON OIL (BASE SILICON FLUID AND COMPOSITION POLYDIMETHYLSILOXANE) MAKE: AVI-LUBE S-40 OF M/S.AVI-OIL INDIA PVT.LTD. (OR) SILICON LUBRICANT 1609 OF M/S.3M (OR) XIAMETER PMX-200 SILICON FLUID 350 CST OF M/S.DOW CORNING (OR) SILICON 20-300-000-350 CST OF M/S.MATRIX SPECIALTY LUBRICANTS IN 400ML/500ML AEROSOL CONTAINER.
269	80014975	OIL SERVO PRESS 150 RR OF IOC ,HYCOM 150 P OF HPC AND MAK COMPRESSOR OIL 150 OF BPC(LUBE OIL FOR EXPRESSOR) USED FOR BG AND MG DIESEL ELECTRIC LOCOS. (OR EQUIVALENT BRAND AS APPROVED BY RDSO IN THEIR LATEST PANEL/ MAINTENANCE INSTRUCTIONS)
270	80031365	GREASE FOR APPLICATION ON TRACTION MOTOR GEAR CASE OF ALCO DIESEL LOCOS: SERVOCOAT 170-T (IOC)/ BLUE COAT- 3 (BL and CO.)/ MAK CAMEX COMPOUND-(G) (BPC)/BALMEROL PROTOTRAC LUBE OF (M/S.BL and CO.)
271	80090280	INHIBITED MINERAL INSULATING OIL AS PER TYPE II TRANSFORMER OIL OF IS 335:2018 AND RAILWAY'S REQUIREMENT AS PER RDSO
272	81034878	SILICA GEL SELF INDICATING COARSE BLUE IN 5 KGS PACKETS IS. 3401/1992 OF SIZE 6 MM WITH 20% ABSORBING CAPACITY TO BE USED IN ELECTRICAL SWITCH GEAR AND TRANSFORMERS.
273	85011794	SINGLE ROW DEEP GROOVE(SRDG) BALL BEARING TYPE 6304 WITH C3 CLEARANCE BRANDS OF SKF/EUROPE, INDIA,SCHAEFFLER/EUROPE, INDIA (BRAND NAME; FAG) M/S.NEI, JAIPUR (BRAND NAME-NBC), M/S.TATA STEEL LIMITED , M/S NRB BEARINGS LIMITED JALNA MAHARASHTRA, AND M/S TEXSPIN BEARINGS LIMITED, OR ANY OTHER RDSO APPROVED BRANDS ONLY WILL BE ACCEPTED.
274	85011800	Single Row Deep Groove (SRDG) BALL BEARING Type 6305 WITH C3 CLEARANCE FOR TRANSFORMER OIL PUMP MOTOR. BRANDS OF SKF/EUROPE, INDIA, SCHAEFFLER/EUROPE, INDIA (BRAND NAME; FAG) , M/S.NEI, JAIPUR (BRAND NAME-NBC), M/S. TATA STEEL LIMITED,M/S NRB BEARINGS LIMITED JALNA MAHARASHTRA, AND M/S TEXSPIN BEARINGS LIMITED, OR ANY OTHER RDSO APPROVED BRANDS ONLY WILL BE ACCEPTED.
275	85011812	SINGLE ROW DEEP GROOVE BALL BEARING 30 MM BORE x 72 MM OUTER DIA X 19 MM WIDTH BEARING NO 6306 WITH C3 CLEARANCE. MAKE SKF/EUROPE,SCHAEFFLER KG/GERMANY, ROMANIA,ITALY(FAG),SKF(INDIA),FAG BEARING INDIA LTD/VADODARA,NEI.JAIPUR (BRAND NAME-NBC) OR TATA STEEL LIMITED (BEARING DIVISION) KHARAGPUR.
276	85011850	SINGLE ROW DEEP GROOVE BALL BEARING 50 MM BORE X 110 MM OUTER DIA X 27MM WIDTH BEARING NO.6310 WITH C3 CLEARANCE. MAKE SKF/EUROPE,SCHAEFFLER KG/GERMANY,ROMANIA,ITALY(FAG),SKF(INDIA),FAG BEARING INDIA LTD.,/VADODARA, NEI JAIPUR(BRAND NAME-NBC). OR TATA STEEL LIMITED (BEARING DIVISION) KHARAGPUR.
277	85011873	DEEP GROOVE SINGLE ROW BALL BEARING TO SKF NO. 6312 WITH C3 CLEARANCE OR EQUIVALENT MAKE SKF / SCHAEFFLER / NEI / TATA / NRB / TEXSPIN OR ANY OTHER RDSO APPROVED BRAND ONLY.
278	85011885	SINGLE ROW DEEP GROOVE BALL BEARING 65 MM BORE SIMILAR TO SKF.NO.6313 WITH C3 CLEARANCE OF RDSO APPROVED MAKE: SKF/EUROPE, OR SCHAEFFLER KG/GERMANY,ROMANIA,ITALY(FAG), OR SKF(INDIA), FAG BEARINGS INDIA LTD./VADODARA, OR NEI, JAIPUR (BRAND NAME-NBC) OR TATA STEEL LIMITED (BEARING DIVISION) KHARAGPUR.
279	85011915	SINGLE ROW DEEP GROOVE BALL BEARING 80MM BORE SIMILAR TO SKF BEARING NO.6316 WITH C3 CLEARANCE. MAKE: SKF/EUROPE, SCHAEFFLER KG/GERMANY, ROMANIA, ITALY (FAG) SKF(INDIA), FAG BEARING INDIA LTD./VADODARA, NEI JAIPUR (BRAND NAME- NBC) OR TATA STEEL LIMITED (BEARING DIVISION) KHARAGPUR.

Must change item for conventional Locomotives during POH

**LIST OF MUST CHANGE ITEMS FOR CONVENTIONAL LOCOS AS PER Final Letter to ZRs and PUs \_ Workshops for circulating RB recommendations on Committee Report on POH activities DT 13.1.23/18.1.2023**

SN	PL No	Desc	Reference of RDSO COMMITTEE Report No.	Cat
1	11022152	Snubber Arrangement RDSO Drg. No. SK.DL. 2089 A alt.3 with all part drgs.	Annex-CONV-11(ii)	B2
2	11022607	EQUALISER BEAM SHORT RDSO DRG NO :- SK.VL-178, alt (5) (REF-NO.2) RDSO SPECN :- 1) MP.O.4900.11. (Rev.01) Jan.10). 2) MP. STR. VL-01.01.06 (Rev.00) Apr. 2006.	Annex-CONV-11(iii) 2ND POH	C1
3	11123187	Equaliser beam long to RDSO Drg. No. SK.VL-178 Alt [5]. [Item 1]	Annex-CONV-11(iii) 2ND POH	C1
4	11164384	EQUALISER BEAM PIN TO RDSO DRG NO. SKVL.178 ALT 2 REF.NO.4.	Annex-CONV-11(iv)	C2
5	11230083	Brake Shoe Key to DLW Drg. No. TPL- 0026 Alt. 'g' (Pt. No. 11230083).	Annex-CONV-12(ii)	C1
6	11663236	LOCO SIDE BUFFER ASSLY (RUBBER SPRING TYPE) TO RDSO DRG.NO.SK.DL- 4561 ALT 1 WITH ALL PART DRGS. 1) SK.DL-4562 ALT 1. 2) SK.DL-4563 ALT NIL. 3) SK.DL-4564 ALT 1. 4) SK.DL-4565 ALT 1. 5) L/BD - 655/M ALT 6.With RDSO SPEC. NOS. MP.O.41.00.03(REV.01) AUGUST 2005 AND MP.O.41.00.04 (REV.03) OCT.2011 (OLD PL - 11663248 closed)	Annex-CONV-10(v) &Annex-3Ø-A-6(i) (2ND POH FOR P7 P5 & CONVENTIONAL LOCO) MCT IN WAG9	B2
7	11814380	SET OF POLY URETHENE SPRING PADS 1) SPRING PAD (PRIMARY OUTER ) TO RDSO DRG.NO.SK.VL-458 ALT.1 2) SPRING PAD (PRIMARY INNER) TO RDSO DRG.NO.SK.VL-459, ALT.1 RDSO SPECIFICATION NO.MP.O.40.99.01 (REV.02) (OCT.2008).	Annex-CONV-11(vi)	C1
8	11891798	M-48 OVERHAULING KIT CONSISTING OF 17 ITEMS FOR VAPORID MAKE AIR DRYER (ANNEXURE SHEET ATTACHED).	Annex-CONV-10(x)	C1
9	22540027	Cylindrical Roller Bearing NH 318/M/C4-VA 301 (Comprising of Bearing NJ 318-M/C4-VA 301) + Angle Ring HJ 318/VA 301 for Traction Motor application. Note: This item is restricted for RDSO approved firms only. [FOR LOCO]	Annex-CONV-1(x)	C1
10	22540120	Cylindrical Roller Bearing SKF NU-328 ECM/C4/VA-301 or FAG NU328 EM1C4F1. Note: "Item reserved for purchase from RDSO approved sources only.	Annex-CONV-1(ix)	B2
11	22540131	CYLINDRICAL ROLLER BEARING SKF No. NJ 324 ECMA P64 PVA 301 PLUS HJ 324EC/VA 301 (SHOULDER GUIDED) OR FAG NO. NJ 324 EM1A. P6R-155,195 F1 PLUS HJ 324F1 (SHOULDER GUIDED) FOR CUMMUTATOR END OF HITACHI TRACTION MOTOR. NOTE: ITEM RESERVED FOR RDSO APPROVED SOURCES ONLY	Annex-CONV-1(x)	A
12	23077750	Sanding hose coupler size 1"x33"TO drg. no.ELW/BSL/WAM-4/1/F.94.044 ALT-2, Ref. A (1 to 10).(This item is reserved for CLW approved sources only)	Annex-CONV-11(ix)	B2
13	23077773	FLANGE FOR SAND EJECTOR TYPE GF DRG NO. ELW/BSL/4/F74.073.	Annex-CONV-11(ix)	C1
14	23131652	HIGH TENSILE C B COUPLER WITH UNCOUPLING GEAR TO RDSO DRG. NO. SKDL 3430 WITH LATEST ALTERATION. ITEM NO. 1 TO 23 EXCEPT ITEM NO. 18 i.e. DRAFT GEAR. THIS ITEM IS RESTRICTED FOR PROCUREMENT FROM RDSO APPROVED SOURCES ONLY.	Annex-CONV-10(vi) & Annex-3Ø-A-5(i)	A
15	23156983	WIPER MOTOR ASSEMBLY COMPLETE AS PER CLW Drg. NO. CLW/AC/163 ALT 3. REF. NO. 1 TO 3 AND 5 TO 10. (This item is reserved of CLW approved sources only.)	Annex-CONV-8(xi)	B2
16	23158475	1" CHECK VALVE FOR VACUUM BRAKE TO WSF PT. NO. IC-70032/2 C&D NO. 5112/F315/039. EACH UNIT SHOULD BE EMBOSS/ENGRAVED WITH MAKER'S NAME, MONTH, YEAR & BATCH NO. OF MANUFACTURING AT A CONSPICUOUS PLACE.	Annex-CONV-12(vii)	C1
17	23158530	1-1/4" Non Return valve assly.type 86R (Teflon seated) to drg. no.ELW/BSL/1/WAM-4/F74.094 Ref. no. 1 to 10.	Annex-CONV-12(vii)	C1
18	23158803	3/8" Lever Operated Horn Valve To WSF PT.NO. IB-70141/2. Pamphlate NO. AI-217/1 For Electric Loco.EACH UNIT SHOULD BE EMBOSS/ENGRAVED WITH MAKERS NAME, MONTH, YEAR & BATCH NO. OF MANUFACTURING AT A CONSPICUOUS PLACE.	Annex-CONV-12(viii)	C1
19	23159947	3/4" CHECK VALVE TO WSF PT.NO. IC-70032/3 PAMPHLET NO. AI-221 SUPPLEMENT-1. EACH UNIT SHOULD BE EMBOSS/ENGRAVED WITH MAKERS NAME, MONTHS, YEAR & BATCH NO. OF MANUFACTURING AT A CONSPICUOUS PLACE.	Annex-CONV-12(vii)	C1



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41	23308060	HEX HEAD BOLT M.S. M6 x 35mm. TO IS:1364/2002 (PART-1) P.C.-4.6 ZINC PLATED. Description changed as per BSL letter No. BSL/ACL/L-IV/19 dT. 02/3/2010.	Annex-CONV-12(vi)	C1
42	23308072	SET OF SPECIAL HEXAGONAL BOLTS (BRASS) FOR MOTOR CONTACTOR AS PER CLW DRG. NO: 4.TWD.112.080 ALT-8.REFER NO.01 to 03 . SET COMPRISING OF 03 ITEMS = 07 NOS.	Annex-CONV-9(xiv)	C1
43	23308084	HEX HEAD BOLT M6 x 25/21mm. (THREADED LENGTH) TO IS:1364/2002 (PART-1) P.C.-4.6 ZINC PATED. Description changed as per BSL letter No. BSL/ACL/L-IV/19 dT. 02/3/2010.	Annex-CONV-9(xiv)	C1
44	23317942	MS HEX NUT M6 TO IS:1364/2002 (PT-3)/ISO:4032 ZINC PLATED. Description changed as per BSL letter No. BSL/ACL/L-IV/19 dT. 02/3/2010.	Annex-CONV-12(vi)	C1
45	23317954	MS HEX NUT M10 TO IS:1364/2002 (PT-3)/ISO:4032 ZINC PLATED. Description changed as per BSL letter No. BSL/ACL/L-IV/19 dT. 02/3/2010.	Annex-CONV-11(vi)	C1
46	23317966	HEX NUT (MS) M 16 TO IS:1364/2002 (PART-3) P.C.-4 ZINC PLATED. Description changed as per BSL letter No. BSL/ACL/L-IV/19 dT. 02/3/2010.	Annex-CONV-11(vi)	C1
47	23317978	HEX NUT (MS) M12 TO IS:1364/2002 (Pt-3) P.C.-4 ZINC PLATED. Description changed as per BSL letter No. BSL/ACL/L-IV/19 dT. 02/3/2010.	Annex-CONV-11(vi)	C1
48	23317980	HEX NUT (MS) M14 TO IS:1364/2002 (Pt-3) P.C.-4 ZINC PLATED. Description changed as per BSL letter No. BSL/ACL/L-IV/19 dT. 02/3/2010.	Annex-CONV-11(vi)	C1
49	23317991	HEX NUT (MS) M5 TO IS:1364/2002 (Pt-3) P.C.-4 ZINC PLATED. Description changed as per BSL letter No. BSL/ACL/L-IV/19 dT. 02/3/2010.	Annex-CONV-12(vi)	C1
50	23318004	HEX NUT (MS) M4 TO IS:1364/2002 (Pt-3) P.C.-4 ZINC PLATED. Description changed as per BSL letter No. BSL/ACL/L-IV/19 dT. 02/3/2010.	Annex-CONV-12(vi)	C2
51	23318016	HEX NUT (MS) M8 TO IS:1364/2002 (Pt-3) P.C.-4 ZINC PLATED. Description changed as per BSL letter No. BSL/ACL/L-IV/19 dT. 02/3/2010.	Annex-CONV-12(vi)	C1
52	23318570	NYLOCK NUT SELF LOCKING M16X2mm. PITCH (ZINC PLATED) SPARE FOR SMOOTHING REACTOR TO DRG.NO. ELW/BSL/WAM4/4/116.068 ALT.1, REF. NO. 1. DESRIPTION CHANGED AS PER BSL LETTER NO. DTD 07/10/2008.	Annex-CONV-11(vi)	C1
53	23318582	NYLOCK SELF-LOCKING M6 ZINC-PLATED NUT TO DRG.NO.ELW/BSL/WAM4/4/116.068ALT-1. REF.NO.2 (descrip. change AS PER BSL LETTER dt.14.12.07)	Annex-CONV-9(xiv)	C2
54	23330788	TENSION BOLT FOR MAIN SPRING OF PANTOGRAPH TYPE AM-12 TO DRG. NO. ELW/BSL/4/F-97.046. Description changed as per BSL letter No. BSL/ACL/L-IV/19 dT. 02/3/2010.	Annex-CONV-3(ii)	C1
55	23335038	HEX SOCKET HEAD CAP SCREW M6X18mm (STRAIGHT KNURLING) TO IS:2269.P.12.9. FROM RDSO/CLW/CEE APPROVED SOURCES ONLY. MANUFACTURES NAME AND PROPERTY CLASS MUST BE EMBOSSED/INDENTED ON HARDWARES.	Annex-CONV-9(xviii)	C2
56	23335816	HEX. HEAD SLOTTED SCREW M3 x 12mm. TO IS:1364/2002 (PART-2)-P.C.-4.6 ZINC PLATED (SPARE FOR RELAY). Description changed as per BSL letter No. BSL/ACL/L-IV/19 dT. 02/3/2010.	Annex-CONV-12(vi)	C2
57	23336948	HEX HEAD SCREW M8 x 40mm. TO IS-1364/2002 (PT-2)-P.C. 10.9 ZINC PLATED. FROM RDSO/CLW APPROVED SOURCES ONLY. Description changed as per BSL letter No. BSL/ACL/L-IV/19 dT. 02/3/2010.	Annex-CONV-9(xvii)	C1
58	23337709	HEX HEAD SCREW-IS:1364/2002 (Pt-2)/ISO 4017-M16x40mm-P.C.-8.8 -ZINC PLATED.From RDSO/CLW/CEE APPROVED SOURCES ONLY MANUFACTURER'S NAME AND PROPERTY CLASS MUST BE EMBOSSED/INDENTED ON HARDWARES.	Annex-CONV-9(xviii)	C1
59	23337722	HEX HEAD SCREW (MS) M6 x50mm. TO IS:1364/2002 (PART-2) P.C.-4.6 ZINC PLATED. Description changed as per BSL letter No. BSL/ACL/L-IV/19 dT. 02/3/2010.	Annex-CONV-12(vi)	C1
60	23337734	HEX HEAD SCREW M8 x50mm. TO IS:1364/2002 (PART-2) P.C.-4.6 ZINC PLATED. Description changed as per BSL letter No. BSL/ACL/L-IV/19 dT. 02/3/2010.	Annex-CONV-11(vi)	C1
61	23337746	HEX HEAD SCREW (MS) M10 x 45mm. P.C.-8.8 ZINC PLATED IS:1364/2002 (Pt-2) /ISO/4017.FROM RDSO/CLW APPROVED SOURCES ONLY. Description changed as per BSL letter No. BSL/ACL/L-IV/19 dT. 02/3/2010. MANUFACTURERS NAME AND PROPERTY CLASS MUST BE EMBOSSED INDENTED ON MATERIAL.	Annex-CONV-11 (vi)	C1

62	23337758	HEX. HEAD SCREW IS:1364/2002 (Pt-2)ISO-4017 M12X 30MM. P.C.-8.8 ZINC PLATED. FROM RDSO/CLW APPROVED SOURCES ONLY. MANUFACTURER'S NAME AND PROPERTY CLASS MUST BE EMBOSSED / INDICATED ON HARDWARES. NOTE TO FIRM:- THIS ITEM IS RESERVE ONLY FOR CLW APPROVED SOURCES. DESCRIPTION CHANGED AS PER BSL LETTER NO. BSL/ACL/L-IV/19 DT. 02/3/2010.	Annex-CONV-9(xvii)	C1
63	23337771	HEX. HEAD SCREW IS:1364/2002 (Pt-2)ISO-4017 M16X 90MM. P.C.-8.8 ZINC PLATED. FROM RDSO/CLW APPROVED SOURCES ONLY. MANUFACTURER'S NAME AND PROPERTY CLASS MUST BE EMBOSSED / INDICATED ON HARDWARES. NOTE TO FIRM:- THIS ITEM IS RESERVE ONLY FOR CLW APPROVED SOURCES. DESCRIPTION CHANGED AS PER BSL LETTER NO. BSL/ACL/L-IV/19 DT. 02/3/2010.	Annex-CONV-11(vi)	C1
64	23337783	HEX HEAD SCREW M12x45mm. IS:1364/2002 (PT-II) ZINC PLATED. MATERIAL SHALL BE PROCURED FROM RDSO/CLW APPROVED SOURCES. DESCRIPTION CHANGED AS PER BSL LETTER NO. BSL/ACL/L-IV/19 DT. 02/3/2010.	Annex-CONV-11 (vi)	C1
65	23337795	HEX HEAD SCREW (MS) M12 X 60 mm. ZINC PLATED TO IS-1364/2002 (PT-2). DESCRIPTION CHANGED AS PER BSL LETTER NO. BSL/ACL/L-IV/19 DT. 02/3/2010.	Annex-CONV-11 (vi)	C1
66	23337801	HEX HEAD SCREW (MS) M10 X50mm. ZINC PLATED TO IS:1364 (PT-2). DESCRIPTION CHANGED AS PER BSL LETTER NO. BSL/ACL/L-IV/19 DT. 02/3/2010.	Annex-CONV-11 (vi)	C1
67	23337837	HEX. HEAD SCREW IS:1364/2002 (Pt-2)/ISO 4017 M14 x 70 mm. TO P.C.-8.8 ZINC PLATED. FROM RDSO/CLW APPROVED SOURCES ONLY. MANUFACTURER'S NAME AND PROPERTY CLASS MUST BE EMBOSSED / INDICATED ON HARDWARES. NOTE TO FIRM:- THIS ITEM IS RESERVE ONLY FOR CLW APPROVED SOURCES. DESCRIPTION CHANGED AS PER BSL LETTER NO. BSL/ACL/L-IV/19 DT. 02/3/2010.	Annex-CONV-11 (vi)	C1
68	23337849	HEX HEAD SCREW IS:1364/2002 (Pt-2)ISO-4017 M14x 40mm. P.C.-8.8 ZINC PLATED. FROM RDSO/CLW APPROVED SOURCES ONLY. MANUFACTURER'S NAME AND PROPERTY CLASS MUST BE EMBOSSED / INDICATED ON HARDWARES. NOTE TO FIRM:- THIS ITEM IS RESERVE ONLY FOR CLW APPROVED SOURCES. DESCRIPTION CHANGED AS PER BSL LETTER NO. BSL/ACL/L-IV/19 DT. 02/3/2010.	Annex-CONV-11(vi)	C1
69	23337850	HEX HEAD SCREW (MS) M6 x 20mm. TO IS:1364/2002 (PART-2) P.C-4.6 ZINC PLATED. DESCRIPTION CHANGED AS PER BSL LETTER NO. BSL/ACL/L-IV/19 DT. 02/3/2010.	Annex-CONV-1(x)	C1
70	23337904	HEX HEAD SCREW (MS)M8 x 25mm TO IS:1364/2002(PT-2)-P.C.-4.6-ZINC PLATED. DESCRIPTION CHANGED AS PER BSL LETTER NO. BSL/ACL/L-IV/19 DT. 02/3/2010.	Annex-CONV-12(vi)	C1
71	23337916	HEX HEAD SCREW M8 x 30mm TO IS:1364/2002(Pt-2) P.C.-4.6-ZINC PLATED.	Annex-CONV-12(vi)	C1
72	23337928	HEX HEAD SCREW-IS:1364/2002(PT-2)ISO 4017-M14x 35MM -P.C.-8.8-ZINC PLATED FROM RDSO/CLW APPROVED SOURCES ONLY. MANUFACTURER'S NAME AND ADDRESS CLASS MUST BEMBOSSED/INDENTED ON HARDWARES. DESCRIPTION CHANGED AS PER BSL LETTER NO. BSL/ACL/L-IV/19 DT. 02/3/2010.	Annex-CONV-11(vi)	C1
73	23337965	HEX HEAD SCREW IS:1364/2002 (Pt-2)/ISO 4017 M10 x 30 mm. P.C.-8.8 ZINC PLATED. FROM RDSO/CLW APPROVED SOURCES ONLY, MANUFACTURER'S NAME AND PROPERTY CLASS MUST BE EMBOSSED/INDENTED ON HARDWARES. DESCRIPTION CHANGED AS PER BSL LETTER NO. BSL/ACL/L-IV/19 DT. 02/3/2010.	Annex-CONV-11(vi) & Annex-CONV-7(ii)	C1
74	23337990	HEX HEAD SCREW (MS) M6x15mm. ZINC PLATED TO IS:1364/2002 (Pt-2)	Annex-CONV-9(xiv)	C1
75	23338003	HEX HEAD SCREW (MS) M6x 10mm. ZINC PLATED TO IS:1364/2002 (PT-2). DESCRIPTION CHANGED AS PER BSL LETTER NO. BSL/ACL/L-IV/19 DT. 02/3/2010.	Annex-CONV-12(vi)	C2
76	23338015	HEX HEAD SCREW (MS) M12x 40mm. ZINC PLATED TO IS:1364/2002 (PT-2). DESCRIPTION CHANGED AS PER BSL LETTER NO. BSL/ACL/L-IV/19 DT. 02/3/2010.	Annex-CONV-11(vi)	C1
77	23338027	HEX HEAD SCREW (MS) M12 x 25mm. ZINC PLATED TO IS:1364/2002 (PT-2). DESCRIPTION CHANGED AS PER BSL LETTER NO. BSL/ACL/L-IV/19 DT. 02/3/2010.	Annex-CONV-11 (vi)	C1
78	23338039	HEX HEAD SCREW IS:1364/2002 (Pt-2)/ISO-4017 M10 x 20mm. P.C.-8.8 ZINC PLATED. FROM RDSO/CLW APPROVED SOURCES ONLY, MANUFACTURE'S NAME AND PROPERTY CLASS MUST BE EMBOSSED/INDENTED ON HARDARES. DESCRIPTION CHANGED AS PER BSL LETTER NO. BSL/ACL/L-IV/19 DT. 02/3/2010.	Annex-CONV-12(vi)	C1

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106	23513433	SET OF ENDCOVERS FREEEND AND FLY END FOR ELGI COMPRESSOR TRC-1000 MN AS PER ELGI PART NO.(1) 000318090 QTY=01 NO(2) 000317770 QTY=01NO.ONE SET CONSISTS OF 02 ITEMS 02 NOS.	2ND POH Annex-CONV-2(xiv)	C1
107	23513720	SET OF DISC VALVE ASSLY. FOR ELGI COMPRESSOR TYPE TRC-1000 MN SET COMPRISING OF 02 ITEMS 03 NOS AS PER SKETCH NO.BSL/ELW/SK.NO.5002 ALT-1 (TPL 23990429 CLOSED)	Annex-CONV-2(v)	A
108	23513779	SET OF PISTON RINGS FOR ELGI MAKE COMPRESSOR TYPE TRC-1000 MN COMPRISING OF 06 ITEMS 14 NOS. AS PER SKETCH NO.BSL/ELW/SK.NO.5000. (A) PISTON RING DIA 100 MM.PART NO:022401059 CONSISTING FOLLOWING 03 ITEMS. 1)PLAIN COMPRESSOR RING PART NO:000416850 =04 NOS. 2)STEPPED COMPRESSION RING PART NO:000417570 =02 NOS. 3)SLOTTED OIL CONTROL RING PART NO:000416860 =04 NOS. SET OF 3 ITEMS 10 NOS.(B)PISTON RING DIA 60 MM. PART NO: 022401039 CONSISTING FOLLOWING 03 ITEMS. 1) PLAIN COMPRESSOR RING PART NO: 000416850 =04 NOS.	Annex-CONV-2(v)	C1
109	23513780	SPARES FOR AUXILIARY COMPRESSOR TYPE CRC-150.ONE SET CONSISTS OF 12 ITEMS 24 NOS.,AS PER ANNEXURE ATTACHED.	Annex-CONV-12(ii) & (iv)	C1
110	23516872	STUD M10 x 39 FOR AUX. COMPRESSOR TYPE CRC-150 TO M/S ELGI's DRG.NO. 260514520.	Annex-CONV-12(i) & (ii)	C2
111	23517098	CARBON BRUSH FOR AUXILLARY COMPRESSOR MOTOR TO DRG.NO. BSL/ELW/4/F84.031 ALT-2.	Annex-CONV-12(ii)	C1
112	23519551	PACKING RING PT.NO. 000521860, SPARE FOR ELGI COMPRESSOR TRC 1000 MN.	Annex-CONV-12(i)	C2
113	23519575	"DRY TYPE SUCTION FILTER (MODIFIED)TO PART NO.070309310 FOR ELGI COMPRESSOR MODEL TRC 1000MN"	Annex-CONV-12(iv)	B2
114	23561889	PIN TO M/S. ADTRANZ's PT.NO. S1210, DRG.NO. AG-544326 P1 OR M/S. AAL PT. NO. G1210, SPARE FOR TAP CHANGER TYPE NO 32.	Annex-CONV-7(ii)	C2
115	23562183	CONTACT ROLLER GUIDE TO M/S. ADTRANZ PT. NO. S.1516 OR M/S. AAL PT. NO. G1516 AS PER RDSO DRG.NO. SKEL-4648 SHEET NO. 1&2 SPARE FOR TAP CHANGER TYPE NO.32.	Annex-CONV-7(ii)	C1
116	23563412	SPRING RETAINER COMPLETE TO M/S. ADTRANZ PT.NO. 2328/S-2537 OR M/S. AAL PT. NO. G2537 AS PER RDSO DRG.NO. SKEL-4649 SHEET NO. 1 & 2 ALT-1 SPARE FOR CONTACT SYSTEM COMPLETE OF TAP CHANGER TYPE NO.32.	Annex-I-9(iv)	C1
117	23563450	SUPPORTING PIN TO M/S ADTRANZ's PT.NO. 2332/S2534, DRG.NO. AG-540915 P1, SPARE FOR CONTACT SYSTEM OF TAP CHANGER TYPE NO. 32.	Annex-CONV-7(ii)	C1
118	23564581	SEALING RING or 'U'SECTION RING BT ITEM NO. A 2303 AS PER DRG. NO. SWT-435461-P1 OR AAL ITEM NO. M2303 AS PER DRG. NO. 9910383748001 OR SKEL-3463, RDSO SPEC/E-4/01"ITEM TO BE PROCURED FROM APPROVED SOURCES AS PER RDSO TC 0102 REV-O DATED 12.05.2010. EACH UNIT SHOULD BE EMBOSS/ENGRAVED WITH MAKERS NAME, YEAR AND BATCH NO. OF MANUFACTURING AT A CONSPICUOUS PLACE	Annex-CONV-7(ii)	C1
119	23565299	Auxiliary switch complete to CLW Drg.no.4TWD .101.138.ALT.6 (Total 12 sheets) for tap changer type no. 32.(THIS ITEM IS RESERVED FOR CLW APPROVED SOURCES ONLY.)	Annex-CONV-12(x)	B2
120	23568045	FOOT PEDAL SWITCH FOR ZSMGR PANEL TO M/S.ADTRANZ'S PT.NO.S-3925 DRG.NO. SWT-335181 R1.	Annex-CONV-8(xii)	C1
121	23568148	SIEMENS MAKE PROGRAMME SWITCH (ZSMS) TYPE NO. 3LAO-270-3YW103W WITH HOUSING.	Annex-CONV-9(xii)	C1
122	23596030	CABLE LUG 3 sq. mm insulated WITH METAL REINFORCEMENT FOR SOLDERLESS CRIMPING of copper conductor TO M/S DOWELL's CAT.NO. 8372.stud hole dia-5.2mm	Annex-CONV-12(i)	C1
123	23609618	CABLE LUG 10 sq mm square FOR SOLDERLESS CRIMPING Of COPPER CONDUCTOR TO DOWELL'S CAT NO. CUS-228.stud hole dia-6.2mm	Annex-CONV-12(i)	C1
124	23609620	CABLE LUG 2.5sq.mm INSULATED WITH METAL REINFORCEMENT for SOLDERLESS CRIMPING TO COPPER CONDUCTOR AS PER M/S DOWELS CAT NO.7455.(5.2 mm DIA STUD HOLE)	Annex-CONV-12(i)	C1
125	23609722	NYLON INSULATOR FOR BA PANEL TO CLW DRG.NO. CLW/ES/SK-1/I-3/C.	Annex-CONV-9(xiv)	C1
126	23609760	SLEEVE FOR 19 PIN INTERNAL COUPLER AS PER SKETCH NO. CLW.ES/SK-2/C-9 ALT-M. REF.-6.	Annex-CONV-12(v)	C1
127	23609813	SET OF SPARE GASKET FOR ELECTRIC LOCOMOTIVE CONSISTING 05 ITEMS = 122 NOS. ONLY AS PER SKETCH NO: ELW/BSL/SK NO:9076. (DESCRIP. CHANGED AS PER BSL LETTER DT.23.06.2008)	Annex-CONV-12(i)	C1

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188	23883170	CYLINDER SUPPORT ITEM REF. 17.6 TO M/S. SIL ORD. REF. S000291 FOR UPPER ARTICULATION ASSLY FOR PANTOGRAPH TYPE AM-12.EACH UNIT SHOULD BE EMBOSS/ENGRAVED WITH MAKERS NAME, MONTH, YEAR & BATCH NO. OF MANUFACTURING AT A CONSPICUOUS PLACE.(THIS ITEM IS RESERVED FOR RDSO APPROVED SOURCES ONLY.)	Annex-CONV-3(ii)	C1
189	23883182	Support Rod Cylinder for upper Articulation Assly. to M/S. SIL ORD Ref. S000295 Pt. No. 17.10 CONFIRMING TO MOD NO. ELRS/MS/0333. DRG.NO.SKEL 4682 ALT.0 WITH SPRINGS OF MODIFIED STIFFNESS 0.5+- 5% KG/MM FOR PANTOGRAPH TYPE AM-12. EACH UNIT SHOULD BE EMBOSS/ENGRAVED WITH MAKERS NAME, MONTH, YEAR AND BATCH NO. OF MANUFACURING AT A CONSPICUOUS PLACE.(THIS ITEM IS RESERVED FOR RDSO APPROVED SOURCES ONLY.)	Annex-CONV-3(ii)	C1
190	23883315	BOW ASSLY (PAN) ITEM REF.18 TO M/S SIL ORD. REF. S000308 WITHOUT METALISED CARBON STRIP AND BOTH HORNS TO SIL ORD. REF. S000309 SHOULD CONFIRM TO REDSO MOD. NO. ELRS/MS/0333 REV-0 AND DRG. NO. RDSO SKEL 4682 ALT-0 FOR PANTOGRAPH TYPE AM-12. EACH UNIT SHOULD B EMBOSS/ENGRAVED WITH MAKERS NAME, MONTH, YEAR AND BATCH NO. OF MANUFACTURING AT A CONSPICIOUS PLACE.(THIS ITEM IS RESERVED FOR RDSO APPROVED SOURCES ONLY.)	Annex-CONV-3(i)	C1
191	23883546	piston packing ring for panto servomotor as per M/S.SIL pt.no.S0221129100 or M/S GSEC,PT.NO.GSEC/PANTO/094 or M/S CONTRANSYS PT.NO.C01870.or M/S. Concept Rail's Drg No.0103149	Annex-CONV-3(ii)	C1
192	23883686	GUARD ITEM REF.NO.20.23 TO M/S SIL ORD.REF.S000347 FOR Pantograph type AM-12,EACH UNIT SHOULD BE EMBOSS/ENGRAVED WITH MAKERS NAME,MONTH YEAR AND BATCH NO.MANUFACTURING AT CONSPICUOUS PLACE OR FROM OTHER RDSO APPROVED SOURCES.	Annex-CONV-3(ii)	C1
193	23890101	SET OF CONTACT (FIXED & MOBILE) SILVER TIPPED FOR EP CONTACTOR TYPE TCP-3421-25 M COMPRISING OF 2 ITEMS 12 NOS. AS PER SKETCH NO.BSL/ELW/SK NO.9014 ALT-2	Annex-CONV-9(xiv)	C1
194	23890113	SET OF CONTACT FOR EM CONTACTOR COMPRISING OF 02 ITEMS = 48NOS. AS PER SKETCH NO: BSL/ELW/SK NO: 9020 ALT-1	Annex-CONV-9(vi)	C1
195	23890307	SHUNT ASSLY FOR CONTACTOR (C-118) AS PER DRG.NO.ELW/BSL/4/F-72.225.( AS PER CWM BSL L.DTD 17/3/2008)	Annex-CONV-12(ix)	C2
196	23890551	ARC CHUTE TO RDSO DRG NO. RDSO/EL/1/CPM-033 ALT-1	Annex-CONV-9(vi)	C1
197	23917544	FLEXIBLE SHUNT FOR HOOD FOR BODY TO DRG.NO. ELW/BSL/WAM-4/4/74.009, Alt.1.	Annex-CONV-12(ix)	C1
198	23917556	EARTHING SHUNT FOR HOM AS PER DRG. NO. ELW/BSL/3/WAG-4/12.110 ALT-4.	Annex-CONV-12(ix)	C1
199	23929017	Hood for Smoothing Reactor to CLW DRG.NO.05/1/50/440 ALT-7 & CLW SPECN.NO. M/EL/20/T5/1. NOTE:- THIS ITEM IS RESERVED FOR CLW APPROVED SOURCES ONLY.	Annex-CONV-10(viii)	B1
200	23930007	HEX HEAD SCREW M8 X 35MM IS: 1364/2002 (PT.2) P.C.4.6-ZINC PLATED. SPARE FOR TAP CHANGER. DESCRIPTION CHANGED AS PER BSL LETTER NO. BSL/ACL/L-IV/19 DT. 02/3/2010.	Annex-CONV-11(vi)	C2
201	23931577	ARC CHUTE COVER ASSLY. FOR ELECTRO MAGNETIC CONTACTOR TO CLW DRG.NO. 3.TWD.291.013 ALT.-5. (TOTAL 2 SHEETS)	Annex-CONV-9(vi)	C2
202	23942083	SET OF HIGH TENSILE HEX HEAD SCREW M24 x 55 QTY-06 Nos./SET AND M20 x 70 Qty-06 Nos./Set AS PER IS:1364 Pt.II B-8.8-RT-CD FOR HITACHI TM TYPE HS-15250A, To be procured from approved venders.MANUFACTURER's NAME AND PROPERTY CLASS MUST BE EMBOSS/ENGRAVED.	Annex-3Ø-D2(xiv)	C1
203	23942101	"LINER FOR TM HS-15250 A TO DRG.NO. 10.S.813.325 REV. 1.(Raw materials for the liners shall be procured from SAIL/TISCO/JINDAL only and proof of purchase shall be furnished by the firms at the time of inspection.)(Pleaes confirm this clause failing with	Annex-CONV-1(xii)	C1
204	23942113	Set of Arcing Stud AND FIXING BRACKET ASSEMBLY for BHRR of Hitachi TM Type HS-15250A AS PER RDSO DRG. NO. SKEL-4707 Alt-1. [One set consist of 02 items 12 Nos.] (06 NOS. ARCING STUD ASSEMBLY & 06 NOS. BRACKET ASSEMBLY.	Annex-CONV-1(xi)	C1

205	23958250	Blocking diode to CLW drg. no. CLW/ES/SK-1/D-1.ALT-B(THIS ITEM IS RESERVED FOR CLW APPROVED SOURCES ONLY.).	Annex-CONV-9(xviii(d))(Reverser CTF ckt) & 7(ii) Tap changer ckt	C1
206	23958522	SYNTHETIC RUBBER SHEET FOR CABLE TRENCHES ON THE CORRIDAR TO DRG.NO. ELW/BSL/WAM-4/86.24 ALT-3.	Annex-CONV-12(i)	C1
207	23958868	FIXED AND MOVING CONTACT FOR C-118 CONTACTOR TO DRG.NO.ELW/BSL/4/WAM-4/F90.248. Alt- 1.	Annex-CONV-9(xiv),(xvii)	C1
208	23960073	SET OF INSULATING COMPONENTS FOR SHUNTING CONTACTOR COMPRISING OF 11 ITEMS 466 NOS AS PER SKETCH NO. BSL/ELW/SK.NO.9019 ALT-2.	Annex-CONV-9(xiv)	C1
209	23960085	SET OF DISTANCE PIECES FOR EP CONTACTOR TYPE TCP-3421.25.M COMPRISING OF 04 ITEMS 222 NOS. AS PER SKETCH NO. BSL/ELW/SK.NO. 9018 ALT.2.	Annex-CONV-9(xiv)	C1
210	23968035	PISTON CUP FOR EP CONTRACTOR TO CLW DRG NO.4TWD.111.073 ALT-4.	Annex-CONV-9(xvii)	C1
211	23968163	NIPPLE ASSLY. FOR LINE CONTACTOR (FOR EP CONTACTOR AC LOCO) TO DRG.NO. ELW/BSL/3/WAG-4/27.170 ALT-1.	Annex-CONV-9(xiv)	C1
212	23968230	SELF LUBRICATING BUSH FOR EP CONTACTOR TO DRG.NO. ELW/4/WAG4/27.240. ALT-1.	Annex-CONV-9(xiv)	C1
213	23968242	DISTANCE TUBE FOR ARC CHUTE SUPPORT FOR EPC TYPE TCP 3421. 25. 2M TO CLW DRG.NO. 4.TWD.112.009 ALT-4.	Annex-CONV-9(xiv)	C2
214	23969167	Flexible shunt and mobile contact lever assembly for motor contactor to assly. drg.no. 2.TWD.112.030 ALT.-7 with part drgs.	Annex-CONV-9(xvii)	B2
215	23969866	AUX. CONTACT ASSLY. TO CLW DRG.NO. 3TWD.112.090 ALT-8 (SHEET-3)	Annex-CONV-9(xiv)	C1
216	23990235	SET OF CIRCLIP FOR LP AND HP ELGI MAKE COMPRESSOR TYPE TRC- 1000 MN.SET COMPRISING OF 02 ITEMS 06 NOS. AS PER SKETCH NO. BSL/ELW/SK.NO. 5009. ALT-1. (1) CIRCLIP B-20 ELGI PT. NO. 000917220. QTY / SET. 04 NOS. (2) CIRCLIP B-18. ELGI PT. NO. 000917218. QTY/ SET 02 NOS.	Annex-CONV-12(ii)	C2
217	23990855	SET OF SHIMS FOR EM CONTACTOR COMPRISING OF 03 ITEMS 30 NOS. AS PER SKETCH NO. BSL/ELW/SK NO. 9012.	Annex-CONV-9(vi)	C2
218	23991021	Set of spares for SA-9 Independent air brake valve comprising of 10 items 20 nos. as per Sketch no. BSL/ELW/SK NO. 9000 ALT.2. EACH UNIT SHOULD BE EMBOSS/ENGRAVED WITH MAKERS NAME, MONTH, YEAR AND BATCH NO. OF MANUFACTURING UNIT AT A CONSPICUOUS PLACE.(THIS ITEM IS RESERVED FOR RDSO APPROVED SOURCES ONLY )	Annex-CONV-9(xvi)	C1
219	23991070	SET OF SIEMENS PROGRAMME SWITCHES FOR WAG5 LOCO AS PER SKETCH NO. BSL/ELW/SK.NO.9035 ALT-4 SET COMPRISING OF 10 ITEMS 18 NOS.	Annex-CONV-9(xii)	A
220	23991124	SET OF CROSS LINKED POLYOLYFIN HEAT SHRINKAGE SLEEVE FOR CONTROL CABLES SKETCH NO. BSL/ELW/SK.NO. 9036 ALT-3.	Annex-3Ø-C-5(i)	C1
221	23991136	Set of cross linked polyolyfin heat shrinkage sleeve for power cables as per sketch no. BSL/ELW/SK.NO.-9037 alt-4.	Annex-CONV-12(i)	B2
222	23998015	"Auxillary contacts and supports assembly to CLW Drg.No.3TWD.112.090 Sheet no.1 Alt-7 and Part Drg.No.as per 4 TWD 112.090 ALT-5 (1 to 18 Sheets)"	Annex-CONV-9(xiv)	C1
223	24100055	SET OF HEX SOCKET HEAD CAP SCREW FOR TM SUSPENSION UNIT OF HITACHI WHEEL SET COMPRISING 4 ITEMS 38 NOS.AS PER SKETCH. NO.BSL/ELW/SK.NO.6030 ALT-4 . MANUFACTURER'S NAME & PROPERTY CLASS MUST BE EMBOSSSED / ON INDENTED ON HARDWARE.	Annex-CONV-1(viii)	C1
224	24160027	SET OF KITS FOR MISCELLANEOUS VALVE ON C3W MANIFOLD OF PNEUMATIC PANEL CONTAINING 06 SUB KITS, 29 ITEMS, AND 40 NOS. AS PER ANNEXURE ATTACHED.	Annex-3Ø-F-3(i),(ii)	B2
225	24250752	SET OF RUBBER ITEMS FOR TM TYPE HS-15250 A SET COMPRISING 05 ITEMS 42 NOS. AS PER SKETCH NO: BSL/ELW/SK NO:6022 ALT-2. SR. DESCRIP DRG. NO: QTY. 1. PACKING FOR TERMINAL BOX COVER 10S 813-673 ALT-A 12NOS. 2. PACKING FOR INSP. COVER 10S 778-684 ALT-1 06NOS. 3. PACKING FOR INSP. COVER 10S 813-668 ALT-C 12NOS. 4. RUBBER PLUG 10T 806-921 ALT-B 6NOS. 5. COVER PACKING 10S 778.709ALT-D. ITEM NO.2 06NOS. ALT-1	Annex-CONV-12(i)	C1
226	24600120	SET OF SPARE FOR BRUSH HOLDER TM TYPE HS-15250A, 1) ADJUSTING PIN TO DRG.NO. ELW/BSL/4/WAG-5/150.69, QTY=108 NOS. 2) PTFE SPACER TO DRG. NO.SKEL-4683 ALT 1, QTY=216 NOS. 3) SPECIAL WASHER TO DRG.NO. 10T.806.977 ALT.C, QTY=72 NOS. [ONE SET CONSISTS OF 03 ITEMS -396 NOS.]	Annex-CONV-1(xi)	C1

227	24940045	SET OF FELT FOR HITACHI T.M. GEAR CASE COMPRISING OF 4 ITEMS 54 NOS. AS PER SKETCH NO.BSL/ELW/SK.NO.9124 ALT.1.	Annex-CONV-11(vi)	C1
228	25010256	THROWER END COVER FOR AXLE BOX ASSLY. TO DRG.NO. ELW/BSL/3/F.61.041.	Annex-CONV-11(xi)	C1
229	25010918	AXLE BOX HOUSING WITH FULLY WELDED LINERS TO NEI. DRG. NO. 92-4271/C.ITEM NO.1B,21,22,& 23.	Annex-CONV-11(xi)	B2
230	25011704	CONICAL RUBBER THRUST PAD FOR AXLE BOX TO DRG. NO. SKDL-2308 ALT-1, SKDL-2309 & RDSO SPECN. NO: R 63-76(4 SHEET)	Annex-CONV-11(x)	C1
231	25018061	Axle Box Housing finished for WAG-7/WCAM-3 Loco as per CLW Drg.No.06/1/11/6 Alt-4,Grease nipple arrangement should be as per CLW Drg.No.06/1/11/4 Alt-7.The Axle box bushes should be as per ELW Drg.No.ELW/BSL/4/F64.041.Item Ref.No.4.	Annex-CONV-11(xi)	A
232	25018073	SET OF POLYAMIDE BUSHES FOR EQUALISER LINK COMPENS	Annex-CONV-11(iv)	C1
233	25018747	SET OF AXLE BOX BEARING COMPONENTS FOR WAG-7 & WCAM-3 LOCOS AS PER SK. NO. ELW/BSL/SK.NO.8016,ALT-1 SET CONSISTS OF 05 ITEMS = 52 NOS. (This Item is Reserved for RDSO Approved Sources Only)	Annex-CONV-11(xi)	A
234	25018802	AXLE BOX HOUSING WITH FULLY WELDED HORN FACE AND SIDE LINER FOR WAP-1 AND WAP-4 LOCOMOTIVE AS PER NEI DRG. NO:X-122 OR FAG. DRG. NO:901-26-102.AND SPRING SEAT COLLAR HEIGHT TO BE MAINTAINED 17MM AS PER RDSO M.S.MP.MOD.VI.01.03.05.[REV:00]EACH PIECE SHOULD BE EMBOSSED ENGRAVED WITH DRAWING NUMBER	Annex-CONV-11(xi)	B1
235	25018814	SET OF ROLLER BEARING, THROWER, DISTANCE PIECE, END RING and CLAMPING PLATE FOR AXLE BOX OF WAM-4/WAG-5 LOCO AS PER ELW/BSL/SK.NO.8008. Alt-1. 1 set consist of 5 items 6 Nos.	Annex-CONV-11(xi)	B2
236	25019053	SET OF COMPONENTS FOR AXEL BOX OF WAP-1 AND WAP-4 LOCOMOTIVE AS PER ELW/BSL/SK.NO.8017, ALT-1 SET CONSISTS OF 07 ITEMS -64 NOS	Annex-CONV-11(xi)	B2
237	25019089	LOCKING PLATE FOR AXLE BOX KEEPER PLATE FOR WAG-7/WAP-4 LOCO, AS PER CLW DRG. NO. 03/4/11/12.	Annex-CONV-11(vi)	C1
238	25040066	R/99/0003 PRIMARY SPRING SK-DL-3472, ALT-6 & Tech .SPECN No. MP.0.4900.12 (Rev.1)	Annex-CONV-11(i)	B2
239	25040078	SECONDARY SPRING FOR WAP-4 LOCO BOGIE AS PER DRG. NO.SKDL-3473,ALT-7.PAIRING OF SPRING AS PER COMPRESSED HEIGHT AT WORKING LOAD WITH GROUP-B (YELLOW COLOUR ONLY)	Annex-CONV-11(i)	B2
240	25040698	SPRING PAD (HAPPY PAD) FOR WAG/5 LOCO. DRG.NO. SKVL-323. ALT.1.	Annex-CONV-11(x)	B1
241	25048107	Outer Spring for WAG-5 Locomotive TO DRG. NO. SK.DL-3742, ALT.5-. PAIRING OF SPRING AS PER COMPRESSED HEIGHT WORKING LOAD WITH GROUP -B. (One No. of Metallic band only).This item is reserved for RDSO approved sources only.DESCRIP CHANGED AS PER BSL's LETTER Dt. 11/03/2010. Nos.	Annex-CONV-11(i)	B2
242	25048119	Inner Spring for WAG-5 LOCOMOTIVE TO DRG. NO. SK.DL-3743, ALT-5. PAIRING OF SPRING AS PER COMPRESSED HEIGHT WORKING LOAD WITH GROUP -B. (ONE No. OF METALIC BAND ONLY)(This item is reserved for RDSO approved sources only.)DESCRIP CHANGED AS PER BSL's LETTER Dt. 11/03/2010. Nos	Annex-CONV-11(i)	C1
243	25048144	SET OF SPRING PAD FOR WAP-1 and WAP-4 LOCOMOTIVE BOGIE TO RDSO SPECN. No. MP.O.40.99.01 [REV-LATEST] ONE SET CONSIST OF 02 ITEMS 80 Nos. [a] SPRING PAD [PRIMARY SUSPENSION] RDSO DRG. No. SK.VL-282 = 48 Nos.[b] SPRING PAD [SECONDARY SUSPENSION] RDSO DRG.NO. SK.VL-283 =32 NOS.	Annex-CONV-11(x)	B2
244	25048156	SET OF SUSPENTION SPRING (HELICAL) OF WAG-7 LOCO BOGIE COMPRISING OF 02 ITEMS 32 NOS. AS PER SKETCH NO.BSL/ELW/SK-NO.9111.ALT-5.PAIRING OF SPRING AS PER COMPRESSED HEIGHT WORKING LOAD WITH GROUP -B (One Band Only)	Annex-CONV-11(i)	A

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263	25109080	SET OF EQUALISER & LINK OF WAG-7 LOCO BOGIE COMPRISING OF 02 ITEMS=16 NOS.AS PER SKNO BSL/ELW/SK/ NO.9112 ALT.3.	Annex-CONV-11(iii)(2ND POH)	A
264	25109091	SET OF HEX HEAD BOLT & HEX SLOTTED NUT FOR HITACHI TM GEAR CASE OF 03 ITEMS 36 NOS AS PER SKETCH NO.BSL/ELW/SK.NO.9122 ALT-3.	Annex-CONV-11(vi)	C1
265	25109110	SET OF SPRING FOR WAP-1 BOGIE COMPRISING OF TWO ITEMS 48 NOS AS PER SKETCH NO. BSL/ELW/SK.NO.9067. ALT.1.(THIS ITEM IS RESERVED FOR RDSO APPROVED SOURCES ONLY) Set	Annex-CONV-11(i)	C1
266	25109121	SET OF HARDWARE FOR WAP-1 BOGIE COMPRISING OF 06 ITEMS 362 NOS. AS PER SKETCH NO. BSL/ELW/SK.NO. 9068 ALT-4 (TO BE PROCURED FROM CLW APPROVED SOURCES ONLY) MANUFACTURER'S NAME AND PROPERTY CLASS MUST BE EMBOSSED ON HARDWARE. Set	Annex-CONV-11(vi)	C1
267	25109133	Set of spring Seat WAP-1 AND WAP-4 LOCOMOTIVE BOGIE AS PER DRG NO.ELW/BSL/SK.NO.7036 ALT 1. ONE SET CONSISTS OF 04ITEMS 92 NOS. Set	Annex-CONV-11(vi)	C1
268	25109145	SPRING FOR FRICTION BOLSTER DEVICE AS PER . CLW DRG NO.03/4/16/3/ALT-7.	Annex-CONV-11(i)	C1
269	25109157	SET OF Mn.steel LINERS FOR WAG7 LOCO BOGIE COMPRISING of 03 items 146 Nos.AS PER sketch no. BSL/ELW/SK.NO.9115.ALT.3.Note-(Raw material for the liners shall be procured from SAIL/TISCO/JINDAL only, and proof and purchase shall be furnished by the firms at the time of inspection.)the proof of procurement of raw material should not be more than 6 months prior to date of dispatch of material. please confirm this clause in offer failing which offer will be summarily rejected.	Annex-CONV-11(vi)	B2
270	25109169	SET OF HARDWARE OF WAG-7 LOCO BOGIE COMPRISING OF 18 (Eighteen) ITEMS = 420 NOS. AS PER SKETCH NO: BSL/ELW/SK NO: 9116 ALT-4.	Annex-CONV-11(vi)	C1
271	25109820	RUBBER BUFFER SPRING [FOR CAPACITY 1500 KGM]TO RDSO DRG. NO. SK.DL-4565. ALT-1. RDSO SPECIFICATION NO. MP.0.41.00.04[REV.03] OCT-2011. THIS ITEM IS RESERVED FOR PROCUREMENT FROM RDSO APPROVED SOURCES ONLY.	Annex-3Ø-A-6(ii)	B2
272	25120190	SET OF STEP SIZE HORN SIDE LINER FOR AXLE BOX TO DRG No. TACMA-73 R1. ONE SET COMPRISING TWO ITEMS 3 Nos.	Annex-CONV-11(vi)	C1
273	25120700	PIVOT SIDE LINER TO CLW DRG. NO. 01/4/31/79 ALT-1	Annex-CONV-11(vi)	C1
274	25120750	PIVOT BOTTOM LINER TO CLW DRG. NO. 01/4/31/80 ALT-2.	Annex-CONV-11(vi)	C2
275	25120803	LOADING PAD ASSLY (SIDE BEARER) FOR WAM-4, WAG-5 & WCAM-1 TYPE LOCOS AS PER ELW DRG.NO. ELW/BSL/2/WAM-4/72.003 ALT-3 REF.NO. 1 TO 6 (ASSLY CONSISTING OF 6 ITEMS 6 NOS.) Nos.	Annex-CONV-11(iv)	C1
276	25120906	ALLUMINIUM RESILENT LINER FOR LOADING PAD ASSLY AS PER DRG.NO. ELW/BSL/2/WAM4/72.003 ALT-3 REF.NO. 3. Nos.	Annex-CONV-11(iv)	C2
277	25121005	LOADING PAD SHOE ALLUMINUM BRONZE LINER TO DRG. NO. ELW/BSL/2/WAM-4/72.003. ALT. 3.REF.NO.5.	Annex-CONV-11(iv)	C1
278	25121390	Cattle guard(modified) FOR WAM/4 & WAG/5 LOCOS CLW drg.no. 05/1/62/4 alt.2 with part drg.(This item is reserved for CLW approved sources only.)	Annex-CONV-10(ix) 2ND POH	B2
279	25121650	FOOT STEP ASSEMBLY TO DRG. NO. ELW/BSL/3/WAM-4/F79.115.ALT-1.	Annex-CONV-11(vii) 2ND POH	D
280	25128012	MODIFIED CATTLE GUARD ASSLY.FOR WAP1 & WAP3 TO CLW DRG. NO.03/1/62/83 ALT.1 & 03/1/62/84 alt 3.(This item is reserved for CLW approved sources only.) Nos.	Annex-CONV-10(ix) 2ND POH	C1
281	25128024	CENTRE BLOCK FOR WAG-7 LOCO. AS PER RDSO DRG. NO: SK.VL-294 REF. NO:3. Nos.	Annex-CONV-11(iv)	B2
282	25128152	Set of liners for centre pivot of WAP-1 loco comprising of 02 items =04 Nos. as per sketch no. BSL/ELW/SK.no. 9092.CLW Drg.no.details as under.1)side liner for centre pivot of WAP-1 loco To CLW Drg. no 03/4/31/51/Alt.2.=02 nos.2)bottem liner for centre Set	Annex-CONV-11(vi)	C1
283	25128401	STOPPER BOTTOM FOR CENTRE PIVOT ASSLY. OF WAG-7 LOCO AS PER RDSO DRG. NO. SKVL-294 REF.4. DESRIPTION CHANGED AS PER BSL LETTER NO. DTD 07/10/2008. Nos.	Annex-CONV-11(iv)	C1
284	25128462	FOOT STEP ARRANGEMENT FOR WAG-7 LOCO AS PER DRG. NO.NGP/TRS/3/13.020.	Annex-CONV-11(vii) 2ND POH	D
285	25138029	Modified transition screw coupling for E.S.C.C.B Coupler AS PER RDSO DRG.NO.SKDL-2494 ALT-17 & SKDL-2495 ALT-12 WITH SPECN.NO. MP-O-41-00-01 REV.01 OF APRIL 2003.	Annex-3Ø-A-5(ii)& (iii)	A
286	25138042	Set of Operating Handle Bracket for CBC, comprising of 3 items 8 Nos. as per Sketch No. BSL/ELW/SK.9094 Alt.1 Set	Annex-3Ø-A-6(ii)	C1

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328	25253451	GASKET FOR EXTERNAL COUPLER BRACKET (MOBILE) C&D NO. 5112/F313/036 DRG. NO. ELW/BSL/4/F82.002, ALT. 1.	Annex-CONV-12(i)	D
329	25254650	GASKET FOR AIR BRAKE CYLINDER AS PER DRG.NO:ELW/BSL/4.F.64.023.ALT-1.	Annex-CONV-11(viii)	C1
330	25254662	RESILIENT MOUNTING PAD ASSLY. FOR ARNO TO DRG. NO.ELW/BSL/3/F 72.213 ALT-2.	Annex-3Ø-F-1(vi)	C1
331	25254753	GASKET FOR SAND EJECTOR TO CLW DRG. NO. 05/4/60/35, ALT.6 MATERIAL AS PER IS 2712:1998 GRADE W/2.	Annex-CONV-12(i)	C2
332	25255459	SET OF GROMMET for AC-1 + 2 CAB FANS (SET consist 02 ITEMS - 20 Nos. TO DRG. NO: 1] ELW/BSL/4/F.72.021 ALT-2 Sr. No. 08 QTY -04 Nos. 2] ELW/BSL/4/F.72.012 ALT-3, REF.3 QTY- 16 Nos.	Annex-CONV-12(i)	C2
333	25256117	SET OF RUBBER COMPONENTS FOR REVERSER FOR CLW MAKE AC LOCO ONE SET CONSISTING OF 03 ITEMS 40 NOS A)Gasket for reverser to Drg No.ELW/BSL/1/F94.091 Ref.16 or CLW Drg No.3TWD.102.034 ALT-1 qty.20 Nos. B)Felt Ring 200x5 thick for reverser to Drg No.ELW/BSL/1/F94.091 Ref.6, Qty 10 Nos C)Piston cup for reverser to CLW Drg.No.4TWD.101.035 ALT.3 Qty.10 Nos.	Annex-CONV-9(xviii)	C1
334	25256166	GASKET SET COMPLETE FOR ELGI MAIN COMPRESSOR MODEL TRC-1000 MN TO DRG.NO. ELW/BSL/3/F.84.032 ALT.3(This item is reserved for CLW approved sources only.)	Annex-CONV-12(i)	C1
335	25256178	GASKET SET COMPLETE FOR ELGI AUX. COMPRESSOR (MCPA) DRG.NO.ELW/BSL/2/F 84.040. ALT-1 Sr.NO 1 TO 7 EACH SET CONSISTING OF 07 ITEMS 08 NOS COMPONENTS.	Annex-CONV-12(i)	C1
336	25256208	Modified rubber seal for LOCO Roof Joint to DRG No.ELW/BSL/4/F/80.029 alt-4.	Annex-CONV-12(i)	B2
337	25256233	GASKET FOR FITTING TM BELLOW TO DRG. NO. ELW/BSL/3/WAM-4/F88.148, ALT.1.	Annex-CONV-12(i)	C1
338	25256907	SET OF RUBBER COMPONENT KIT FOR R-6 RELAY VALVE , COMPRISING OF 06 ITEMS 06 NOS.AS PER SKETCH NO BSL/ELW/SK NO 9034 SR. DESCRIPTION DRG, NO. QTY/LOCO 1. O'RING ELW/BSL/3/B-25.001REF-4 01 NO. 2.'O'RING ELW/BSL/3/B-25.001 REF-5 01 NO. 3.RUBBER FACE ELW/BSL/3/B-25.001 REF 8 01 NO. 4.SEALING RING BSL/ELW/4/B25.002 01 NO. 5.EXHAUST CHECK VALVE BSL/ELW/4/B-25.003 01 NO. 6.'O'RING BSL/ELW/4/B-25.004 01 NO.	Annex-CONV-9(xvi)	C1
339	25256919	RUBBER PROFILE WITH KEY, 2000MM. FOR FITMENT OF SAFETY GLASS ON SIDE WALL, SUITABLE FOR WAP-1 AND WAP-4 TYPE LOCO TO DRG. NO. ELW/BSL/4/WAP-1/R344.004, ALT.-2.	Annex-CONV-12(i)	C1
340	25256956	RUBBER PACKING FOR CABLING TO DRG. NO. ELW/BSL/4/F 95.006 ALT.2.	Annex-CONV-12(i)	C1
341	25256993	RUBBER GASKET FOR QVRH, QVMT, QVSL AS PER DRG.NO. ELW/BSL/WAM4/4/124.198 ALT-2.	Annex-CONV-12(i)	C2
342	25257079	RUBBER KIT FOR C-2-N FEED VALVE. ONE SET CONSISTS OF 14 ITEMS IN 16 NOS. AS PER ANNEXURE. CONSISTS OF SIL & WABCO PART NO. AS ABOVE Set	Annex-CONV-12(i) & Annex-CONV-9(xvi)	C2
343	25257092	Set of rubber components for C3 W distribution valve as per SKETCH no.ELW/BSL/SK. NO. 9046. ALT-1. (2-SHEETS)(ONE SET CONSIST OF 41 ITEMS 48 NOS.)(THIS ITEM IS RESERVED FOR RDSO APPROVED SOURCES ONLY.)(CHANGE AS PER BSL LETTER DT. 02.06.07) Set	Annex-CONV-12(i)	C1
344	25257109	SET OF TEFLON GASKET FOR TRANSFORMER AS PER DRG.ELW/BSL/4/F91.042 ALT-1 SR. NO.1 to 4 one set consist of 04 items 18 Nos. Set	Annex-CONV-12(i)	C2
345	25257110	MAITANANCE RUBBER KIT FOR SDW-1 TYPE RELAY VALVE CONSISTING OF SEVEN ITEMS=10 NOS.SKETCH NO. BSL/ELW/SK NO. 9088 ALT 2.NOTE--:MATERIAL OFFERED BY YOU SHOULD BE EXACTLY AS PER RLY TENDER DESCRIPTION. Set	Annex-CONV-12(i)	C1
346	25257122	SET OF GASKET FOR SAND BOX COVER AND INSPECTION COVER AS PER DRG. NO. ELW/BSL/WAG5/013B, ALT-2 (BASED ON CLW DRG. NO. 05/04/60/75) and ELW/BSL/4/F69.002, ALT-2, REF.-1 ( ONE SET CONSISTS OF 02 ITEMS, TOTAL 02 NOS.)DESCRIPTION CHANGED AS PER BSL LETTER DT. 11/03/2010. Nos.	Annex-CONV-12(i)	C1
347	25257134	SET OF PRECISION TYPE HARD GRADE WOOLEN FELT. For TAOCHI G/Case as per Drg. No.BSL/TRS/SK/4/652 Alt-1 One set consist of 05 items 12 Nos	Annex-CONV-11(vi)	C1



348	25257160	SET OF MAINTENANCE KIT FOR AIR FLOW MEASURING VALVE, COMPRISING OF 7 ITEMS =10 NOS. AS PER SKETCH NO. ELW/BSL/SK.NO. 9163, ALT-2. EACH UNIT SHOULD BE EMBOSS/ENGRAVED WITH MAKERS NAME,MONTH,YEAR AND BATCH NO. OF MANUFACTURING AT A CONSPICUOUS PLACE.Description changed as per letter No. BSL/ACL/L-IV/19 Dt. 02/3/10. Set	Annex-CONV-9(i)	C1
349	25257183	Set of rubber components for WAG-5 loco WABCO pneumatic valve OF AIR BRAKE TYPE LOCO COMPRISING OF 51 ITEMS 168 NOS AS PER SKETCH NO. BSL/ELW/SK.NO. 9045.ALT-1. (This item is reserved for RDSO approved sources only.)	Annex-CONV-9(xvi)	C1
350	25257237	GASKET FOR MOTOR BLOWER FOR RADIATOR (MVRH) FLAKT INDIA MAKE TO DRG.NO. ELW/BSL/WAM-4/124.055 ALT-2. Nos.	Annex-CONV-12(i)	C1
351	25257250	Seal felt for oil pan cover arrangement for wag5/wam4 LOCO BOGIE AS PER elw dRG nO.elw-bsl-wam4/4/72.033 new bar:372.75/-EACH (UNIT- No)	Annex-CONV-11(vi)	D
352	25257262	"Set of Rubber items for brake cylinder for co-co bogie comprising of 06 items 48 NOS.as drg.nos. 1) BSL/TRS/SK/4/721 (01 ITEM 08 NOS) 2) BSL/TRS/SK/3/723 (01 ITEM 08 NOS) 3) BSL/TRS/SK/3/724 (04 ITEM 32 NOS)	Annex-CONV-11(viii)	C1
353	25257857	SEALING RING for Axle Box of WAM-4, WAG-7,WAP-1,WAP-4 LOCOMOTIVE TO DRG. NO. ELW/BSL/4/F61.047 ALT-1.	Annex-CONV-12(i)	C1
354	25258205	ASBESTOS PACKING FOR BREAKER RESISTORS ASSEMBLY SIZE 60x 3mm. WHITE DRY ASBESTOS IS : 4687 GRADE-I.	Annex-CONV-12(i)	C1
355	25258229	FELT PACKING FOR TRACTION MOTOR BLOWER DUCT TO DRG. NO. ELW/BSL/WAP-1/4/R312.001 ALT-2.	Annex-CONV-12(i)	C1
356	25258291	SET OF GASKET (RUBBER COMPONENTS) FOR 1 1/4" ANGLE COCK COMPRISING OF 3 ITEMS AND 05 NOS TO RDSO DRG. NO: WD/88/23/S-02 AS UNDER:SR. DESCRIPTION DRG. NO: QTY.1. SEAT WD/88/23/S-02 02 ITEM NO:7 Set	Annex-CONV-12(i) & Annex-CONV-9(xvi)	C1
357	25258308	Rubber Bush Assly Centre Pivot Arrangement for WAG-7 locos as per CLW Drq. No. 06/2/15/49 REF 1 AND 2 ONLY.	Annex-CONV-11(iv)	C1
358	25258527	GASKET FOR UNION FEMALE SIZE 1/2" (3.15 mm. THICK) TO DRG.NO. ELW/BSL/4/F-73.027 ALT-4, REF-3. DESRIPTION CHANGED AS PER BSL LETTER NO. DTD 07/10/2008.	Annex-CONV-12(i)	C1
359	25258564	GASKET FOR UNION FEMALE SIZE 3/8" (3.15 mm THICK) TO DRG. NO. ELW/BSL/4/F-73.027 ALT-4, REF-2. DESRIPTION CHANGED AS PER BSL LETTER NO. DTD 07/10/2008.	Annex-CONV-12(i)	C2
360	25258576	GASKET FOR UNION FEMALE SIZE 3/4" (3.15 mm. THICK) TO DRG. NO. ELW/BSL/4/F-73.027 ALT-4 REF-4.	Annex-CONV-12(i)	C1
361	25258631	GASKET FOR UNION FEMALE SIZE 1 1/4" (3.15 mm.THICK) TO DRG. NO. ELW/BSL/4/F73.027 ALT-4 REF-6. NOTE:- (a) Material should not be supplied >3months older from it, manufacturing. (b) Material will be required in 4 installment to be supplied quaterly.	Annex-CONV-12(i)	C2
362	25258930	"MAINTENANCE SET OF RUBBER COMPONENTS FOR N-1 REDUCING VALVE COMPRISING 5 ITEMS = 7 NOS AS PER GIVEN BELOW:1. 'O' RING 3/4" OD TO WABCO PT NO. 531868 = 02 NOS.2. 'O' RING TO WABCO PT NO. 564056 = 01 NO.3. DIAPHRAGM TO WABCO PT NO. 526346 = 01 NO. 4. GAS Set	Annex-CONV-12(i) & Annex-CONV-9(xvi)	C1
363	25259787	SET OF RUBBER ITEMS FOR TRACTION MOTOR TAO-659A1 COMPRISING OF 03 ITEMS 18 NOS AS PER SKETCH NO.BSL/ELW/SK.NO.6000 ALT-3. Set	Annex-CONV-12(i)	C1
364	25259805	SET OF GASKET FOR SIDE COVER OF OIL COOLER RH and LH, CONSISTING OF 02 ITEMS 02 COMPONENTS IN A SET AS PER DRG. NO. ELW/BSL/2/F91.016 REF.1 and 2 FOR LOCO TRANSFORMER.[THIS ITEM IS RESERVED FOR CLW APPROVED SOURCES ONLY.] Set	Annex-CONV-12(i)	C1
365	25259817	RUBBER KIT FOR FT-1 FEED VALVE. ONE SET CONSISTS OF 18 ITEMS IN 22 NOS. AS PER ANNEXURE FTIL PART NO. AS ABOVE Set	Annex-CONV-12(i) & Annex-CONV-9(xvi)	C1
366	25259830	GASKET FOR FRONT END COVER OF AXLE BOX AS PER DRG.NO.ELW/BSL/4/F61.043.(THIS ITEM IS RESERVED FOR CLW APPROVED SOURCES ONLY.) Nos.	Annex-CONV-12(i)	C1
367	25259842	SET OF GASKETS FOR EQUIPMENTS ON LOCO (ONE SET COMPRISING OF 11 ITEMS = 22 NOS.) AS PER SKETCH NO: BSL/ELW/SK.NO: 9087 ALT-3.	Annex-CONV-12(i)	C1
368	25259854	SET OF RUBBER KIT FOR ESCORTS MAKE F2 FEED VALVE TO ELW SKETCH NO. BSL/ELW/SK.NO:9093.ALT.3 ONE SET COMPRISING OF 20 ITEMS 23 NOS. Set	Annex-CONV-9(xvi)	C1
369	25261010	GREASE NIPPLE TYPE 21-A SIZE 1/4" BSP F MEDIUM EXT. TO BS 1486 PT II OF 1961.	Annex-CONV-12(ii)	C1

370	25270254	SET OF SEAL FELT FOR CENTRE PLATE OIL SEAL ASSLY. ( 1 SET - 02 ITEMS - 04 NOS.) TO DRG. NO. ELW/BSL/WAM-4/4/67.002 ALT.1.REF-1 and 2 EACH REF. QTY. 02 NOS.) (This item is reserved for CLW approved sources/having performance from C.RLY/other RLYS.)	Annex-CONV-12(i)	C1
371	25271003	MOTOR OIL SEAL FOR AUXILIARY COMPRESSOR AS PER ELGI'S DRG. NO. 1LBN 000200".	Annex-CONV-12(i)	C1
372	25278022	SET OF OIL CUPS FOR CO-CO-BOGIE AS PER BSL/ELW/SK NO. 7007.ALT-1. comprising of 2 items -06 nos. Set	Annex-CONV-11(vi)	C2
373	25300090	BOLT HEX HEAD M12X35 LONG IS 1364.	Annex-CONV-1(iv)	C2
374	25300258	HEXAGON HEAD BOLT M 10 x 115-4.8, IS 1363 (PT. 1) SH TO IS: 9549.	Annex-CONV-11(v)	C1
375	25300283	HEXAGON HEAD BOLT IS:1364 (PART.1)ISO 4014 M24X90- 8.8 SH LE 18.5 RT WITH CASTLE NUT M24 IS:2232 A.8. FROM RDSO/CLW/CEE APPROVED SOURCES ONLY MANUFACTURERS NAME AND PROPERTY CLASS MUST BE EMBOSSED INDENTED ON HARDWARES. NOTE: 1. INSPECTION WILL BE OEM'S PREMISES ONLY BY RITES/RDSO (2) TENDER SPECIFIC AUTHORITY LETTER TO BE GIVEN FROM OEM WITHOUT WHICH OFFER SHALL BE SUMMARILY REJECTED.(This item is reserved for clw approved sources only.)	Annex-CONV-10(vi)	C1
376	25300295	SET OF HEXAGON HEAD BOLT IS-1364 (PART-1)ISO 4014 SIZE M20 x 65MM P-8.8 SH-LE-6.5 RT WITH CASTLE NUT M20 IS:2232 A-8 WASHER SPRING M20 =01 NO.WASHER PLAIN M20 (02 NOS).TOTAL 05 NOS MANUFACTURERS NAME & PROPERTY CLASS MUST BE EMBOSSED INDENTED ON HARDWARES.(THIS ITEM IS RESERVED FOR CLW APPROVED SOURCES ONLY.)"(Please pay 10% security deposit for details please see annex attached.)	Annex-3Ø-A-7(i)	C1
377	25300325	SET OF HEXAGON HEAD BOLT IS;1364(PART 1)/ISO.4014. SIZE M27X132MM P- 8.8- SH LE 29.2 RT WITH CASTLE NUT M27 IS 2232 A8.MANUFACTURERS NAME & PROPERTY CLASS MUST BE EMBOSSED INDENTED ON HARDWARES.	Annex-CONV-10(iv)	C1
378	25301007	BRAKE HEAD BOLT FOR BRAKE RIGGING OF CONVENTIONAL LOCO TO ELW/BSL DRG. No. ELW/BSL/4/F67.029.	Annex-CONV-11(v)	C1
379	25301202	MODIFIED EQUALIZER TIE PIN DRG. NO. ELW/BSL/4/F63.001 ALT-3. REF:1,2,3 & 4. [04 ITEMS 04 NOS]	Annex-CONV-11(iv)	C1
380	25301512	HEX HEAD BOLT IS:1364/2002 (Pt-1)/ISO 4014 M12 x 55mm. P.C. 8.8 ZINC PLATED. FORM RDSO/CLW/CEE APPROVED SOURCES ONLY MANUFACTURER'S NAME AND PROPERTY CLASS MUST BE EMBOSSED/ INDENTED ON HARDWARES. DESCRIPTION CHANGED AS PER BSL LETTER DT.24/8/09	Annex-3Ø-D2(xiv)	C1
381	25301524	SPECIAL SQ.HD. BOLT M.16x 90mm. P.C-8.8 ZINC PLATED AS PER CLW DRG. NO. 4TWD.092.140 ALT-3 FOR B. HOLDER OF TM TAO 659. FROM RDSO/ CLW APPROVED SOURCES ONLY.	Annex-3Ø-D2(xiv)	C2
382	25304136	HEXAGON HEAD BOLT IS 1364 (PART I) ISO 4014 SIZE M30 X 85 MM P-8.8 SH TO IS: 9549 FROM RDSO /CLW/CEE APPROVED SOURCES ONLY. MANUFACTURED NAME AND PROPERTY CLASS MUST BE EMBOSSED/INDENTED ON HARDWARES. (AS PER CWM BSL L.DTD 8/3/2008)	Annex-CONV-11(vi)	C2
383	25304185	'U' BOLT M16 FOR SAND PIPE ASSLY. TO CLW DRG. NO. 05/4/21/10 ALT-1	Annex-CONV-11(ix)	C2
384	25305300	HEXAGON HEAD BOLT M12 x 85MM. LONG FOR ROLLER BEARING AXLE BOX TO IS:1364 (PART-1) P-8.8 ISO-4014 FROM RDSO/ELW/APPROVED SOURCES ONLY MANUFACTURERS NAME AND PROPERTY CLASS MUST BE EMBOSSED /INDENTED ONLY HARDWARES.	Annex-CONV-11(vi)	C1
385	25314506	HEX SLOTTED NUT SIZE M 30 x 3.5 PITCH AS PER IS:2232/1967 (SIXTH REPRINT 1990) PROPERTY CLASS P-6.	Annex-CONV-11(vi)	C2
386	25320403	Pin for T.M. nose suspension assly.for T.M. TAO 659 drg.no.01/4/25/5 alt.6	Annex-CONV-11(iv)	C1
387	25328013	Pin arrangement as per RDSO Drg. No. SKVL-703 ALT-2 Set consist of 03 items 56 Nos.[1] Equalizer Pin Ref.1 = 12 Nos.2] Pin Ref.2 = 16 Nos.3] Flat bended cotter Ref.10 = 28 Nos.	Annex-CONV-11(iv)	B1
388	25328074	SET OF SPLIT PINS TO IS: 549/1961 FOR CO-CO BOGIE AS PER BSL/ELW/SK.NO.7005.comprising of 11 items 516 nos Set	Annex-CONV-11(v)	C1
389	25328554	Set of brake gear pins and trunions for co-co bogie for WAM4/WAG5/WCG-2 type locos as per ELW/BSL/SK.NO.7004.ALT-8 comprising of 15 items 160 nos.	Annex-CONV-11(iv)	C1
390	25328633	SPLIT COTTER PIN M10 x 150 mm LONG AS PER IS:549 STEEL (FOR BOGIE & BODY PIN). Nos.	Annex-3Ø B2-4(iii)& Annex-CONV-11(iv)	C1

391	25328645	SET OF COTTER PINS OF WAG-7 LOCO BOGIE COMPRISING OF 07 ITEMS 216 NOS. AS PER SKETCH NO.BSL/ELW/SK.NO.9114 ALT-6 .	Annex-CONV-11(iv)	C1
392	25328657	SET OF FLAT COTTER SPLIT PIN TO IS-2638 B/1974 FOR CO-CO BOGIE. SET COMPRISING OF 03 ITEMS 64 NOS. AS PER SK.NO.ELW/BSL/ SK.NO.7006. Alt.1	Annex-CONV-11(iv)	C1
393	25328785	SET OF BRAKE GEAR PINS OF WAP-1 AND WAP - 4 LOCOS BOGIE AS PER ELW/BSL/SK.NO.7026 ALT-6 COMPRISING OF 14 ITEMS 220 NOS	Annex-CONV-11(iv)	C1
394	25330305	HEX SCREW 5X0.8X22 (STEEL) NICKLE PLATE IS:2389.	Annex-CONV-12(vi)	C2
395	25331024	SPECIAL SCREW FOR B.H. SUPPORT (HIGH TENSILE STEEL) CAD. PLATED AS PER CLW DRG.NO. 4TWD.092.141 FOR TM TAO-659 FROM. RDSO/CLW/CEE APPROVED SOURCES ONLY MANUFACTURERS NAME AND PROPERTY CLASS MUST BE EMBOSSED/INDENTED ON HARDWARES.	Annex-3Ø-D2(xiv)	C1
396	25331050	HEX HEAD SCREW IS:1364/2002 (Pt-2) ISO 4017 M12x35mm P.C.-8.8 ZINC PLATED. FROM RDSO/CLW/CEE APPROVED SOURCES ONLY. MANUFACTURERS NAME AND PROPERTY CLASS MUST BE EMBOSSED/INDENTED ON HARDWARES. Description changed as per letter No. BSL/ACL/I -IV/19 Dt. 02/3/10.	Annex-CONV-1(iv)	C1
397	25331061	HEX HEAD SCREW M10X45 (HIGH TENSILE STEEL) FOR TRACTION MOTOR TAO-659 A1 TO CLW DRG NO. 4 TWD.092.221 ALT.2 (REF NO.2ONLY) WITH CADMIUM ZINC PLATING FROM RDSO/CLW APPROVED SOURCES ONLY.	Annex-3Ø-D2(xiv)	C1
398	25331073	HEX HEAD SCREW-IS:1364/2002 (Pt-2)/ISO 4017- M12 x 20mm P.C.-8.8- ZINC PLATED. From RDSO/CLW/CEE APPROVED SOURCES ONLY. MANUFACTURER'S CLASS MUST BE EMBOSSED/INDENTED ON HARDWARES.	Annex-CONV-12(vi)	D
399	25331152	SQUARE HEAD BOLT ZINC PLATED FOR TM TYPE TAO-659 AS PER DRG. NO. ELW/BSL/4/F 88.166, ALT.-1.	Annex-3Ø-D2(xiv)	C2
400	25331190	HEX HEAD SCREW IS:1364/2002 (Pt-2) ISO 4017 SIZE M8x 40mm. P.C.-8.8 ZINC PLATED. FROM RDSO/CLW/CEE APPROVED SOURCES ONLY. MANUFACTURERS NAME AND PROPERTY CLASS MUST BE EMBOSSED/INDENTED ON HARDWARES.	Annex-CONV-11(vi)	C2
401	25338602	HEX. HEAD SCREW M10 x 40 IS 1364.B8.8. Nos.	Annex-CONV-11(vi) & Annex-CONV-7(ii)	C1
402	25340050	STUD M16X2 PITCH FOR BOGIE FRAME ASSLY. CLW DRG. NO. 01/4/12/38 ALT.5.	Annex-CONV-11(v)	C2
403	25348012	Brush Rocker Locking Stud Assly.For T.M. TAO-659 A1 As Per CLW DRG. NO.3TWD.092.144, Alt.2,SHEET No.1 of 6 & Drg. No. ELW/BSL/WAM-4/110.084(based on CLW drg.no. 4TWD.092.143) ALT.1 REF-3, Assly.Comprising OF 06 ITEMS 07 Nos.1)Shim 0.25 mm. size Qty.= 02 Nos.CLW Drg. No.4TWD.092.143 Ref.no.3 (2)Locking Pin Qty.= 01 No. CLW Drg. No. 4TWD.092.144 SH. no. 2.(3) CAP Qty. = 01 No. CLW Drg. No. 4TWD.092.144 SH.no.3.(4) KNURLED KNOB Qty. = 01 No. CLW Drg. No. 4TWD.092.144 SH. no.4. (5)SPRING Qty.= 01 No.CLW Drg. No.4TWD.092.144 SH. no. 5.(6) PIN Qtyt.=01 No.CLW Drg. No. 4TWD.092.144 SH. no. 6.	Annex-3Ø-D2(xiv)	C1
404	25353457	DISC SPRING (BEVEL WASHER) A-45 AS PER CLW SPECN. NO. 4TWD.133.040 ALT.2 (total 3 sheets) Ref.14.	Annex-CONV-12(vi)	C1
405	25353550	INSULATING WASHER FOR INDUCTIVE SHUNT TO CLW DRG.NO. 4TWD.133.031,036 SR.NO.1	Annex-CONV-12(vi)	C1
406	25355650	MACHINE WASHER M20 IS:2016 [STEEL] cadmium plated.	Annex-CONV-12(vi)	C1
407	25371058	SIGNALLING HORN TO CLW SPECN. NO. CLW/ES/H-5, ALT-A.	Annex-CONV-8(xxii)	C1
408	25378211	PTFE BUSH FOR TRACTION MOTOR TYPE TAO-659 AS PER RDSO DRG. NO. SKEL-4348. Nos.	Annex-CONV-12(i)	B2
409	25378223	SET OF BUSHES FOR WAG-7 LOCO COMPRISING OF 22 ITEMS=520 NOS AS PER SKETCH NO.BSL/ELW/SK.NO.9169 ALT 5.	Annex-CONV-11(iv)	B1
410	25378648	Set of Mn. bushes for WAM4/WAG5 locomotive comprising of 24 items 552 nos. as per Sketch No.BSL /ELW/SK.NO.7019 ALT-9	Annex-CONV-11(iv)	B2
411	25378685	GEAR CASE MOUNTING LUG BUSH FOR TRACTION MOTOR TYPE HS 15250A.A-COLLER THICKNESS=9.00+0.20MM-0.00MM,B-LENGTH=42.00+0.5MM-0.00MM. ELW/BSL/WAG-5/4/150.054 Nos.	Annex-CONV-1(i)	C1
412	25378806	SET OF BUSHES FOR WAP-1 LOCO BOGIE COMPRISING 10 ITEMS 296 NOS. AS PER SKETCH NO. BSL/ELW/SK.NO.7024 ALT-5 .	Annex-CONV-11(iv)	C1
413	25380102	EQUALISER PIN KEEPER FOR AIR BRAKE GEAR ASSLY TO CLW DRG.NO1/4/19/44 ALT-7 C&D NO F232/108.	Annex-CONV-11(iv)	C1

414	25420203	23 Teeth pinion for Traction Motor type HS-15250A for WAP-4 LOCO as per RDSO DRG. No. SKDL-4356, Alt.B to RDSO SPECN. No. MP.O.2800.09 [REV.02] JUNE 05.	Annex-CONV-1(v)	B2
415	25420215	MODIFIED SPRING LOADED OIL COVER FOR GEAR CASE AS PER DRG.NO. ELW/BSL/3/F65.045,ALT-1.AS PER CONSIGNEE'S REQUIREMENTS.	Annex-3Ø-B2-6-(iv)	C1
416	25420355	15 Teeth Motor Pinion for traction motor TAO 659 A1 as per RDSO drg. no. DDO-296 ALT-E.	Annex-CONV-1(v)	C1
417	25428068	18 TEETH PINION FOR WAG-5HA/HB LOCOS TO RDSO DRG.NO.SKDP-3460,ALT-1 TO RDSO SPECIFICATION NO.MP.O.2800.09(REV.02)JUNE 2005	Annex-CONV-1(v)	B2
418	25440652	IMPELLER FOR MVRH TYPE MLBR 60-1HZ RPM 1470, As per CLW Specn. No.CLW/ES/B-14(To be procured for CLW Approved source only	Annex-CONV-2(viii)	B2
419	25440858	3 PHASE INDUCTION MOTOR SUITABLE FOR SMOOTHING REACTOR COOLING BLOWER (MVSL) CONFORMING TO RDSO SPEC. NO. E/10/03/08 (REVISED) SEPT.1995 WITH AMENDMENT NO. 1 & 2. AND CLW SPECN. NO.CLW/ES/B-14/C.	Annex-CONV-2(vii)	B1
420	25448262	Set of Locking Plate & Lock Nut for MVMT and MVRH as per Drg. No. ELW/BSL/3/F 94.075.(ONE SET COMPRISING = 02 ITEMS = 06NOS. (Ref.1 Qty-3 Nos. and Ref.2 Qty 03 Nos.) Set	Annex-CONV-12(i)	C1
421	25470050	AC CAB FAN SINGLE PHASE 110 VOLTS +/- 22.5%, 50 Hz. FAN BODY AND BASE PAINTED IN BLACK ENAMELLED PAINT & GUARD, BLADE IN COPPER OXIDIZED TO CLW SPECN. NO. CLW/ES/F-4, ALT-G.	Annex-CONV-8(vii) 2ND POH	B1
422	25480534	MODIFIED FILTER PANEL ASSLY. FOR MIO FILTER MEDIA FOR WAG 5 & 7 WAP 1 & 4 LOCOS TO CLW DRG.NO.03/2/45/31 ALT-6(This item is reserved for CLW approved sources only.)	Annex-CONV-9(iii) 2ND POH	B1
423	25488107	Compressed air filter (model FF-80/15-1 of M/S fine filter,material carbon steel sand blasted and power coated with 47/20x135 mm porous ceramicfilter or modified maxi-filter of M/s siemag with die-east aluminium bowl and 31.5/26.5x39.4/34.4x67 mm sintered bronze filter) with 1/4" brass needle valve for manual draining and 02 sets of 1/2" BSP nipple with union for Inlet/outlet,minimum air flow capacity 60 NM3/Hr,operating pressure upto 10 Kg./cm2.Test pressure 22 /cm2,operating temperature upto 70C,05 Micron size,pressure Drop maximum 2 PSI in clean condition,maximum weight 7 Kg." Nos.	Annex-CONV-9(xvi)	B2
424	25488200	OVERHAULING KIT FOR M/s KNORR BREMSE MAKE AIR DRYER. AFTER 18/24 MONTHS OF SERVICE. ONE SET CONSISTS OF 12 ITEMS AND 24 NOS.AS PER ANNEXURE ATTACHED.	Annex-CONV-10(x)	C1
425	25500053	TRACTION MOTOR VOLTMETER TYPE MOVING COIL with internal led illuminated dial,range scale range 0-1.8 kv to clw specn. no:CLW/ES/1.2 ALT-O.	Annex-CONV-9(xiii)	B2
426	25500600	AMMETER FOR BATTERY CHARGER FLUSH MOUNTED 30-0-30 AMP. DC CENTRE ZERO TYPE, SQUARE MODEL SIZE 90 x 90 x 50 mm. INDUSTRIAL GRADE MOVING COIL TYPE AS PER IS:1248/68.(DIAL MARKING TO READ MIN. 0.5AMPS.)	Annex-CONV-9(xiii)	C1
427	25510058	Main Compressor 1000 LPM Capacity for Conventional type Electric Locomotive As per CLW Spec. No.CLW/ES/C – 34 ALT –O With Driving Motor MCP (Make ABB, CROMPTON, BBL,SIE) Conforming to RDSO Spec. No.SPEC/E/10/3/08(Rev) Sept 95 and winding schedule to RDSO Mod. Sheet No. ELRS/MS/0294/2000 Rev – 0.	2ND POH Annex-CONV-2(ix)	B1
428	25513000	ELGI AUXILIARY COMPRESSOR MODEL CRC 150 COUPLED WITH 1 HP. DC MOTOR OF 110V DC, 1500 RPM, 8.5 AMPS OPEN TYPE SCREEN PROTECTED ELGI MAKE OR SIMILAR. Note:- Item reserved for CLW appd. firm's.	2ND POH Annex-CONV-2(ii)	B2
429	25567240	POH MAINTENANCE SCHEDULE KIT OF TAP CHANGER TYPE NO - 32(SUB KIT POH-1) OF 164 COMMON ITEMS OF AAL AND BT MAKE TAP CHANGERS TO BE PROCURED FROM M/S. REPL OR M/S.ANANTASHREE ENGINEERS ONLY. AS PER ANNEXURE S1 & ANNEXURE POH-HW-1 OF RDSO TECHNICAL CIRCULAR NO.RDSO/2010/EL/TC/0102REV"1" DATED 16/09/2016. Amendment no 1 dated 26/04/2017	Annex-CONV-7(ii)	A
430	25568097	SET OF CIRCLIPS FOR TAP CHANGER NO.32 AS PER SKETCH NO. BSL/ELW/SKETCH NO. 2004 ALT.3. ONE SET COMPRISING OF 06 ITEMS 22 NOS.	Annex-CONV-7(ii)	C1

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451	25678036	SET OF CODE MARKERS FOR CABLE CONSISTING OF 06 PRINTED LETTERS OF A,B,C,D,E & G IN ONE BOOK AS PER CLW SPECN. NO. CLW/ES/C-5 ALT.'C'.	Annex-CONV-12(i)	C2
452	25688078	SET OF SPARES OF M.S. ITEMS FOR LOCO BATTERY BOXES, (ONE SET CONSISTING OF 5 ITEMS TOTAL 36 NOS.) AS PER SKETCH NO. ELW/BSL/SK.NO.9095 ALT.4.Description changed as per letter No. BSI/ACI/I-IV/19 Dt. 02/3/10. Set	Annex-3Ø-B1-2(i)	C1
453	25703729	MINIATURE MICRO SWITCH TYPE K.3.S.033 OF KAYCEE MAKE WITH SCREW TERMINALS WITHOUT ACTUATORS KAYCEE OR SIMILAR MAKE.	Annex-CONV-9(i)	C1
454	25708016	B.L. SWITCH BOX COMPLETE SUITABLE FOR 25KV, AC LOCO WITH SIEMENS MAKE PROGRAMME SWITCH AND LIMIT SWITCHES AS PER CLW SPECN. NO. CLW/ES/S-31/C.Note: (1) ONLY CLW APPROVED SOURCES.Description changed as per letter No. BSI/ACI/I-IV/19 Dt. 02/3/10. Nos.	Annex-CONV-8(i)&(vi)	B1
455	25718290	POH REPLACEMENT KIT FOR SINGLE BOTTLE VCB OF M/S SCHNEIDER ELECTRIC TYPE 22CB (PART NO.5510760) AS PER SKETCH NO.ELW/BSL/SK.NO.3011 (in 2sheets) One set consist of 34 items	Annex-CONV-6(i) &(ii)	B1
456	25721770	Teflon Sleeve C&D NO. 5464/262 DRG. NO. ELW/BSL/WAM-4/110.049 ALT-2..	Annex-CONV-12(i)	C1
457	25724204	NYLON CABLE TIE TYPE-1 for ELECTRIC LOCOMOTIVE AS PER CLW SPECN. NO. CLW/ES/C-38, ALT.E .NOTE: ONLY CLW APPROVED SOURCES WILL BE CONSIDERED. Hds	Annex-CONV-12(i)	C1
458	25724216	NYLON CABLE TIE TYPE-2 FOR ELECTRIC LOCOMOTIVE AS PER CLW SPECN. NO. CLW/ES/C-38, ALT-E .Note:- ITEM RESERVED FOR CLW APPD. SOURCES. Hds	Annex-CONV-12(i)	C1
459	25724228	NYLON CABLE TIE TYPE-3 FOR ELECTRIC LOCOMOTIVE AS PER CLW SPECN. NO: CLW/ES/C-54.	Annex-CONV-12(i)	C1
460	25728040	NYLON CABLE TIE TYPE-4 FOR ELECTRIC LOCO AS PER CLW SPECN. NO.CLW/ES/C-38 ALT.E Hds	Annex-CONV-12(i)	C1
461	25728052	DC DC CONVERTER COMPLETE FOR TWIN BEAM HEAD LIGHT OF ELECTRIC LOCOMOTIVES AS PER RDSO SPECIFICATION NO. FLRS/SPEC/DC-DC CONVERTER/0021 REV. 1 of 2004	Annex-CONV-8(xiii)	B2
462	25728167	"Set of insulating rings complete (Inner to AAL item no.G1218 drg.no.9880383467802 or as per m/s. BT part no.S1218 drg. no. AM200095R2 or S-1218/skel-4661) and (Outer to BT item no. S-1219 as per drg.no. AM 200095-R1 or as per AAL part no. G1219 and drg. Set	Annex-CONV-12(i)	B2
463	25728313	Set of Cable Bunching Ties for electric locomotive as per CLW Specn.No:CLW/ES/C-54.Sizes[1] 153 [L]x 3.6 mm. [W] x 1.25 mm. [T] plus/minus 2 percent, Tensile Strength 18 KGF and MAX. Cable Bunching Dia=35 mm. [2] 204 mm. [L]x 3.6 mm. [W] x 1.29mm. [T] plus/minus 2 percent, Tensile Strength=18 KGF and MAX. Cable Bunching Dia=53 mm. [Qty=100 Nos. each] One set consists of 02 items 200 Nos	Annex-CONV-12(i)	C1
464	25780153	SPARE HRC PORCELAIN FUSE LINK 35 AMPS 500V AC DELAYED ACTION DUTY, D-III TYPE WITH ALTERNATIVE SHAPE TO IS:8187 (TABLE 9) OF 1976 C&D NO. 5111/F-341/665.EACH UNIT SHOULD BE EMBOSS ENGRAVED WITH MAKERS NAME,YEAR,BATCH NO. and MANUFACTURING AT A CONSPICUOUS PLACE.	Annex-CONV-9(xii)	C1
465	25780256	FUSE HRC PORCELAIN COMPLETE ASSLY. WITH FUSE BASE FOR FRONT CONNECTION FUSE LINK 16 AMPS 500V AC (DELAYED ACTION DUTY TYPE D-II WITH ALTERNATIVE SHAPE) FUSE CARRIER GAUGE PIECE AND COLLER RING TO IS:8187 OF 1976 C&D NO. 5111/F-341/656 & 657.EACH UNIT SHOULD BE EMBOSS/ENGRAVED WITH MAKERS NEME, MONTH, YEAR & BATCH NO. OF MANUFACTURING AT A CONSPICUOUS PLACE	Annex-CONV-9(xii)	C1
466	25780529	FUSE HRC PORCELAIN COMPLETE ASSLY. WITH FUSE BASE FOR FRONT CONNECTION, FUSE LINK 35 AMPS/ 500V AC (QUICK ACTION DUTY TYPE D-III WITH ALTERNATIVE SHAPE) FUSE CARRIER GAUGE PIECE & COLLER RING TO IS:8187 OF 1976, C&D NO. 5111/F-341/654 and 902. EACH UNIT SHOULD BE EMBOSS/ENGRAVED WITH MAKERS NAME,YEAR AND BATCH NO. OF MANUFACTURING AT A CONSPICUOUS PLACE	Annex-CONV-9(xii)	C1
467	25782046	SEMICONDUCTOR FUSE LINK, 100AMPS, 660V. AC. (CCRPS)., P/1/0096, CLW/ES/F-8/E, CLW/ES/SK-3/F-8, IS: 13703-1993, R114/153. P114/472	Annex-CONV-9(xii)	C1
468	25810558	FLEXIBLE CONNECTION ON ROOF FOR DJ & HOM INSULATOR AS PER DRG.NO. ELW/BSL/2/F-97.032 ALT-2 REF-4.	Annex-CONV-12(ix)	C1

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490	25941975	MODIFIED BRUSH HOLDER ASSLY. WITHOUT CARBON BRUSHES FOR TM TAO 659 A TO RDSO DRG.NO.SKEL/4505 ALT-2	Annex-CONV-1(xi)(TO BE REPLACED ON COND BASIS IN 1ST POH)MCI IN 2ND POH	C1
491	25944344	Set of brush holder finger assembly for TM TAO -659A.set comprising of (1)Brush holder finger assembly as per SKEL-4504 ALT-3 or latest QTY-18 Nos.and (2)Washer as per SKEL-4506 ALT-3 or latest-QTY-36 Nos.	Annex-CONV-1(xi)	B2
492	25946456	WEARING PLATE FOR TM TAO-659 A1 TO DRG.NO. ELW/BSL/4/F-88.038 ALT-R.(Raw materials for the liners shall be procured from SAIL/TISCO/JINDAL only and proof of purchase shall be furnished by the firms at the time of inspection.)(Pleaes confirm this clause failing with their offer will be summerily relected.)	Annex-CONV-1(xii)	C1
493	25947280	SPRING HOLDER PLATE LINER TO DRG. NO. ELW/BSL/WAM-4/3/63.034 ALT.1 REF.3 RAW MATERIAL FOR LINERS SHALL BE PROCURED FROM SAIL/TISCO/JINDAL ONLY AND PROOF AT PURCHASE SHALL BE FURNISHED BY THE FIRMS AT THE TIME OF INSPECTION. FIRM MUST GIVE ACCEPTANCE OF THIS CLAUSE IN THEIR OFFER OTHERWISE OFFER WILL BE SUMMERILY REJECTED.[THIS ITEM IS RESERVED FOR CLW APPROVED SOURCES ONLY]	Annex-CONV-11(vi)	C1
494	25948027	SET OF LOCKING PLATES FOR GEAR CASE BOLT FOR TM TAO 659 TO DRG.NO. EKW/BSL/4/F.65,031 ALT-2 REF.1 & 2 SET CONSIST 02 ITEMS & 24 NOS (12 NOS.OF REF.1 & 12 OF REF.2)(DESCRIPTION CHANGED AS PER BSL LETTER DT. 20.8.08)	Annex-CONV-12(vi)	
495	25948301	BRUSH HOLDER SUPPORT ASSLY. FOR Traction Motor TAO-659 A1 TO CLW DRG. NO. 3TWD.092.210 ALT.-1, 3TWD.092.466A, 3TWD.092.465.	Annex-CONV-1(xiv)	C1
496	25948313	TERMINAL SUPPORT INSULATOR ASSEMBLY FOR T.M. TAO-659 & HS 15250A TO CLW DRG. NO. 3TWD.092.188 ALT. 5 (WITH PART DRGS.)	Annex-CONV-1(xiv)	C1
497	25948696	Brush holder spring for Hitachi TM type HS-15250 A to drg. no. ELW/BSL/3/WAG-5HB/150.034/Alt.1 to item no.1 to 5.	Annex-CONV-1(xi)	B2
498	25949100	SLEEVE FOR T.M. CABLE JOINT TO DRG. NO. ELW/BSL/WAM-4/4/110.203, R2, MATL. & SPECN. IRS-R-48/88,Gr. 'F', CLAUSE-5, HARDNESS-80 +/-5.	Annex-CONV-12(i)	C1
499	25949482	GEAR CASE ASSEMBLY FOR TM TAO-659 WITH TAPPER ROLLER BEARING [TAOCHI] AS PER DRG. NO. ELW/BSL/0/150-064, REF.1 TO 50, Alt.1 . Nos.	Annex-CONV-1(i) for goods loco 2nd poh	B2
500	25949548	SET OF END SHIELD DE/NDE SIDE FOR ABB MAKE MVSI/MVSL TO DRG. NO. ELW/BSL/WAM-4/2/124.285 AND DRG. NO. ELW/BSL/WAM-4/2/124/286 REF. 1 & 2 SUITABLE FOR 6306 BEARING DE & NDE SIDE.NOTE: ONLY CLW APPROVED SOURCES. Set	2ND POH Annex-CONV-2(xiv)	D
501	25949561	SET OF END SHIELD DRIVING END & NON DRIVING END FOR SAMAL HARAND MAKE 3 PHASE INDUCTION MOTOR USED AS MVSI,MVSL APPLICATION ON 25 KV ACMT LOCOMOTIVES MOTOR FRAME TYPE 112 M ENCLOSURE TE. KW/HP-2.2/3, RPM-2880, V-415 - SUITABLE FOR 6306 BEARING FOR DE & NDE SIDE.AS PER DRAWING NO ELW/BSL/WAM4/2/124.294.(only for clw approved sources) Set	2ND POH Annex-CONV-2(xiv)	C1
502	25949573	SET OF END SHIELD DRIVING END AND NON DRIVING END SIDE WITH GREASE PIPE AND NIPPLE FOR 3 PHASE 50 C/S INDUCTION MOTOR OF M/S. ABB FARIDABAD MAKE USED FOR MVRH APPLICATION ON 25 KV ACMT LOCOMOTIVE, MOTOR TYPE QP-200 M48, KW/HP-22/30, RPM-1460, AMPS-45.5, V-380+/- 22.5. Set	2ND POH Annex-CONV-2(xiv)	C1
503	25949585	SET OF ITEMS FOR SUSPENTION UNIT OF WHEEL SET FOR TAO-659 TM WITH TAPER ROLLER BEARING ARRANGEMENT AS PER SKETCH . NO: ELW/BSL/SK NO:8018. ALT-1 ONE SET CONSIST OF 08 ITEMS = 08 NOS	Annex-CONV-11(xi)	B2
504	25949597	SET OF END SHIELD DRIVING END AND NON DRIVING END SIDE WITH GREASE PIPE & NIPPLE FOR THREE PHASE 50 C/S INDUCTION MOTER OF M/s. SIEMENS MAKE USED FOR MVRH APPLICATION ON 25 KV ACMT LOCOMOTIVE, MOTOR TYPE IRA-2-164/4, KW/HP-22/30, RPM-1470, AMPS-41, V 380+/- 22.5% SUTABLE FOR BEARING 6313 FOR DE AND NDE END. Set	2ND POH Annex-CONV-2(xiv)	D



505	25949603	SET OF END SHIELD DE & NDE SIDE FOR ABB MAKE MVMT AS PER DRG. NO: ELW/BSL/2/WAM-4/124.261 ITEM NO: 1 & 2 & DRG. NO: ELW/BSL/2/WAM-4/124.266 ITEM NO: 1 WITH SUITABLE GREASE PIPE & NIPPLE ASSLY.NOTE: ONLY FOR CLW APPROVED SOURCES. Set	2ND POH Annex-CONV-2(xiv)	C1
506	25949627	"Set of End Shield Driving End side and NDE side for Siemens make MVMT to Drg. No. ELW/BSL/2/WAM-4/124.259 item No. 01 to 04 & Drg. No. ELW/BSL/2/WAM-4/124.257 (ITEM NO. 01 & 02) WITH suitable Grease Pipe and Nipple Assly.NOTE- Item reserved for CLW sour Set	2ND POH Annex-CONV-2(xiv)	C1
507	25949639	SET OF END SHIELDS DE & NDE SIDE FOR CGL MAKE MVMT TO DRG. NO: ELW/BSL/2/WAM-4/124.334 ITEM NO: 1 TO 4 & DRG. NO: ELW/BSL/2WAM-4/124.335 ITEM NO. 1 TO 4 WITH SUITABLE GREASE PIPE AND NIPPLE ASSLY.	2ND POH Annex-CONV-2(xiv)	C1
508	25949676	TRACTION MOTOR TAO-659 LOCKING SCREW ASSLY (B H REVOLVING RING) AS PER DRG.NO. ELW/BSL/2/F-088.061 ALT-2 REF-1 TO 4. ONE SET COMPRISING 04 ITEMS 05 NOS. Set	<b>Annex-3Ø-D2(xiv)</b>	D
509	25949690	SET OF MACHINED ITEMS FOR T.M. TAO-659 A1 COMPRISING OF 08 ITEMS 18 NOS. AS PER SK.NO. BSL/ELW/SK.NO. 6002 ALT-2. Set	Annex-CONV-1(ix)	C1
510	25949706	SET OF LOCK PLATES FOR TM TAO-659A, COMPRISING OF 05 ITEMS 132 NOS. AS PER SKETCH NO. BSL/ELW/SK.NO.6003 ALT.2. Set	Annex-CONV-12(i)	C1
511	25949718	SET OF GREASE NIPPLE FOR TRACTION MOTOR TAO-659 COMPRISING OF 02 ITEMS 12 NOS AS PER SKETCH NO.BSL/ELW/SK.NO.6001. Set	Annex-CONV-12(ii)	C1
512	25949755	SET OF SPARKING TIPS ASSLY FOR TM TAO 659 ONE SET CONSISTS OF 07 ITEMS 30 NOS AS PER SKETCH NO.ELW/BSL/SK.NO.9077 ALT.1. Set	Annex-CONV-1(xi)	C1
513	25949986	SET OF MACHINED ITEMS FOR TM TYPE HS-15250A, AS PER SKETCH NO. BSL/ELW/SK.NO. 6020 ALT-5 ONE SET CONSIST OF 08 ITEMS. 08 NOS.	Annex-CONV-1(ix)	A
514	25966157	SNAP ON CABLE LUGS 2.5 Sq.mm. FOR SOLDERLESS CRIMPING TO COPPER CONDUCTOR INSULATED WITH METTALIC REINFORCEMENT TO DOWELL'S CAT NO.8475.	Annex-CONV-12(i)	C2
515	25967629	FINGER CONTACT (SHUNTING CONTACTOR) FOR EP CONTACTOR TYPE TCP.718.M-164 TO CLW DRG. NO. 3TWD.111.051 ALT.-8.	Annex-CONV-9(xiv)	C1
516	25976424	HEX HD BOLT M24 x 90/60mm. TO IS:1364 MATERIAL TO IS:1875 CLASS IV.	Annex-CONV-11(vi)	C1
517	27160180	Set of general maintenance kit for C2w relay valve comprising of 14 items 30 Nos as per annexure "A"	Annex-CONV-12(i) & Annex-CONV-9(xvi)	C1
518	27160233	SET OF GENERAL MAINTANANCE COMPONENTS FOR AIR FLOW MEARSURING VALVE AS PER DRG. NO. ELS/KYN/4/006. NOTE:- ITEM IS RESERVED FOR RDSO APPROVED SOURCES ONLY.	Annex-CONV-12(i) & Annex-CONV-9(xvi)	C1
519	27250120	SET OF RUBBER COMPONENTS AND SPRING COMPRISING OF 8 ITEMS (8 NOS) FOR ROTEX TYPE 2/2 WAY N/C AND ROTEX MODEL.NO.3278-25/5.5-6G + 110VDC 28 WITH ORIFICE OF 25MM AS PER GIVEN BELOW:	Annex-CONV-9(ii)	C1
520	27630109	"Needle roller bearing assembly for TM HS-15250 A as per Hitachi DRG. NO. IOS-813-678 REV.1.."	Annex-CONV-1(Xii)	C1
521	27960122	Set of Maintainance Components for Low Tone and High Tone Horns [Elgi Make] comprising of 6 items = 6 nos. as per given below: 1] Rubber Packing 'A' to Elgi Code No. 000516340 = 01 No. 2] Rubber Packing 'B' to Elgi Code No. 000516350 = 01 No. 3] Diaphragm Seat to Elgi Code No. 000516310 = 01 No. 4] Spring to Elgi Code No. 000516360 = 01 No. 5] Diaphragm [Phosper bronze sheet] to Elgi Code No. 000516370 = 01 No. 6] Rubber Packing to Elgi Code No. 000516380 = 01 No.	Annex-3Ø-F-3(i),(ii)	C1
522	27960377	MODIFIED SAFETY CLAMP FOR TRANSITION SCREW COUPLING TO DRG.NO. TACMA/41.R3	Annex-CONV-10(vi) & Annex-3Ø-A-5(i)	C1
523	29018067	Set of Taper Roller Bearing assembly for TM Suspension unit of Hitachi WHEEL set type HS-15250A, Comprising of 02 items-02 Nos. as per M/S. Timken or M/S. SKF Bearing NO. PE-M249747/M249710, CE-M349547/M349510 or M/S. Fag Bearing No. GWE-547733, RWE-547734. (Each Unit should be Emboss/Engraved with makers name, month, year and batch no. of Manufacturing at a conspicuous place.)Note:-Firms to submit import documents along with the supply,supply to be made in the original packing of the Manufacturer. (This item is reserved for RDSO approved sources only.)	Annex-CONV-11(xi)	A

524	29130013	SIDE BUFFER 15 KJ CAPACITY for 3-phase Loco as per RDSO DRG. No. SKDL-4725.	Annex-CONV-10(v) & Annex-3Ø-A-6(i) (2ND POH FOR P7 P5 & CONVENTIONAL LOCO) MCI IN WAG9	B1
525	29140493	FRONT & BACK FERRULE 6MM OD(BRASS)FOR WAG9/WAP7 LOCO AS PER CLW SPECN.NO.CLW/TS/99/CF/5.	<b>Annex-CONV 12(iv)</b>	C1
526	29160583	SET OF REPAIR KIT FOR AIR DRYER FOR WAG-9 LOCOS CONTINING 46 ITEMS & 90 NOS. FTIL PT.NO. 790029165 (1 SET-3 ITEMS-4 NOS), (2) FTIL PT.NO. 790029111 (1 SET-3 ITEMS- 03 NOS), (3) FTIL PT.NO. 790029125 (1 SET-3 ITEMS-03 NOS), (4) FTIL PT. NO. 790029195 (1 SET-4 ITEMS-11 NOS) (5) FTIL PT.NO. 790029105A (SET- 01 ITEM-02 NO), (6) FTIL PT. NO. 790029135 ( 01 SET-04 ITEMS-08 NOS) (7) FTIL PT.NO. 790029175 (01 SET-05 ITEMS-6 NOS) (8) FTIL PT.NO. 790029829 (01 SET-02 ITEMS-04 NOS. (9) FTIL PT.NO. 790029185 (01 SET-06 ITEMS-12 NOS. (10) FTIL PT.NO. 790029155A (01 SET-06 ITEMS-14 NOS),	Annex-3Ø-F-6(i)	C1
527	29160613	OVERHAULING KIT OF EITHER M/S. ELECTROMECH MAKE OR M/S. KNORR BREMSE MAKE WIPER MOTOR OPERATING VALVE (M/S. ELECTROMECH'S MAKE R-12 & M/S. KNORR BREMSE MAKE NR 12R) AS PER ANNEXURE. ONE SET COMPRISING OF 17 ITEMS IN 30 NOS.	Annex-3Ø-F-3(i),(ii)	B2
528	29160820	3/4 INCHES CUT OUT COCK (ISOLATING COCK VENT TYPE) WITH DRAIN FOR MR/BC & DB CIRCUIT IN WAG-9, WAP-7 & WAP-5 LOCO AS PER CLW DRG.NO. 1209-18-306-188. ALT-NIL.	Annex-CONV-12(vii)	C1
529	29161058	SET OF WIPER ARM ASSEMBLY COMPLETE [LH and RH- 02 NOS. EACH] AS PER CLW SPECN. NO. CLW/MS/3/050 ALT-5 and CLW DRG. NO. 1209.07-303.021 , ONE SET CONSISTS 02 ITEMS 04 NOS.	Annex-3Ø-A-9(i)	A
530	29161186	AIR FLOW MEASURING GAUGE FOR 3 PHASE LOCO AS PER CLW DRG NO.1209-18-306.226 ALT-1 '	Annex-3Ø-I-2(ii)	B1
531	29168302	OVERHAULING KIT FOR M/S. ELECTROMECH MAKE OR M/s.Knorr Bremse make WIPER MOTOR. ONE SET CONSISTS OF 16 ITEMS 48 NOS AS PER ANNEXURE.	Annex-3Ø-A-9(i)	B2
532	29168650	SET OF END COCK FOR 3 PHASE LOCO. ONE SET CONSIST OF 02 ITEMS 04 NUMBERS.(1) 1 INCH END COCK (RH)AS PER FTRTIL PART NO.007003000 OR KBIL PT NO.141081 QTY.02 NOS (2) 1 INCH END COCK(LH) AS PER FTRTIL PART NO.007003100 OR KBIL PART NO.135875 QTY.02 NOS.	Annex-CONV-12(vii)	B2
533	29168820	SET OF OVERHAULING KIT M/S. KNORR BREMSE MAKE AIR DRYER FOR THREE YEAR REPLACEMENT ITEMS CONTAINING 62 ITEMS AND 136 NOS. IN SETS AS PER ANNEXURE ATTECHED	Annex-CONV-10(x)	B1
534	29169318	OPERATING VALVE FOR WIPER MOTOR FOR WAP-7 & WAG-9 (3 PHASE) CLASS OF LOCOMOTIVES AS PER CLW's SPECN. NO. CLW/MS/3/050 ALT. 6. CLW's DRG. NO. 1209-08.032-023 & 1209-07.303-018.	Annex-3Ø-A-9(i)	C1
535	29170011	CAB HEATER VENTILATION (POSNO.69.6).415 VAC/110VAC-2KW AS PER CLW SPEC NO.CLW/WS/3/0109.ALT-D AND ABB DOCUMENT NO HBTA271080 R0002 .	Annex-CONV-8(viii) 2ND POH	B2
536	29170035	DRIVER SEAT AND PEDESTAL ASSEMBLY FOR 3-PHASE LOCO AS PER CLW SPECN. NO. CLW/MS/3/021 ALT-5 and CLW DRG. NO. 1209.08-131.010 ALT-6 .	Annex-CONV-8(xxiii) & Annex-3Ø-G-2(i),(ii) (2ND POH FOR P7 P5 ) MCI IN WAG9 )(CONDITIONAL FOR CONVENTIONAL LOCO)	A
537	29170047	SET OF LOCK AASLY.CONSIST OF 1]CAB DOOR AS PER CLW SPECN.NO.CLW/MS/111/ALT.5 .CLW DRG NO.1209-09 133-21 ALT.2 .1209-09.133-022 ALT-2 .1209-09.233-023 ALT-2 .QTY-2 RH AND 2 LH.2]MACHINE ROOM DOOR AS PER CLW DRG.NO.1209-09-133-071 ALT-1 QTY 2 NOS.	Annex-3Ø-I-3(ii) (2ND POH FOR P7 P5 MCI IN WAG9)	A
538	29178060	A SET OF DOOR LOCKS COMPRISING OF 03 ITEMS AND 03 NOS. EACH SET AS PER SKETCH NO. ELS/AQ/WAG-9/SK NO. 0017, REV-0. Set	Annex-3Ø-I-3(ii) 2ND POH FOR P7 P5 MCI IN WAG9	B1
539	29250055	Hose for cab heater as per CLW Spec no CLW/ES/3/436 Alt-A, CLW Drq No-CLW/ES/3/SK1/0436	Annex-3Ø-E-12(ix)	C1

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556	38164681	AIR BRAKE HOSE COUPLING FOR BRAKE PIPE TO RDSO DRG NO. SK-73547, ALT-14 MATERIAL AND SPECIFICATION CONFORMING TO RDSO'S SPECIFICATION NO 02-ABR-02, AMENDMENT NO 4 OF SEPTEMBER 2016 AND APPENDIX-F (FIRM`s TO SUBMIT OFFER WITH LATEST RDSO DRAWING & SPECIFICATION)	Annex-CONV-12(i)	A
557	38320083	CLEVIS PIN WITH WASHER TO RDSO DRG. NO. SK-69508 ALT-4. THIS ITEM IS RESERVED FOR PROCUREMENT FROM RDSO APPROVED SOURCES ONLY.	Annex-CONV-10(vi) & Annex-3Ø-A-5(i)	B2
558	41075560	SHEETS LEATHEROID 0.25 MM THICK TO BSS 2768 OF 1965.	Annex-CONV-12(i)	C1
559	41077556	Teflon ring confirming to Drg. No. 10R812-076 Rev.'F' for HS15250 armatures. NOTE:- Only RDSO approved sources will be considered for placement of P.O.	Annex-CONV-1(xiii)	B1
560	41077568	SET OF INSULATING SCREEN FOR EP CONTACTOR TYPE TCP-3421.25 M COMPRISING OF 2 ITEMS 12 NOS. AS PER SKETCH NO. BSL/ELW/SK.NO.9013 ALT-1. AS PER SKETCH NO. THERE ARE TWO DRG. NO. MENTIONED AS UNDER:- 1. INSULATING SCREEN= DRAWING NO. 3TWD 112.041A [REF-14] ALT-5. OF 6 NOS IN SET. 2. INSULATING SCREEN= DRAWING NO. 3TWD 112.041A [REF-13] ALT-5 OF 6 NOS IN SET	Annex-CONV-9(xiv)	C1
561	41077581	SET OF INSULATING TUBE FOR LINE CONTACTOR COMPRISING OF 03 ITEMS 78 NOS.AS PER SKETCH.NO.BSL/ELW/SK.NO.9016 ALT-2"	Annex-CONV-9(xiv)	C1
562	41134709	Set of insulating components (Glass-Epoxy) for smoothing Reactor type SL-30 to CLW DRG.NO.3TWD.073.13B ALT-4 AND CLW SPECN.NO.4TMS.073.003A as per SK No. ELW/BSL/MISC/SK.No.002 ALT-1 (one set consist of 11 Items 89 Nos )	Annex-CONV-10(viii)	C1
563	42083709	No voltage HRC diased fuse 6 Amps, 500 Volts AC/250 Volts DC. As per CLW Specn. No.CLW/ES/F-8 Alt-E and Drg. No.CLW/ES/SK-1/F.8/C. [Item to be procured from CLW approved sources only]	Annex-I 9(xii)	C1
564	42119182	HALOGEN LAMP FOR TWIN BEAM HEAD LIGHT 100/90 WATTS, 24 V, H4 P45 TYPE HAVING TWO FILAMENTS 100 WATTS FOR NORMAL AND OTHER FOR DIMMER AS PER RDSO SPECN. No. ELRS/SPEC/HL/01 OF JULY 1997 AND 1999 AND ELRS/SPEC/PR/0024 [REV-1 SEPT-2004] OR LATEST [MAKE - MICO/PHONIX/HALONIX/GE/PHILIPS/SYL VANIYA/AUTOPAL	Annex-CONV-5(i)	C1
565	45156955	LAMP VACUUM 110V/15W BC TO DRG. No. ELW/BSL/WAM4/4/125.056 ALT-1. NOTE: ONLY CLW AND ICF APPROVED SOURCES WILL BE CONSIDERED FOR PLACEMENT OF P.O.	Annex-CONV-8(x)	C1
566	45158034	Signal Lamp.110 V.10 plus/minus.2 watts as per Drg No.ELW/BSL/WAM4/4/125.038 ALT-2 and CLW SPECN No.CLW/ES/L-2 ALT-1.	Annex-CONV-8(x)	C1
567	45170435	LEAD ACID BATTERIES OF 110 VOLTS, 75AH CAPACITY, CONFORMING TO RDSO SPECN. No. PE/EMU/SPEC/0014-2000 REV 'O' WITH AMENDMENT No. 1 & 2. NOTE: THIS ITEM IS RESERVED FOR PROCUREMENT FROM RDSO APPROVED SOURCES ONLY.	Annex-CONV-10(i)	A
568	47413657	Carbon brush for TM TAO-659 to RDSO Drg. No. EL.BS.002 [MOD] Alt.- 3 with RDSO Specification No. ELRS/SPECN/CB/0027-Rev.- "O" or latest. NOTE:- Item is reserved for GM, C.Rly. approved sources only.	Annex-CONV-1(xii)	B1
569	47413669	Carbon brush for Hitachi TM type HS-1050 ER/HS-15250 A to RDSO Drg. No. EL-3-BS-013 [MOD] ALT-5 with RDSO Specification No. ELRS/SPEC/CB/0027 REV-O or latest. Note: This item is reserved for procurement from RDSO approved sources only.	Annex-CONV-1(xii)	A
570	61252359	CLEAN SILICA SAND, FREE FROM CLAY, LOAMS, MICA AND OTHER FOREIGN MATERIAL AS PER SPECIFICATION NO: AAR M-916-51, PACKED IN 10 KG. WATERPROOF POLYTHENE BAGS.	Annex-3Ø-B1-1(i)	A
571	62311608	Tube M.S.Galvanised Medium Grade 25mm Duly ISI marked galvanised mild steel tubes electrical resistences welded (ERW)/High frequency induction welded (HFIW) / Hot finished welded (HFW) confirming to IS:1239 (Part-I)/1990 (Fifth revision) with Amdt. No.1 to 5. Screwed at both ends as per IS:554/1985, Socketed at one end and other end protected with plastic thread protector. The socket confirming to IS:1239 (Part-II) / 1992 (Fourth revision) with Amdt. No. 1 in random length of 4 to 7 Mtrs.	Annex-CONV-11 (viii)	C1

572	73034204	BOLT M.S.BLACK HEX HEAD ROUND BODY WITHOUT NUTS SIZE: M 16 X 50 MM LONG TO IS:1363/PART-I/2002. (FOURTH REVISION.)PROPERTY CLASS 4.6 MATERIAL SHOULD BE PACKED IN DOUBLE GUNNY BAGS. (ITEM RESERVED FOR PURCHASE FROM MSEs)	Annex-CONV-11(vi)	C1
573	73034230	Bolt M.S. black hex head round body without nuts size: M16 X 65MM TO IS:1363/PART-I/2002(FOURTH REVISION) PROPERTY CLASS 4.6 MATERIAL SHOULD BE PACKED IN DOUBLE GUNNY BAGS. (ITEM RESERVED FOR PURCHASE FROM MSEs)	Annex-CONV-12(i),(vi)	C1
574	73035063	BOLT M.S. BLACK HEX HEAD ROUND BODY WITHOUT NUT M24 X 75MM TO IS: 1363:2002 (Part 1).(ONLY FOR NSIC UNIT.)	Annex-CONV-11 (vi)	C1
575	73035191	BOLTS M.S.BLACK HEX HEAD ROUND BODY WITHOUT NUT SIZE M27 X 100 MM TO IS: 1363:2002 (Part 1).(ONLY FOR NSIC UNIT.)	Annex-CONV-11(v)	C2
576	73040101	BOLTS M.S. HEX HEAD M5 X 20 TO IS: 1363:2002 (Part 1).(ONLY FOR NSIC UNIT.)	Annex-CONV-12(i),(vi)	C2
577	73100262	M.S. hexagon Nut M 16 as per IS:1363 ( PART-3): 2002/ISO-4034-1999 (4th Rev) & Property class 5,confirming to IS:1367 (Part 6 ) 1994.	Annex-CONV-11 (vi)	C1
578	73100389	NUTS M.S. HEX BLACK DIA M27 TO IS: 1363 PART III/92 REAFFIRMED 98 THIRD REVISION.	Annex-CONV-11(v)	D
579	73110656	NUTS M.S. HEX BRIGHT SIZE- M24 TO IS: 1364/60 PART III 1992 REAFFIRMED 1998 THIRD REVISION.(ONLY FOR NSIC UNIT)	Annex-3Ø-A-7(i)	D
580	73140508	NUTS M.,S. HEX SLOTTED BLACK DIA M16 TO IS 2232/67 REAFFIRMED 2001 FIRST REVISION. (INSPECTION BY RITES ONLY)	Annex-CONV-11(v)	C1
581	73160751	NUTS M.S.CASTLE M24 TO IS:2232 OF 67 REAFFIRMED 2001 FIRST REVISION.	Annex-CONV-11(v)	C1
582	73160957	NUTS M.S. CASTLE DIA M36 TO IS: 2232/1967 REAFFIRMED 2001 FIRST REVISION.	Annex-CONV-11(v)	C1
583	73321473	PINS SPLIT COTTER STEEL 3.2. X 32 MM TO IS-549/74 REAFFIRMED 2001 SECOND REVISION.	Annex-CONV-11(v)	C2
584	73321977	PIN SPLIT COTTER STEEL DIA 4 MM X LENGTH 45 MM TO IS 549/74 REAFFIRMED 2001 SECOND REVISION. IS 723/72 REAFFIRMED 2001 FIRST REVISION.	Annex-CONV-12(i),(vi)	D
585	73322775	PINS SPLIT COTTER STEEL DIA 5 MM X LENGTH 71 MM TOIS 549/74 REAFFIRMED 2001 SECOND REVISION.	Annex-3Ø B2-4(iii)& Annex-CONV-11(iv)	C2
586	73510294	HEX HEAD SCREW M.S. M5 X 15MM ZINC PLATED IS:1364/2002 REAFFIRMED IN 2007 (PT-2)/TSD	Annex-CONV-12(i),(vi)	C2
587	73511274	HEX HEAD SCREW STEEL M 10 X 65 MM [ZINC PLATED] IS: 1364-2002 [Pt-2]	Annex-3Ø B2-4(iii)& Annex-CONV-11(iv)	C1
588	73511717	Hex. head screw (full threaded) M 14x 120 x 2P Zinc plated (Property class 8.8) to IS: 1364/2002 (Pt-II)	Annex-CONV-11(vi)	C1
589	73511857	HEX SCREW STEEL M16 X 40 IS 1364/PART-II/92.	Annex-CONV-11 (vi)	C1
590	73513143	Hexagon Head Screw M 20 x 45 mm long x 2.5 mm (Pitch) to IS:1367 (Part-3) 2002 property class 8.8 make and property class must be embossed on the screw.	Annex-CONV-11(vi)	C1
591	73531157	SCREW MACHINE SLOTTED COUNTER SUNK HD.STEEL M8 X20IS 1365/1978 REAFFIRMED 2001 THIRD REVISION.	Annex-CONV-12(i),(vi)	D
592	73560716	HEX HEAD SCREW STEEL M8 X 40MM ZINC PLATED IS:1363/2002 [ PART-2] REVISION 4 REAFFIRMED IN 2007	Annex-CONV-11(vi)	C1
593	73563572	HEX HEAD SCREW-IS:1364/2002 (Pt-2) ISO 4017-M18X45mm,P.C.- 8.8 ZINC PLATED. MANUFACTURES NAME AND PROPERTRY CLASS MUST BE EMBOSSED/INDENTED ON HARDWARE.	Annex-CONV-12(i),(vi)	C1
594	73700850	Plain washer punched steel A 18 to IS: 2016-1967. 'Reaffirmed 2001 first revision, suitable (or M16 bolt. Material:- Fe310-0. Galvanising to specification IS: 1573- 86 to service grade No.2 of tab.2	Annex-CONV-12(vi)	C1
595	73700952	WASHER PLAIN PUNCHED STEEL 22 M.M SUITABLE FOR M20 DIA BOLTS TO IS:2016/67 REAFFIRMED 2001 FIRST REVISION. (INSPECTION BY RITES ONLY). NOTE :-Full qty to be delivered at CRD Depot. Validity must be 60 days or else offer may be passed over.	Annex-CONV-12(vi)	C1
596	73701051	Washer plain punched steel A 26 to IS: 2016-1967. Reaffirmed 2001 first revision, suitable for M24 bolt. Material:- Fe310-0. Galvanising to specification IS: 1573- 86 to service grade No.2 of tab.2.	Annex-CONV-12(vi)	C1
597	73701105	WASHER PLAIN PUNCHED STEEL 33 mm [ TYPE-A] to IS : 2016/67, TABLE NO.2 REAFFIRMED 2001 [ FIRST REVISION] AND MATERIAL STEEL TO IS 2062/2011 E 250 GRADE -A GALVD.	Annex-CONV-12(vi)	C1

598	73710301	WASHER SPRING STEEL SINGLE COIL WITH FLAT ENDS M10 IS:3063/65 REVISION 2 AMENDMENT NO. 1 OF 2009 REAFFIRMED IN 2010	Annex-CONV-12(vi)	C2
599	73710453	WASHER SPRING STEEL SINGLE COIL WITH FLAT ENDS M16 TO IS: 3063/94 REAFFIRMED 1999 SECOND REVISION	Annex-CONV-12(vi)	C1
600	73710477	SPRING WASHER M18-B SPRING STEEL IS:3063/1994 AMENDMENT NO. 1 OF 2009 REVISION 2 REAFFIRMED IN 2010 ..	Annex-CONV-12(vi)	C2
601	73710507	SPRING WASHER STEEL SINGLE COIL WITH FLAT END M 20 TO IS 3063/1994.REVISION 2,AMENDMENT 1 OF 2009 REAFFIRMED 2015	Annex-CONV-12(vi)	C1
602	73710556	WASHER SPRING STEEL M-22 TO IS:3063/1994 REVISION 2 AMENDMENT NO. 1 OF 2009 REAFFIRMED IN 2010.	Annex-CONV-12(vi)	C1
603	73710600	WASHER SPRING STEEL SINGLE COIL WITH FLAT ENDS M24 IS:3063/1994 REVISION 2 AMENDMENT NO 1 OF 2009 REAFFIRMED IN 2010.	Annex-CONV-12(vi)	C1
604	73710702	WASHER SPRING STEEL SINGLE COIL WITH FLAT ENDS M30 TO IS: 3063/94 REAFFIRMED 1999 SECOND REVISION.	Annex-CONV-12(vi)	C1
605	73710805	WASHER SPRING SINGLE STEEL COIL WITH FLAT ENDS SIZE M36 IS:3063/1994 REVISION NO. 2 AMENDMENT NO 1 OF 2009 REAFFIRMED IN 2010.	Annex-CONV-12(vi)	C1
606	73851188	BOLTS HEX HEAD HIGH TENSILE M16 X50MM TO IS 1364/PART I/92 REAFFIRMED 1998 THIRD REVISION PROPERTY CLASS 8.8 (reserved for NSIC unit)	Annex-CONV-11 (vi)	C1
607	73851220	BOLTS HEX HEAD HIGH TENSILE M12 X 35 PROPERTY CLASS 8.8 TO IS:1364/1992 REAFFIRMED 1998 THIRD REVISION.	Annex-CONV-1(iv)	C1
608	73851267	BOLTS HEX HEAD HIGH TENSILE M18 X 85 TO IS 1364/1992 REAFFIRMED 1998 THIRD REVISION PROPERTY CLASS 8.8NOTE :- OFFER MUST BE VALID FOR 60 DAYS OR ELSE OFFE MAY BE PASSED OVER.	Annex-CONV-11(iv)& (vi)	C1
609	73851322	NUT HEX M 16 to IS:-1364/1994 REAFFIRMED 1998 THIRD REVISION PROPERTY CLASS 8.8	Annex-CONV-11 (vi)	C2
610	73851346	NUT HEXAGONAL M18 TO IS : 1364/1994 REAFFIRMED 1998 THIRD REVISION PROPERTY CLASS 8.8.(only for NSIC unit)	Annex-CONV-11(iv)& (vi)	C2
611	73853203	SCREW HEX HD.HIGH TENSILE SIZE M18 X 2.5 X 95 LONG TO IS 1367/PT.II/92 REAFFIRMED 1998 THIRD REVISION. PRORERTY CLASS 8-8.UNBRAKO/PFL/TVS/BML/LPS/SKD/POOJA FORGE BRAND MANUFACTURERS NAME AND PROPERTY CLASS MUST BE EMBOSSED INDENTION HARDWARE	Annex-3Ø-D2(xiv)	D
612	74058162	ROPE WIRE STEEL ROUND STRAND 6 MM DIA ORDINARY FOR R.H.O. LAY 6X 19 CONTRUCTION PERFORMED WIRE TENSILE STRENGTH DESIGNATION 1770 GALVD "B" TYPE TO IS: 1835/76 FIBRE CORE BREAKING LOAD OF WIRE ROPE 19.6 KN TO IS: 3459/77.( offer must be valid for 60 dadys or else same may be passed over )	Annex-3Ø-B2-3(ii)	C1
613	74902799	SEALING WIRE OF SOFT MILD STEEL WIRE GALVD. OF 0.9 MM DIA (20 SWG) HAVING SOFT MILD STEEL WIRE OF 0.45 MM DIA (26SWG)WRAPED AROUND IT WITH 4 TO 5 TURNS PER CENTIMETRE LENGTH OF THE 0.9 MM DIA WIRE THE FINISHED SEALING WIRE TO BE SUPPLIED IN COILS OF 10 CMS DIA OF 1 KG WEIGHT EACH ISS:-280/LATEST. ( INSPECTION BY RITES ) Note :- Offer must be valid for 60 days or else offer may be passed over.	Annex-CONV-12(i)	C1
614	74908157	"CLAMP GRIP BULL DOG PATTERN WITH(SPEN BSS/462)M.S.U. BOLTS & NUTS & LOCK NUTS FOR 8 MM DIA WIRE ROPE."	Annex-CONV-11(v)	C1
615	75323886	Sheet Rubber plain soft quality for jointing 3.2mm thickness x 1 Mtr. width x 10Mtr. length (with permissible tolerance +/-0.3mm) subject to steam pressure Type-A Gr.II SI:638/79 or latest	Annex-CONV-8(ii)	C1
616	75324337	Neoprene Rubber sheets width 1 meter (one meter) x thickness 1.5mm, running length as per CLW Specification No.CLW/ES/R-24/D	Annex-CONV-8(ii)	B2
617	75613839	Flexible Polyvinyl Chloride (PVC) Flooring Sheet conforming to RDSO Spec. No. RDSO/2006/CG-12, Rev. 1 with Corrigendum-1 of June-2015 & Amdt.-3 of August-2016. Shade, colour and pattern as per RDSO's Sample Code No. NACFLG-02 for Non-AC Coaches. Size:- 14000 mm x 1620 mm x 2 mm.	Annex-CONV-8(ii)	A
618	77031910	SYNTHETIC RESIN FULLY GLOSSY HIGH QUALITY AIR DRYING FINISHING PAINT AS PER IS: 2932/1974 COLOUR SHADE 631 OF IS:5 (LIGHT GREY) FOR TFP TANK. Ltr	Annex-CONV-12(i)	C1
619	80014823	SERVO PRIME -57 (IOC) TURBINOL OIL 57 TO IS 3098/75 GRADE IV EQUIVALENT BRAND TO SS-57, SERVO PRIME-76 (UPL 80013820 File No:3138)	Annex-CONV-12(iii)	D

620	80030191	MOBILUX EP2 GREASE [IMPORTED LUBRICANT] FOR TM BEARING OF WAP-5 LOCOS.	Annex-CONV-12(iii)	C1
621	80030245	LIPLEX-2(BAMEROL) OR LANTHEX-EP2 GREASE FOR SERVOMOTOR OF AM 12 TYPE PANTOGRAPHS IN THE PACKING OF 5 KG.	Annex-CONV-12(iii)	C1
622	80030270	MP3(BAMEROL) OR MOBILUS-EP2 GREASE FOR BALL BEARING PINS AND PLUNGERS, OF PANTOGRAPH.IN THE PACKING OF 5 KG.	Annex-CONV-12(iii)	C1
623	80031365	Grease for Application on Traction Motor Gear case of ALCo Diesel Locos: SERVOCOAT 170-T (IOC)/BLUE COAT- '3' (BL & CO.)/MAK CAMEX COMPOUND-(G) (BPC)/Balmerol prototrak lube of (M/s BL & co.)	Annex-CONV-12(iii)	A
624	80031559	LUBRICANT FOR PRESSING IN OF WHEELS ON AXLE IN 1 KG PACK, 1)NALCO -3295 OF M/S.NALCO INDIA LTD.KOLKATA OR 2)ARCA MOUNTING PASTE OF M/S.FAG BEARINGS INDI LTD.NEW DELHI.	Annex-CONV-12(iii)	C1
625	80031614	Grease 'O' Rings and Rubber components of Pneumatic valves based on a combination of Phenyl Methyl Sillicon and Synthetic Ester Oil. Brand : Molykote 55 M Silicon Grease. RDSO.MP.MI-15(Rev.12) Jan-2019 or latest. <u>see page No.4. &amp; Sr.No.8.5.</u>	Annex-CONV-12(iii)	B2
626	80034810	Grease for Application on Axle Box Cylindrical Roller Bearing of ALCo Diesel Locos: SERVOGEM RR-3 (IOC) BALMEROL MULTI-GREASE 'LL-3' (BL & CO.)/ MAK RR GREASE-3 (BPC)/Lithon-RR3(HPC) Conforming to RDSO specification no. WD-17-misc.-92 .	Annex-CONV-12(iii)	A
627	80090280	INHIBITED MINERAL INSULATING TRANSFORMER OIL AS PER IS: 335:2018 AND RAILWAYS REQUIREMENT AS PER RDSO LETTER NO.TI/ PSI/ INSOIL/ POLICY/19/01-18 DATED 26.07.2019 (PL Close TPL 80090291)	Annex-CONV-7(i)	A
628	81011120	Sulphuric Acid Battery Grade Concentrated as per IS : 266/1993 (3rd Revision)Amdt.No.1, Reaffirmed 2003 with standard packing in HDPE Stackable. Capacity: 20 Kgs	Annex-CONV-10(i)	C1
629	81034878	Silica Gel confirming to IS:3401 of 1992. Crystal size of 4 to 8 mm cubes in breadth,width and height with max. 10 percent of quantity ordered of size less than 4mm.The bulk density (max.) 600gm/ltr,indicating type (blue to pink). Packing should be done in 25 Kg/bag packet in double HDPE bag with inner poly liner(it should be moisture proof). (PL CLOSE PL 81909573)	Annex-CONV-12(ii) & Annex-3Ø-D-1(v)	C1
630	84111975	PACKING ASBESTOS PLAITED THROUGHOUT NEITHER LUBRICATED NOR GRAPHITE ROUND SHAPE 38MM DIA IS - 4687/80 GR.I	Annex-CONV-12(i)	C1
631	84134045	synthetic Rubber Neoprene Bonded cork Composition sheet GR. RC-70-C fine grannuals size 900+/- 15 mm x 600 +/- 10mm x6.35 mm Think to ISS 4253 pt.II 1980 sheet to be stamped with mfg's. name, month year of Mfg. in Ink & packed in polythene bag."	Annex-CONV-12(i)	D
632	84134082	Synthetic Rubber Neoprene bonded cork composition sheet grade RC- 70 C fine granules size 900 mm +/- 15 mm x 600 mm +/- 10 mm x 4.8 mm thick to IS 4253 part II of 1980.The sheets shall be duly stamped with manufacturer's name & date of manufacture in indelible ink and suitably packed in transparent polythene bags duly sprinkled with chalk powder individually.	Annex-CONV-12(i)	C2
633	84134094	Synthetic Rubber Neoprene cork sheet Composition sheet Grade RC-70 -C fine grannuals Size-900 mm X +/- 15 mm X 600 mm +/-10 mm X 9.5 mmthick to IS:4253 PT II 1980 sheet to by stamped with Mfg's Name,month year of Mfg. in INK of packed in polythene bags.	Annex-CONV-12(i)	C1
634	84134100	Synthetic rubber Neoprine or Nitrite bonded cork composition sheet grade RC-70-c fine granules; size 900 mm +/- 15 mm X 600 mm +/-10mm X 12 mm thick to IS 4253 Part II of 1980 the sheet shall be duly stamped with Mfg. name & date of mfr.in indelible ink and suitably packed in transparent polythene bags duly sprinkled with french chalk powder.	Annex-CONV-12(i)	C1
635	85010649	SINGLE ROW DEEP GROOVE BALL BEARING NO.6004.MATERIAL TO BE PROCURED FROM APPROVED SOURCES ONLY.	Annex-CONV-2(i)	C2
636	85011253	Single Row Deep Groove Ball Bearing No. 6200 i.e. on both side bearing cage with metal shield. NOTE:- This item is reserved for procurement from RDSO approved sources only.	Annex-CONV-2(i)	C2
637	85011307	SINGLE ROW DEEP GROOVE BALL BEARING 6205 WITH C-3 CLEARANCE. NOTE:- Item is strictly reserved for procurement from RDSO approved sources only.	Annex-CONV-2(i)	C2

638	85011770	SINGLE ROW DEEP GROOVE BALL BEARING NO. 6302 WITH C-3 CLEARANCE. NOTE:- Item is strictly reserved for procurement from RDSO approved sources only.	Annex-CONV-2(i)	C1
639	85011794	SINGLE ROW DEEP GROOVE BALL BEARING NO. 6304 [NBC 320] WITH C-3 CLEARANCE. NOTE:- Item is strictly reserved for procurement from RDSO approved sources only.	Annex-CONV-2(i)	C1
640	85011800	SINGLE ROW DEEP GROOVE BALL BEARING NO. 6305 with C3 CLEARANCE. NOTE:- Item is strictly reserved for procurement from RDSO approved sources only.	Annex-CONV-2(i)	C1
641	85011812	SINGLE ROW DEEP GROOVE BALL BEARING NO. 6306 with C/3 CLEARANCE. NOTE:- This item is strictly reserved for procurement from RDSO approved firms only.	Annex-CONV-2(i)	C1
642	85011850	Single Row Deep Groove Ball Bearing No. 6310 with C-3 clearance. NOTE:- This item is strictly reserved for procurement from RDSO approved sources only.	Annex-CONV-2(i)	C1
643	85011873	SINGLE ROW DEEP GROOVE BALL BEARING NO. 6312 WITH C3 CLEARANCE. NOTE:- This item is strictly reserved for procurement from RDSO approved firms only.	Annex-CONV-2(i)	C1
644	85011885	Single Row deep groove ball bearing No. 6313 with C 3 clearance. NOTE:- This item is strictly reserved for procurement from RDSO approved firms only.	Annex-CONV-2(i)	B2
645	85011915	Single row deep groove ball bearing No. 6316 with C3 clearance. NOTE:- This item is strictly reserved for procurement from RDSO approved sources only.	Annex-CONV-2(i)	C1
646	85013973	SINGLE ROW RIGID RADIAL BALL BEARING NO. 6204 ZZ LIGHT SERIES WITH 2 SHIELDS. NOTE:- Item is strictly reserved for procurement from RDSO approved sources only.	Annex-CONV-2(i)	C2
647	85014850	Single Row Deep Groove Ball Bearing No. 6409 with C-3 clearance for MVRF.	Annex-CONV-2(i)	D
648	85019951	SINGLE ROW DEEP GROOVE BALL BEARING NO. 6205 RS WITH 2 [TWO] SHIELDS. NOTE:- Item is strictly reserved for procurement from RDSO approved sources only.	Annex-CONV-2(i)	C1
649	85030673	SELF ALIGNING BALL BEARING NO. 1305. NOTE:- This item is strictly reserved for procurement from RDSO approved firms only.	Annex-CONV-2(i)	C1
650	85031185	Self aligning ball bearing No. 2204. NOTE:- This item is strictly reserved for procurement from RDSO approved firms only.	Annex-CONV-2(i)	C1
651	90701057	Mild Steel galvd wire 1.6mm dia 16 SWG to IS 280 /2006 or Latest material grade 3 as per IS 7887/1992 and Galvanized coating grade light coated [soft] as per IS 4826/1979.	Annex-CONV-12(i)	C1



## MUST CHANGE ITEM FOR WAP -5 LOCOMOTIVES

SN	PL No.	Description	Quantity (AAC)	Quantity per loco (for must change item)	Remarks, if any	Reference (RDSO Report No. RDSO/2022/EL/RM/0198 (Rev.1) Annexure-1
1	38130725	KNUCKLE FOR HIGH TENSILE CBC	35	2 No	IOH	A5
2	25130808	CLEVIS FOR TRANSITION SCREW COUPLING	15	2 No	IOH	A5
3	25328098	CLEVIS PIN WITH WASHER FOR CBC COUPLER	10	2 No	IOH	A5
4	29130323	KNUCKLE FOR TIGHT LOCK CO "H" Type CBC	75	2 Nos.	IOH	A5
5	38130774	KNUCKLE PIVOT PIN WITH WASHER	88	2 Nos.	IOH	A5
6	29130220	CLEVIS LOAD PIN WITH WASHER	75	2 Nos.	IOH	A5
7	23105719	LONG LIFE SIDE BUFFER ASS	40	4 Nos.	IOH	A6
8	29250031	Set of Elastomeric Sealing Rubber for all type of 3 Phase locos	15	1 Set	IOH	A2
9	29168648	WIPER BLADE ASSELY.	1276	4 No	TOH & IOH	A9
10	29161046	REPAIR KIT FOR WIPER SERVO MOTOR	220	4 Set	TOH & IOH	A9
11	29160613	OVERHAULING KIT FOR OPERATING VALVE OF WIPER ASSEMBLY AS PER M/S. KNORR BREMSE'S	120	2 Nos.	TOH & IOH	A9
12	23143745	SET OF WIPER ARM COMPLETE	100	1 Set	IOH	A9
13	29161770	Overhauling kit for wiper servo motor (WSM) for M/s ELGI make wiper system of 3 phase locomotives M/s ELGI KIT part no - EU6552001. each kit consist of 15 items in 33 Nos. as per annexure attached	320	4 Nos.	TOH & IOH	A9
14	29161071	Metering pump (water pump) for wiper arrangement of 3 phase loco as per CLW Specn.No.CLW/MS/3/050 Alt-6 and CLW Drg.No.1209.07-403.023 as per Knorr Bremse India Pvt. Ltd. Part No.1/68936/B/ II 81038 or equivalent.	150	2 Nos.	TOH & IOH	A9
15	29070028	SET OF SAND PIPE ARRANGEMENT FOR WAP5	12	1 Set	TOH & IOH	B1/1
16	29160390	KIT FOR SANDING EQUIPMENT MANIFOLD TO FTIL PART NO.790006125	30	1 Set	IOH	As per OEM
17	61252359	DRY SCREENED SAND OF LOCOMOTIVE.	299	280 KG	TOH & IOH	B1/1
18	29238225	Set of Rubber Hose Assembly for Bogie Piping & PBU	20	1 Set	IOH	As per OEM
19	23359511	Helical spring washers type B M20, material spring steel, Zinc plated ( Passivated) conforming to IS:3063.( Note: Material to be procured from CLW approved vendors only	72	HDS	IOH	As per shed practice
20	23359493	Helical spring washers type B M16,material spring steel	163	HDS	TOH & IOH	As per shed practice
21	23359481	Helical spring washers type B M12,material spring steel, Zinc plated ( Passivated) conforming to IS:3063.	250	HDS	TOH & IOH	As per shed practice
22	23359572	Helical spring washers type B M36,material spring steel, Zinc plated ( Passivated) conforming to IS:3063.( Note: Material to be procured from CLW approved vendors only).	20	HDS	TOH & IOH	As per shed practice
23	23359470	SPRING WASHER SPRING STEEL SINGLE COIL WITH FLAT END, ZINC PLATED SIZE B-10 CONFORMING TO IS-3063-1994, REV-2. Amnd-1	175	HDS	TOH & IOH	As per shed practice
24	23359468	Helical spring washers type B M8, material spring steel, Zinc plated ( Passivated) conforming to IS:3063.( Note: Material to be procured from CLW approved vendors only	200	HDS	TOH & IOH	As per shed practice
25	29310015	Set of Lock Nut F.S. All.Steel for 3 Phase WAP-5 :Loco	PB	2 Set	TOH & IOH	RDSO guideline & TC 142
26	29308010	MODIFIED TRACTION LINK BOLT M20	1800	24 No	IOH	B2/3
27	29100010	Elastic ring for WAP-5 LOCO	92	4 No	IOH	B2/3
28	29140067	BRAKE PAD SET SIZE 24MM X 400 CM SQUARE	112	16 No	TOH & IOH	B2/4
29	29162622	Maintenance kit for disc brake actuators (PBAC+PBACF)for WAP5 Locos	16	4 Set	IOH	F/5
30	29250079	Axle box O ring	4300	16 No	TOH & IOH	B2/5
31	80010301	Optigear 220 oil (WAP5 gear case oil)	1808	8 Ltr	TOH & IOH	B2/6 Consumable
32	80014987	BP Energear oil (Hurth coupling of WAP5 loco)	350	4 Ltr	TOH & IOH	consumable
33	29250092	Set of 'O' Ring for WAP -5 gear case assembly a	40	4 Set	IOH	B/6
34	29250067	MEMBRANCE FOR HURTH COUPLING	218	8 No	TOH & IOH	B2/7
35	29100203	SPHERI BLOC FOR CASE TORQUE ARM	112	8 No.	TOH	B2/8
36	29940047	Spheri bloc for traction motor	180	12 No.	TOH	B2/8
37	29105183	SET OF SPHERI BLOCS FOR WAP-5 LOCO	10	1 Set	IOH	B2/8
38	29810061	OVERHAULING KIT FOR PANTOGRAPH TYPE IRO3H	68	2 Set	IOH	C/1.2
39	25888018	Metalised carbon strip without ADD	300	4 No	TOH & IOH	A2
40	29160431	Kit for Panto Equipment Manifold Assly to FTRTIL	30	1 Set	IOH	SMI 298
41	25718642	IOH REPLACEMENT KIT FOR SINGLE BOTTLE VCB	20	1 Set	IOH	C/4

SN	PL No.	Description	Quantity (AAC)	Quantity per loco (for must change item)	Remarks, if any	Reference (RDSO Report No. RDSO/2022/EL/RM/0 198 (Rev.1) Annexure-1
42	25718150	AOH replacement kit for old 22CB loco VCB of Schneider electric part code NPSF5510740_S. Each kit consists of 17 items 52 Nos. as per Annexure attached.	22	1 No.	TOH	C/4
43	29718569	AOH REPLACEMENT KIT FOR VCB	22	1 NO.	TOH	C/4
44	80010398	Transformer oil	3000	3 LTR	TOH & IOH	consumable
45	29250158	Set of Nitrile Rubber Gasket For 3-Phase Loco Main Transformer	47	1 Set	IOH	C/6
46	29258455	SET OF 'O' RING AND GASKET FOR M/s FLOWTECH MAKE TRANSFORMER OIL PUMPS MODEL 1575 FOR 3 PHASE LOCOMOTIVES (WAP5 & WAP7) CONSISTING OF 02 ITEMS IN 03 Nos AS PER ATTACHED ANNEXURE AND AS PER DRAWING NO WR/BRCY/EL 4-AUX01.	170	2 Set	TOH & IOH	E/4
47	81034878	SILICA GEL (BLUE) CONFIRMING TO IS: 3401-1992	3000	4 kg	TOH & IOH	C/6 & D/1
48	29030031	SET OF CYLINDRICAL ROLLER BEARING FOR THREE PHASE TRACTION MOTOR TYPE 6 FXA 7059	48	4 Set	IOH	D/2
49	29940023	BELLOWS FOR TRACTION MOTOR OF WAP-5	72	8 No.	IOH	D/2
50	29948149	Set of Labyrinth Ring Bearing cap and clamp plate (NDE) for WAP-5	11	4 Set	IOH	D/2
51	29940114	Set of Labyrinth Ring and Bearing Cover (DE) for Wap-5	24	4 Set	IOH	D/2
52	29610060	Instrument Cooling Fan for Bus Converter	462	30 No	IOH	D/3
53	29610023	HEADLIGHT LAMP 200W, 110V DC.	400	4 No.	TOH & IOH	E/3
54	29612962	SET OF FLASHER LIGHT GASKET & MARKER LIGHT	70	1 Set	IOH	E/3
55	29250109	Set of Gasket for Head Light Dual Housing and Bulb	100	1 Set	IOH	E/3
56	29440014	IMPELLER FOR OIL COOLING BLOWER	84	2 Nos	IOH	E/6
57	85011332	Bearing 6208 ZRC3 for Machine Room Blower	400	4 No	TOH & IOH	E/8
58	29030080	Bearing 6206ZRC3 for Traction Motor Scanenger Blower Motor	336	4 No.	TOH & IOH	E/13
59	29518398	Set of copper pipes for main compressor	4	2 Set	IOH	F/1
60	29610140	FIRE DETECTION UNIT SENSOR FILTER	90	1 No.	TOH & IOH	E/18
61	29960046	AOH/IOH/POH KIT FOR BPS GASKET OVERHAULING KIT FOR SECHERON CONTACTOR	160	1 Set	IOH	D/1
62	29968057	Set of Contact Tips for 3 pole 150 AMP Contactor Type LC1-F150 AFD (Per Pole 02 Fixed & 01 moving contact, 02 Deflector , 01 BACD plate, Fixing Screw,Washer) LC1F150 AFD Reference co LAS FF431A (make Schneider) and CLW/ES/3/0201. (OLD PL NO 29980033)	PB	4 SET	IOH	E/1
63	29510053	ANNUAL OVERHAULING KIT FOR COMPRESSOR TYPE RR20100CGM	102	2 Set	TOH	F/1
64	80016730	SS 150 oil for CP (Compressor )	4200	2.5 Ltr	TOH & IOH	consumable
65	29160170	KIT FOR COMPRESSOR	30	1 NO.	IOH	F/1
66	35638424	AOH KIT FOR ELGI COMPRESSOR TYPE CRC-150 TO PART NO.072403659 OF M/S.ELGI AS PER ANNEXURE ATTACHED ONE SET CONSISTS 14 ITEMS-19 Nos.	100	1 No.	TOH & IOH	F/1
67	23629060	CARBON BRUSH FOR BABY COMPRESSOR (ELGI MAKE MOTOR), TO DRG NO.WR-CCG-EL/4-CB-003 ALT 5 GRADE EG.14D (I).	100	1 No.	TOH & IOH	F/1
68	29161400	SET OF MAINTENANCE COMPONENTS FOR LOW AND HIGH TONE HORNS	220	4 Set	TOH & IOH	F/4
69	29161009	KIT FOR TWO WAY HORN VALVE AS PER FTRTIL PART NO.790014105 CONSISTING OF 7 ITEMS AND 11 Nos.	260	4 Nos.	TOH & IOH	F/4
70	25189220	SET OF OVERHAULING KIT FOR KNORR BREMSE CCB SYSTEM II FOR	48	1 Set	TOH & IOH	SMI 298
71	29161617	OVERHAULING KIT FOR AUTO DRAIN VALVE (PART NO-182281) FOR 3-PHASE ELECTRIC LOCOMOTIVES WITH CCB SYSTEM TO M/s KBIL KIT PART NO-XKI/KIT/02445. (EACH SET CONSISTS OF 23 ITEMS IN 33 Nos AS PER ANNEX.) - Spec:-	65	1 No	TOH & IOH	SMI 298

SN	PL No.	Description	Quantity (AAC)	Quantity per loco (for must change item)	Remarks, if any	Reference (RDSO Report No. RDSO/2022/EL/RM/0198 (Rev.1) Annexure-1
72	29161654	OVERHAULING KIT FOR 821 VENT VALVE (PART NO-785259) FOR 3-PHASE ELECTRIC LOCOMOTIVES WITH CCB SYSTEM TO M/s KBIL KIT PART NO-XKI/KIT/01590. (EACH SET CONSISTS OF 11 ITEMS IN 11 Nos. AS PER	50	1 No	TOH & IOH	SMI 298
73	29160546	SPECIAL M KIT FOR E-70 BRAKE CONTROL AS PER FTIL PART	30	1 Set	IOH	F/5
74	29160080	KIT FOR DRIVER DIRECT BRAKE VALVE	70	2 Set	IOH	F/5
75	29160923	SET OF MAINTAINCE KIT FOR (i) 3/8 AIR LINE SIEVE (ii) 1/2 INCH VALVE	28	2 Nos.	IOH	As per OEM
76	29160364	KIT FOR DIRECT BRAKE EXHAUST FOR 3-PHASE ELECTRIC LOCOMOTIVES WITH E-70 BRAKE	29	1 NO.	IOH	F/5
77	29160352	1" CHECK VALVE KIT	29	1 NO.	IOH	SMI 298
78	29160340	SET OF KIT FOR P.C.VALVE.	30	1 NO.	IOH	SMI 298
79	29160285	KIT FOR D2 RELAY VALVE	60	2 No.	IOH	SMI 298
80	29160248	SET OF MAINTENANCE KIT FOR EP RELAY VALVE FOR 3-PHASE ELECTRIC LOCOMOTIVES WITH E-70 BRAKE SYSTEM	145	5 Nos.	IOH	F/5
81	29160212	Set of Maintenance kit for break away protection valve for WAP-5 Locos t	29	1 NO.	IOH	SMI 298
82	29160200	MENT.KIT.FOR FLOW M.G.	29	1 NO.	IOH	SMI 298
83	29160182	SET OF KITS FOR E.70 BRAKE CONTROL UNIT	30	1 NO.	IOH	F/5
84	29160157	KIT FOR ISOLATING COCK	120	4 Nos.	IOH	SMI 298
85	29160110	KIT FOR AUTO DRAIN	200	3 Nos.	TOH & IOH	SMI 298
86	29160091	KIT FOR EMERGENCY EXUST VALVE	100	2 Nos.	IOH	SMI 298
87	29160078	KIT FOR DRIVER BRAKE CONTROLLER	60	2 Nos.	IOH	SMI 298
88	29160066	MAINTENANCE KIT FOR DRIP CUP, CONSISITING	50	1 No.	TOH & IOH	SMI 298
89	29160030	KIT FOR UNLOADER EXHAUST VALVE	200	2 Nos.	TOH & IOH	SMI 298
90	29160017	KIT FOR 1 1/4" CHECK VALVE	90	3 Nos.	IOH	SMI 298
91	29161782	KIT FOR DUPLEX CHECK VALVE FOR 3- PHASE ELECTRIC LOCOMOTIVES WITH E-70 BRAKE SYSTEM (M/S FTRTIL KIT PART NO - 790002145 AND D & M REF NO- RK - AB85-14), EACH KIT CONSISTS OF 4 ITEMS IN 5 Nos. AS PER ANNEXURE	30	1 nO.	IOH	F/5
92	29162191	Overhauling Kit for M/s KBIL Make stop cock (Part No-188738) for 3-phase electric locomotives with CCB System to M/s KBIL Kit Part No. XKI/KIT/02496.(Each Kit consists of 14 items in 20 Nos. as per Annex)	180	9 Nos.	IOH	SMI 298
93	29163043	SET OF OVERHAULING KIT FOR CONTROL PORTION	18	1 NO.	IOH	SMI 298
94	29163067	SET OF OVERHAULING KIT FOR CONTROLLER	18	1 NO.	IOH	SMI 298
95	29163079	SET OF OVERHAULING LOT FOR DISTRIBUTOR VALVE	18	1 NO.	IOH	SMI 298
96	29163080	Set of overhauling kit for control portion	18	1 NO.	IOH	SMI 298
97	29163092	Set of overhauling Kit for control portion BP	18	1 NO.	IOH	SMI 298
98	29161848	Overhauling Kit for Control Portion BC (Part No-787802)	18	1 Set	IOH	SMI 298
99	80031626	Silicon based grease for lubrication of rubber component in distributor valve (pneumatic valve)in 100 gm	30	50 gm	TOH & IOH	As per shed practice being consumable item
100	25188630	M/12 AOH KIT FOR AIR DRYERS OF M/S.FTIL MAKE	5	1 Set	TOH	F/6
101	25188677	IOH Kit for air dryer of M/S Knorr Bremse	5	1 Set	IOH	F/6
102	29160583	IOH KIT FOR AIR DRIER OF FTRTIPL MAKE CONSISTING OF 19 ITEMS	5	1 NO.	IOH	F/6
103	25189062	AOH/TOH KIT FOR M/S. KNORR BREMSE INDIA LTD. MAKE -AIR DRYER, MODEL NO-LTZ0125 FOR ELECTRIC LOCOMOTIVES CONSISTING OF 12 ITEMS/SUB KIT IN 24 Nos. AS PER ANNEXURE & SMI No-RDSO/2017/EL/SMI/0305, Rev-0 dtd -17.04.2017	6	1 no.	TOH	F/6
104	25188847	AOH KIT M-12 AIR DRYER MAKE SIL AS PER ANNEXURE SIL MAKE OR EQUIVALENT,KIT CONSISTS OF 07 ITEMS 09 Nos	21	1 No.	TOH	F/6

SN	PL No.	Description	Quantity (AAC)	Quantity per loco (for must change item)	Remarks, if any	Reference (RDSO Report No. RDSO/2022/EL/RM/0198 (Rev.1) Annexure-1
105	11892171	AOH (M-12) Kit for Air Dryer make. Trident Pneumatics Pvt. Ltd. Set consist of following 03 items. Sr.No. Description 1) Filter Element 2) Filter Bottom Seal Kit 3) Double Popper Valve Spare Kit.	40	1 No.	TOH	F/6
106	75613920	Flexible Poly Vinyl Chloride [PVC] Flooring Sheet	40	1 No	TOH & IOH	G/3
107	29700085	FOOT SWITCH SPRING LOAD	220	6 No	IOH	G/4
108	29700036	SET OF SPRING LOADED SWITCH	1	2 Set	IOH	G/4
109	29380029	CAB ACTIVATING KEY SWITCH	92	2 No.	IOH	G/4
110	29700050	Switch for Headlight intensity used as ZPRD(POS no 317) type-PS/0/3/5800 A24 Code 11736442391 as per CLW spec. no CLW/ES/3/0075 Alt-B	98	2 Nos.	IOH	G/4
111	29700048	SWITCH FOR HEAD LIGHT 16A-380V USED AS BLPR (POS.NO.316) TYPE - SBM-PS/7/9/S800A20 AS PER CLW SPECN.NO-CLW/ES/3/0075 ALT. B AND ABB DOC. NO. 3EHP585743R2204.	98	2 Nos.	IOH	G/4
112	25208640	AOH KIT FOR MEDHA MRT-922 SPM	34	1 Set	TOH	As per OEM
113	25208640	AOH Kit for Medha make SPM type MRT-922 as per Annexure A & B as per RDSO SPEC. ELRS/SPEC/SPM/0002, Rev-4	34	1 No.	TOH	As per OEM
114	25208238	AOH KIT FOR PULSE GENERATOR SPEEDOMETER OF M/S AUTOMETER ALLIANCE LTD	30	1 no.	TOH	As per OEM
115	85011022	SINGLE ROW DEEP GROOVE BALL BEARING	420	4 No.	TOH & IOH	E/14
116	85019707	Single Row Deep Groove Ball Bearing SKF -6304 with C3 Clearance	15	1 No.	TOH & IOH	E/16
117	85012038	BALL BEARING 6306 WITH C3 CLEARANCE	210	2 Nos.	TOH & IOH	E/16
118	29230032	SET OF HOSES FOR WAP-5 LOCOMOTIVES	20	1 Set	TOH & IOH	B2/4 , E/12
119	25728337	NYLON CABLE TIE, SIZE 8+/- 0.5 MM X 300 MM	12000	300 No	TOH & IOH	As per shed practice being consumable item
120	25728325	NYLON CABLE TIE,TYPE-III	16000	100 No	TOH & IOH	As per shed practice being consumable item
121	30351108	AIR BRAKE HOSE COUPLING FOR BRAKE PIPE	1200	2 No	TOH & IOH	SMI 298
122	30351091	Air brake hose coupling for feed pipe.	1200	2 No	TOH & IOH	SMI 298
123	80030075	Mobilux EP2 (TM (DE & NDE bearing of WAP5)	160	1 Kg	TOH & IOH	consumable
124	80030130	Exxon Arapen RB 320 (WAP5 axle box grease)	176	5 kG	TOH & IOH	consumable
125	74058022	ROPE WIRE STEEL FLEXIBLE ROUND STRAND	5000	2 Mtrs	IOH	B2/3
126	29688048	Lithium Chloride battery 3.6volt, size 2000MAH	40	3 No	IOH	D/3
127	85019732	SRDG Ball Bearing SKF 6312 with C3 clearance	1000	8 Nos.	TOH & IOH	E/6
128	31437072	IOH REPLACEMENT KIT FOR SINGLE BOTTLE VCB OF M/S.AAL TYPE VCBA 25.10 TR TO KIT PART NO.4300007100/32 AS PER RDSO SMI NO.ELRS/SMI/0236 (REV-1). AS PER LIST ATTACHED.	4	1 SET	IOH	SMI 236
129	29350748	INTER LOCK WASHER M20 FOR WAG9/WAP-7/WAP-5 LOCOS AS PER CLW-DRG.NO.1209-01-113-01 REF-8, Alt-7. Spec:	2300	24 Nos.	TOH & IOH	SMI 316
130	25259635	GASKET FOR PRESSURE/VACCUM GUAGE	3500	20 Nos.	TOH & IOH	As per shed practice being consumable item
131	25258382	Rubber Part KIT FOR 1 1/4" BP/FP Cut Off Angle Cock with Vent (2-part design)	300	4 Nos.	TOH & IOH	As per OEM
132	29310039	ALL STEEL LOCKNUT SIZE M24 FOR THREE PHASE LOCOMOTIVES AS PER CLW SPEC NO CLW/MS/3/089, ALT-4.	8760	24 Nos.	TOH & IOH	RDSO guideline & TC 142
133	29310088	ALL STEEL LOCKNUT SIZE M20 FOR THREE PHASE LOCOMOTIVES AS PER CLW SPEC NO CLW/MS/3/089, ALT-4.	11000	72 Nos.	TOH & IOH	RDSO guideline & TC 142

SN	PL No.	Description	Quantity (AAC)	Quantity per loco (for must change item)	Remarks, if any	Reference (RDSO Report No. RDSO/2022/EL/RM/0198 (Rev.1) Annexure-1
134	29315177	ALL STEEL LOCKNUT SIZE M16 FOR THREE PHASE LOCOMOTIVES AS PER CLW SPEC NO CLW/MS/3/089, ALT-4.	9500	40 Nos.	TOH & IOH	RDSO guideline & TC 142
135	29358012	SAFETY WASHER VS-20 AS PER CLW DRG. NO. 1209.01-411.046 ARTICLE NO. 6 CLW DRG. NO. 1209.01-411.046 Spec:	260	28 Nos.	IOH	As per shed practice
136	29358024	SAFETY WASHER VS-8 AS PER CLW DRG. NO. 1209.01.411	300	48 Nos.	IOH	As per shed practice
137	29358036	SAFETY WASHER VS-10 AS PER CLW DRG. NO. 1209.01-41	350	56 Nos.	IOH	As per shed practice
138	29358048	SAFETY WASHER VS-16 AS PER CLW DRG. NO. 1209.01.41	2160	360 Nos.	IOH	As per shed practice
139	29358073	SAFETY WASHER VS-12 CLW DRG. NO. 1209.01.411.046 A	2160	360 Nos.	IOH	As per shed practice
140	29100033	LATERAL STOP (BUMP STOP) FOR WAP-5 AS PER ABB Drg. NO.1A-016-00007 REV.1 or LATEST. Qty.04 Nos.	15	1 Set	IOH	As per shed practice
141	29100409	SET OF LOCKING PLATES FOR PIVOT RING HOUSING RING	108	12 Set	IOH	As per shed practice
142	27880023	METALISED CARBON STRIPS SUITABLE FOR EMU PANTOGRAPH WITH AUTO DROPPING DEVICE PROVISION	700	4 Nos.	TOH & IOH	A2
143	85902433	Double Row Deep Groove Ball Bearing SKF no 4306	210	2 Nos.	TOH & IOH	E/5
144	23167610	DRAIN COCK 1 2RDTYPE	36	4 Nos.	IOH	SMI 298
145	25238644	Set of flexible reinforced rubber pipe to Specn.SAE-100 R1	100	1 Set	TOH & IOH	C4
146	29161095	Rubber block (cleaning block) as per RDSO drg. No. SKDP-3410 Alt.1.	184	8 Nos.	TOH & IOH	B2/4
147	29162245	Rubber kit for 1-1/4" inch ball type angle cock (3-part design) for BP/FP as per RECON DRG No.-REC/1074 Or Equivalent, Consisting 5 (Five) Items in 7 (Seven) Nos As per Annexure enclosed And conforming to CLW DRG no 0/2/65/386 alt-6.	500	4 Nos.	TOH & IOH	SMI 298
148	84139018	MEDIUM STRENGTH LOCTITE - 243/ANABOND. 122/FEVICOL ANR 134 [ OIL RESISTANT ] ONLY. IN BOTTLE OF 50 ML	450	4 Nos.	TOH & IOH	Consumable
149	84139950	Loctite 518 Sealant/ Loctite of M/s.Henkel Adhesiv Technologies Pvt Ltd..250 ml. (Part of set of Sealants for TM type ITB 2022 OTA 03).	400	4 Nos.	TOH & IOH	Consumable
150	73511109	"SCREWS MACHINED HEXAGONAL HEAD STEEL M10 x 25-8.8 TO IS:1364 (PART-2) : 2002".	50 HDS	18 Nos.	TOH & IOH	As per shed practice
151	25188665	VALVE SEAT SUITABLE FOR 1.1/4" CUT OFF ANGLE COCK SUITABLE FOR BRAKE PIPE OF ELECTRIC LOCOS AS PER RDSO DRG.NO.WD-88123-S-01 ALT-2,ITEM 2 AND WD-88123-S-02 ALT-4,ITEM 7	250	4 Nos.	TOH & IOH	SMI 298
152	29230240	BOGIE TO BODY HOSE PIPE CONNECTION (SIZE3/4 INCH) FOR WAP7 LOCOMOTIVES AS PER DRG NO.NGP/TRS/3/13. 227 REV. 03 SR. NO. 08	80	1 Set	TOH & IOH	B/4
153	29250857	SET OF GASKET FOR INTERVEHICULAR COUPLER FOR 3-PHASE LOCOS EQUIPPED WITH 500 KVA HOG CONVERTER AS PER RDSO/PE/SPEC /AC/0177-2013 (REV. 01) .EACH SET CONSISTS OF 02 ITEMS IN 03 Nos. 1) FOUNDATION RUBBER GASKET (SEAL STRIP RCF DRG NO-LW71332) FOR IV COUPLER SOCKET ASSEMBLY. QTY - 01 Nos. 2) SEALING RING GASKET ( RSDO DRAWING NO. RDSO/PE/SK/AC/0235-2021 REV.-0 ) OF COUPLER BODY AND COVER FOR IV COUPLER SOCKET ASSEMBLY.QTY- 02 Nos.	350	4 Nos.	TOH & IOH	C/4

SN	PL No.	Description	Quantity (AAC)	Quantity per loco (for must change item)	Remarks, if any	Reference (RDSO Report No. RDSO/2022/EL/RM/0198 (Rev.1) Annexure-1
154	29258200	SET OF GASKET FOR WIND SCREEN FOR 3 PHASE LOCO SET CONSIST OF 02 ITEMS 30 MTRS. AS PER CLW DRG.NO.1209.08.130. 263 Alt.3 REF. 4 & 5. (1)RUBBER GASKET (EXTRUDED RECEPTANCE) AS PER CLW DRG.NO.1209.08. 130.263, Alt.3 REF.4, QTY. 15 METERS (2)RUBBER GASKET (EXTRUDED RECEPTANCE) AS PER CLW DRG.NO.1209.08.130.263, Alt.3 REF.5 QTY. 15 MTRS. TOTAL 30 METERS. (OLD PL NO 29981372)	24	0.5 SET	IOH	A10
155	29301154	SET OF HEX HEAD BOLT GRADE AS PER IS 1364. GRADE 8.8 ZINC PLATED FOR 3 PHASE DAMPERS. I). BOLT M16X50 FULL THREADED. QTY-16 Nos. ii). BOLT M16X60 THREAD-40MM.QTY-08 Nos. iii). BOLT M16X65 THREAD 40MM.QTY.-08Nos. Iv). BOLT M16X70 THREAD 44MM. QTY.-08 Nos. v). BOLT M16X80 THREAD 40MM. QTY-08 Nos. SET CONSIST OF 05 ITEMS IN 48 Nos. FIRM SHOULD BE CLW APPROVED VENDOR FOR STANDARD	50	1 Set	IOH	As per shed practice
156	23359456	Helical spring Washers type B M6, Material Spring Steel, Zinc Plated ( PASSIVATED) CONFIRMING TO IS-3063-1994	100 HDS	32 Nos.	TOH & IOH	As per shed practice
157	29350116	SET OF SEALING WASHER FOR WAP-5/WAP-7 LOCO, EACH SET CONSISTING OF 02 ITEMS (1) SEALING WASHER'A' DIA 68X60X2.5 MM THICK MATERIAL COPPER DIN-7603 AS PER CLW DRG NO 1209-01-013-014 ALT-7	500	6 Nos.	TOH & IOH	As per shed practice

Encl: SCR Lr. No. E.221/Maintenance Schedule/Vol. Dt:07.04.2025				Annexure			
Must Change Items During TOH/IOH for 3 Phase Locomotives Type WAG 9/WAP 7							
Sr.	PL No	Long Description	ABC	1st TOH (27 months)	IOH (54 months)	2nd TOH (81 months)	
1	11034129	High Tensile Transition C B Coupler with Uncoupling Gear, RDSO Drg.No.SK.DL-3430, Item-1 to 39 & 41,Alt-7	N	X	X	X	
2	11169436	CLEVIS PIN WITH WASHER FOR TRANSITION CBC TO RDSO/STR No.56 BD 07 TO DRG NO.RDSO/SK.69508 (LATEST REVISION)	C1	X	√	X	
3	12860074	BRAKE SHOE COMPLETE,STEP SIZE FOR WHEEL DIA BELOW 1050 mm TO IR PART NO D/ BG-1753/X2, ALT 7 or latest REF NOS D/BG-1753/1,2 & 3 AND RDSO MATERIAL SPECIFICATION NO. M & C/MTD/101/2007 OR LATEST.	B2	√	√	√	
4	25010335	Set of Inner Racer for Axle Box of WAG-9/WAP-7 Locomotives. Set consisting of Two items as follows. 1) Plain Inner Racer as per M/s.FAG Drg.No.EDDF- 807259.02-0021 IRZLF2W10000. Qty/set = 01 No. 2) Lipped Inner Racer as per M/s.FAG Drg.No.EDDF- 807259.02-0121 IRZLF2W10000. Qty/set = 01 No.	N	Condition Based	Condition Based	Condition Based	
5	25107033	Safety sling complete for Bogie tie rod with ref nos.1 to 5 as per S.C.Rly drg no.B/TRS/ BOGIE/3/244, Alt-A.	C1	√	√	√	
6	25109297	Loco side buffer assembly as per RDSO Drg. No.SKDL-4725.	C1	Condition Based	Condition Based	Condition Based	
7	25130353	LOCO SIDE BUFFER ASSEMBLY COMPLETE for ELECTRIC LOCOMOTIVES as per RDSO SKDL-4561 Alt-1, SPECIFICATION No.MP-0.41.00.03 (Rev 0.01) of AUG. 2005.	C1	Condition Based	Condition Based	Condition Based	
8	25140012	Brake Shoe key as per S.C.Rly Drg No.A3/EL/WAM4/0499, Alt-2 or latest.	C1	√	√	√	
9	25140050	Modified Hand Brake Assembly complete (Gear type ) as per RDSO Drawing Nos. SKEL-4993 Alt '0' or Latest SKEL-4998 Alt '0' or Latest SKEL-4999 Alt '1' or Latest SKEL-5000 Alt '0' or Latest SKEL-5001 Alt '0' or Latest SKEL-5002 Alt '1' or Latest	C1	Condition Based	Condition Based	Condition Based	
10	25141030	Brake shoe complete nominal size to IR Part. No.D/BG-1753, Alt-8 and Ref. Nos. D/ BG/1753/1,2,3 and RDSO Specn.No. M&C/MTD/ 101/2007	A	√	√	√	
11	25148266	Clevis with handle to ref.No.A & B of RDSO Drg.No.SKDL-2496, ALT-6.	C1	√	√	√	
12	25160151	Safety Valve 3/4" set at 11.5 kg/sq.cm type E.1 to CLW Specification No.0/3/65/93, Alt-3 with additional check nut as indicated in the drawing No.ELS/BZA/M4/G1/G4/G5/SK-1/3/196, Alt-A, Sheet No.2.	C1	Condition Based	Condition Based	Condition Based	
13	25167959	Sander Incoming Air Hose Assembly Complete confirming to S.C.Rly drg no.C/ELS/LGD/ PN.EQPT/3/13,Alt-2 or latest.	C1	√	√	√	
14	25168125	Sealing Washer for Air Brake Hose Coupling BP/FP to Stone India Part No.08273621 ( M/ s.Stone India old part no.08273601 ).	C1	√	√	√	
15	25168162	Maintenance kit consisting of 19 nos for Air Dryer of Model No. 975-124 of M/s FTIL make for conventional locos. Full description as per attached document.	D	√	√	√	
16	25168289	IC2 Overhauling kit for Throttle valve for Pnatograph type AM-12. Each set consists of 4 items.1) Ring type R. No.7 GSEC Part No. GSEC/Panto/042 CC Part No. C019199 qty/set- 01 no. 2) Joint for Valve GSEC/Panto/100 C019100 – 01 no. 3) piston Ring GSEC/Panto/063 C019150 – 01 no. 4) Joint GSEC/Panto/111 C019100 – 01 no.	C1	√	√	√	
17	25169658	IOH Kit for M/s Rotex make EP Valve of Model No. 3327 for M/s AAL make VCB consisting of 16 items . (1). Valve spring (Ventilfeedr) 16 - 01 No. (2). Pilot Valve 61-01 No (3). Seat 'O' Ring 19 - 04 Nos. (4). Body 'O' Ring 20 - 02 Nos. (5). Pilot 'O' Ring 21- 03 nos 6. Adopter 'O' Ring 83 - 03 Nos. 7. Tube 'O' Ring 174 - 2nos. 8. Kolben (piston) 'O' ring 18 - 01 no. 9. Deckel (cover) 02 - 01no. 10. Ventleboden (Valve bottom) 03 - 01 No. 11. Kolben (piston) 04 - 01 No. 12. Ventilshaft (Valve shaft) 05 - 01 No. 13. Ventilteller (Pressure plate) 07 - 02 Nos.	C1	√	√	√	
18	25174216	Modified Sunvisor assembly complete unit to use on 25 KV AC Electric locos type WAM4/WAG5/ WAG7/WAP as per CLW drg no. 05/1/35/149, Alt-7 with latest alteration if any.	C1	Condition Based	Condition Based	Condition Based	
19	25178131	Laminated glass for wind screen for modified WAP-4, WAG-9 & WAP-7 Locos as per SC Rly Drg.No.C/ELS/LGD/BF/4/08. Alt-2.	C1	X	√	X	
20	25178246	Sunvisor sheet assembly to use on modified sunvisor assembly on 25KV AC Electric Locos to ref nos. 2.5 to 8, 27 & 28 as per CLW drg no.05/1/35/149, Alt-7.	C1	√	√	√	
21	25180162	Three piece design 1¼ BC BP & FP Angle cock with Vent as per Drg. No.C/ ELS/ LGD/ Pn.Eqpt/3/54.	C1	√	√	√	
22	25180782	Piston Packing Cup ( Piston Head Disc ) for Brake Cylinder to Wabco part no.96556 ( WSF part no.IC6032 ) to material type-1 of Cl.4.2.1 (a) compound D of Cl.4.3.4.1 of specification IRS R-48-88 and to RDSO Drg No. SKDP.3061. Alt-1.	B2	√	√	√	
23	25184374	Pressure switch for Circuit breaker [QPDJ] as per CLW Specn No.CLW/ES/S-24/I. or confirming to S.C.Rly drg no. A4/EL/WAM4/1753 Alt-2 .	C1	√	√	√	
24	25188264	Maintenance kit for Air Dryer, Model No. LTZ 015.2 kit consists of 58 items . FULL DESCRIPTION AS PER ATTACHED DOCUMENT.	C1	√	√	√	
25	25253086	Gasket for temperature sensor cover of traction motor of type 6FRA-6068 as per ABB Drg. No. 3EHM413056	C1	√	√	√	
26	25254959	Gasket for Brake Cylinder as per ref nos. 1 & 2 of S.C.Rly drg no. A4/EL/WAM4/0075.	C1	√	√	√	
27	25256191	Rubber bush used in Aluminum cable cleat fir traction motor as per CLW Drg.No.4TWD.0.96.036	C1	√	√	√	
28	25258710	Joint for circuit breaker (DJ) as per S.C.Rly Drg No.B/TRS/RC/4/136 .(SHELF LIFE ITEM)	C1	√	√	√	
29	25258758	GASKET FOR BRAKE CYLINDER as per S.C.Rly drg no.B/TRS/RC/3/160. (SHELF LIFE ITEM).	C1	√	√	√	
30	25259520	Set of SEALING Rings for Traction Motor type 6 FRA 6068-Set consist of 02 items of each 01 No as per Ref. No.1& 2 of CLW Drg. No. 4TWD.0960.030 Alt.2	C1	√	√	√	
31	25328268	Set of Pins for Brake Rigging of WAG-7 Locos. Each set consists of nine items as follows. S.No. (1) Hanger Lever Pin CLW Drg No. 06.4.19.22, Alt-2 Material EN-19 Qty/set 16 Nos. (2) Brake Cylinder Pin CLW Drg No.01.4.19.53, Alt-11 Material EN-19 Qty/set 4 N0s. (3) Friction Arm Pin CLW Drg No.01.4.19.46, Alt-10 Material EN-19 Qty/set 8 Nos. (4) Clevis Pin CLW Drg No.01.4.19.45, Alt-13 with Local Alt-"R" Material EN-19 Qty/set 16 Nos. (5) Hanger Lever Pin CLW Drg No.01.4.19.42, Alt-16 Material EN-19 Qty/set 8 Nos. (6) Equaliser Pin CLW Drg No.01.4.19.40, Alt-15 Material EN-19 Qty/set 16 Nos.	C1	√	√	√	

32	25378582	Set of Bushes for WAP-7 locos consisting of 16 items as per Ref. No.1 to 16 of RDSO Drawing No. SKVL-586 with latest Alteration and material confirming to IS: 1875 Class-I. SAFETY ItemSet consists of 16 items S.N. Item Ref. No. as per RDSO Drg.SKVL-586 Qty/Set 1 Bush 01 32 Nos. 2 Bush 02 16 Nos 3 Bush 03 08 Nos 4 Bush 04 08 Nos 5 Bush 05 08 Nos 6 Bush 06 16 Nos 7 Bush 07 32 Nos 8 Bush 08 32 Nos 9 Bush 09 08 Nos10 Bush 10 08 Nos11 Bush 11 24 Nos12 Bush 12 40 Nos13 Bush 13 128 Nos14 Bush 14 16 Nos15 Bush 15 08 Nos16 Bush 16 0	C1	✓	✓	✓
33	25440408	Terminal Block Assembly Complete for Auxiliary Motors ( MVMT/MVRH/MPV ) to Ref Nos.1 to 7 as per S.C.Rly Drq No.B/TRS/MOD/WAM4/SK-1/3/61, Alt-2 Sheet no.3.	C1	✓	✓	✓
34	25441050	Terminal Block Assembly Complete for Auxiliary motors for ref no. 1 to 7 ( MCP/MVSL/MVSI ) as per S.C.Rly drq no. B/TRS/MOD/WAM4/SK-2/3/61, Alt-1 .	C1	✓	✓	✓
35	25518148	Overhauling kit for Auxiliary Compressor type CRC 150 consists of 11 items. 1. OBS piston rings 60 dia Pt.No. 022401039 Qty. 01 no. 2. Circlip internal 18mm Pt.no.000917218 Qty. 2 nos. 3. Gasket 0.25 (case to cylinder) LG 01) Pt.no.00041164A Qty. 2 Nos. 4. Gasket 0.4 (crank case to cylinder LG 01) Pt.No.00041164B Qty. 2 nos. 5. Gasket 0.8 (crank case to cylinder LG 01) Pt.no.00041164C Qty 2 nos. 6. Gasket cylinder to valve flat Pt.no.00041152A Qty 1 no. 7. Gasket V/P to head Pt.no.00041153A Qty. 1 no. 8. Ring packing 17.5x22x3 LG-02 Pt.no.000521950 Qty. 1 no. 9. Valve finger type 60 dia	B2	✓	✓	✓
36	25538100	Set of O rings for M/s Flow well make converter oil pump of Model No. 1515 for 3 phase locos. set consists of 03 items. 1) Teflon o ring of OD 251x ID 242 x 4 mm - 2nos. 2) Teflon o ring of OD 241 x ID 232 x 4 mm - 1no.. 3) Nitrite o ring of OD 85 x ID 75x 5 mm - 1 no	C1	✓	✓	✓
37	25611197	Set of LED marker light for AC Electric Locomotives. (each set comprising of pair of Red and White marker light as per RDSO Spec. No. ELRS/Specn/PR/0022 (Rev-1 Oct.2004).	C1	Condition Based	Condition Based	Condition Based
38	25611215	Set of LED based Flasher light unit as per RDSO Specn.No.ELRS/SPECN/LFL/0017,Rev-1 of Sept'2004 consisting of [1].Lamp unit to Qty/Set-02 Nos.[2].Flasher Control unit to Qty/Set-02 Nos.	C1	Condition Based	Condition Based	Condition Based
39	25718058	IOH REPLACEMENT KIT FOR NEW 22CB LOCO Schneider make VCB Si.No. MFR38246 IOH REPLACEMENT KIT-22CB Qty 1 NPRM515001 0 POPPET VALVE 1 2 NPRM539010 0 MOLECULAR SIEVE(4KG/NOS) 1 3 NPRM551016 2 SEALING STRIP 1 4 NPRM551039 0 O-RINGLSC:612/3 REV-A 1 5 NPRM551045 0 SELON WASHER (NYLON) 1 6 NPRM551049 0 FILTER ELEMENT FOR AIR FILTER 1 7 NPRM551081 0 GASKET WASHER 1 8 NPRM554002 3 PISTON SEAL 1 9 NPRM557005 0 PISTON SEAL 1 10 NPSF5540030 DAMPER ASSY 1 11 MFR14533 REPAIR KIT FOR MAGNET VALVE 1 12 NPRM223026 0 PVC TROPICALISED GASKET,2D 527156B 0.3 13 NPRM511060 0 REPAIR KIT FOR AIR FILTER 1 14 NPSC5150020 VALVE DISC LSC-99/1 REV-A 2 15 NPRM551016 3 SEALING WASHER FOR 22CBLSC-612/6 REV-A 8 16 NPRM551098 0 PLASTIC WASHER, LEGRIS PT NO 0602231120 8 17 NPRM551103 0 GROMMET FOR CYLINDER 2 18 NPRM551109 0 M6 X 20 PARTIAL THREADED SCREW 8 19 NPRM551111 0 RETAINING WASHER FOR 22CBLSC-826 8 20 NPRM554006 0 SPECIAL WASHERLSC-554 REV-A 1 21 NPRM557008 0 O-RINGLSC:/4 2 22 NPRM557009 0 O-RINGLSC:612/2 REV-A 1 23 NPRM557010 0 O-RINGLSC:612/1 REV-A 1 24 NPRM557011 0 O-RINGLSC:612/5 REV-A 1	B2	x	✓	x
40	25718060	AOH REPLACEMENT KIT FOR NEW 22CB LOCO VCB MFR38245 AOH REPLACEMENT KIT-22CB Item Code Description of item Qty NPRM2230260 PVC TROPICALISED GASKET,2D 527156B 0.3 NPRM5110600 REPAIR KIT FOR AIR FILTER 1 NPSC5150020 VALVE DISC LSC-99/1 REV-A 2 NPRM5260600 VALVE 2 NPRM5510163 SEALING WASHER FOR 22CBLSC-612/6 REV-A 8 NPRM5510980 PLASTIC WASHER, LEGRIS PT NO 0602231120 8 NPRM5511030 GROMMET FOR CYLINDER 2 NPRM5511090 M6 X 20 PARTIAL THREADED SCREW 8 NPRM5511110 RETAINING WASHER FOR 22CBLSC-826 8 NPRM5540060 SPECIAL WASHERLSC-554 REV-A 1 NPRM5570080 O-RINGLSC:/4 2 NPRM5570090 O-RINGLSC:612/2 REV-A 1 NPRM5570100 O- RINGLSC:612/1 REV-A 1 NPRM5570110 O-RINGLSC:612/5 REV-A 1 MFR14532 REPAIR KIT FOR MAGNET VALVE 1 MFR13791_01 REPAIR KIT FOR REGULATOR 1	B2	✓	x	✓
41	25718071	"Intermediate overhauling (IOH) replacement kit (4300007100)/32) for single bottle VCB of M/s. AAL type VCBA 25.10.Tr". each set consists of 20 items. 1) AOH kit - 1kit 2) Kit for Pressure switch (Assembled) -1 no. 2.1. Pressure switch - 1no. 2.2. Male stud elbow assembly - 1no. 3) Molecular sieves - 4kgs 4)PI Cu washer dia 10 - 1no. 5) Elastic washer - 4 nos. 6) O ring - 1no. 7) O ring - 1 no. 8) O ring - 1no 9) O ring - 2nos. 10) HT spring washer M-6 11) HT spring washer M-8 - 2nos. 12) Spring washer M-10 - 4 nos. 13) Socket heads plug - 3nos. 14) Elastic washer M-12 -8 nos.	B2	x	✓	x
42	25718095	AOH replacement kit (4300007100/30) for single bottle VCB of M/s. AAL type VCBA -25.10 Tr.1Kit of Filter cartridgePart No.SG-300140-R 0001--1 Set.1.1Filter element (40 ?m) - Pt.No.4300014000 1 No.1.2'O' ring -Part No.69.211.215--1 No.2Ring type joint. Part No.HSBA 432577P0001---1 No.3Kit for side cover LHS & RHS.Part No.4300007100/23--1 Set.3.1'O' ring - Part No.4306057477--2 Nos. 3.2Anti breaking screw M6 x 20Part No.SG300120 P0001 8 Nos.3.3Elastic washer M6Part No.9AVA 330-11--8 Nos.4Packing Ring Part No.SG300073P0002 1 No.5'O' ring for fixing pressure regulator assembly to reservoir.	C1	✓	x	✓



43	25718575	IOH replacement kit for single bottle VCB of M/s BTIL type: BVAC 25.10 M07 (New) No. 3EYC-400261-R1 consisting of 14 items. 1) AOH Kit part no. VOA H Drg. No. 3EYC-400260- R1 – 1set. 2) Driving Plate (Toggle mechanism) part No. 40.30, Drg. No. SG-310021-P2 – 1no. 3) Short absorber plate, Part No. 40.20, Drg. No.SG-310020-P1 – 1No. 4) Piston segment (piston Ring) Part No. 110, Drg. No.SG-310079-P1 – 1no. 5) 'O' Ring 17.86 x 2.62 (pipe side) part no. 331,Drg. No. HSBA-432095-P26 -1 no. 6) O' Ring 20.24 x 2.62 (Solenoid valve side) Drg. No. HSBA-432095-P27 -1 no. 7) Elastic washer 8.2/16.2x1.4 pt No.1071/440.12/540.10.21 Drg. 9AVA-330-12 -16 Nos. 8) Molecular Sieves in Kg (for Air drier) Part No.1300-2.7 Drg. No. 3EYC-400100-P18 – 4.0 kg (approx). 9) CAP G 3/8" (Air tank assly) part No. 530.90 Drg. No. HSBA-432531-P1 – 1 no. 10) Elastic washer 12.4/27.2 x 1.8 (HT connection) part no. 540.1002, Drg. No. 9AVA-330-6 – 2 nos. 11) Spare kit of solenoid valve (model: 3270B-16-4G), part. no.VIOH.1, Drg. No. 3EYC-400263-R1-1set. (consists of 10 items). 11.1) Body 'O' ring (Position No.20) – 2 nos. 11.2) Seat 'O' ring (Position No.19) – 2 nos. 11.3) Kolben 'O' ring (position no.18) -1no. 11.4) Inlet 'O' ring (Piston no...) – 1 no.11.5) Outer 'O' ring (Position no...) – 1 no.11.6) Ventil Teller (position no. 07) –1 no.11.7) Centil Schaft (Position no. 05) – 1 no. 11.8) Kolben (Position No.04) –1 no. 11.9) Anker assembly (Position No. 30) – 1 no. 11.10) Guide assembly (Position No. 33) – 1 no.12)HV spring ring A8- washer (for solenoid valve) part. No. 1081, Drg. No. NB -335805-P511 – 2 nos. 13) Elastic washer 8.2/18.2x1.4 (for CMDE mounting & air tank) pt No.1160, Drg.no.9AVA-330-4- 8 Nos. 14) Aux. switch Assly. (9 pole) part no. 510 Drg. No. 3EYC- 300062-R1 - 1 no	C1	X	✓	X
44	25740015	Plug coupling Stucchi as per stecker stucchi Part No. 800824603 (ABB ID No 3EHW370005R0001) for valve set of traction converter of AC three phase locomotives	C1	✓	✓	✓
45	25810054	Panto Mounting Insulator Complete as per CLW Specification No.CLW/ES/AC/1-1/H and CLW Drg.No.CLW/ES/SK-4/AC/1-1/H.	C1	Condition Based	Condition Based	Condition Based
46	25810157	Roof Line Insulator Complete with ref nos. A to D as per CLW drg no. CLW/ES/SK-4/AC/I-1/H and specification no. CLW/ES/AC/I-1/H or latest.	C1	Condition Based	Condition Based	Condition Based
47	25880056	Pantograph AM-12 complete to RDSO Spec. No. RDSO/2008/EL/Spec/0066 REV.0 dtd. 20/06/2008 & Amend no.1 dtd. 31/12/2008 or latest along with metalized carbon strips as per RDSO Drg.No. SKEL-4303 ( Rev-4 ) Metalised Carbon strips should be of RDSO approved makes only viz. M/s ACPL Guwahati for grade-MY7D, M/s.Carbonate Lorriane, Bangalore for grade-P 5696 or M/s.SCHUNK Metal, Bangalore for grade-BH-424C.	B1	Condition Based	Condition Based	Condition Based
48	25880068	Pantograph Assembly complete for High Speed AC Locos with Motor Assembly, Mechanism Assembly, Throttle valve assembly and fitted with metalized Carbon strips as per RDSO Drg. No. SKEL-4303 (Rev-6). (without Panto Mounting insulators) as per CLW Specification No. CLW/ ES/P-5, Alt.F.Metalized Carbon Strips should be of RDSO approved makes only. Viz., M/s ACPL,Guwahati (Grade-MY7D), M/s Mersen India (Carbone Lorraine)/Bangalore (Grade-P5696) or M/s SCHUNK Metal, Bangalore (Grade-BH 424 C1) Confirming to RDSO Technical Circular No. ELRS/TC/0071/2001 (Rev '0') or latest.	B1	Condition Based	Condition Based	Condition Based
49	25880706	MAIN SPRING ASSEMBLY FOR PANTOGRAPH TYPE AM-12 TO STONE INDIA Ltd's OLD Ref No.S.000228 AND NEW Ref.No.S0221117001 (CONTRANSYS PART No.C.0600) or to equivalent part no.of GSEC, OR Concept Rail Engineers confirming to CLW Specn No.CLW/ES/P-1/N.	C1	Condition Based	Condition Based	Condition Based
50	25881310	Steady Link Assembly for Pantograph type AM-12 to Stone India Ltd's ref no. S.000288 OR its equivalent of M/s. Contransys of M/s. GSE or M/s.Concept Engg.	C2	Condition Based	Condition Based	Condition Based
51	25882004	IOH Overhauling Kit for AM-12 Pantograph confirming to Spec:RDSO/2008/EL/SPEC /0066 Rev.'0' dated 20.6.2008 and Amend 1 Dtd 31.12.08. - Set consists of 30 items. (List of items is not updated in IMMS due to space problem in IMMS)	B2	X	✓	X
52	25888055	Metallised Carbon Strips for Pantographs as per RDSO Specification No.RDSO/2009/EL/ SPEC/0097 REV (0) JUNE 2009 OR RDSO Drg.No. SKEL 4303 Rev-5.Grades approved by RDSO /LKO.[1].M/s ACPL-Grade MY 7D [2].M/s Carbone Loraine (Merson India)-Grade P 5696 [3].M/s SCHUNK-Grade BH 424 C1.	A	✓	✓	✓
53	25888079	MAINTENANCE KIT FOR PANTOGRAPH CONSISTING OF 20 ITEMS. full description as per attached document.	C1	✓	✓	✓
54	25888080	BOW ASSEMBLY FOR PANTOGRAPH TYPE IR-03 H M/s.CONTRANSYS PART No. C 0H1600.	C1	✓	✓	✓
55	25888158	AOH Overhauling kit for AM-12 Pantograph. Set consists of 6 items.Set details are given below with M/s.SIL part Nos. 1) Piston packing for servo motor GSEC Drg. No. GSEC/Panto/094 Alt -1 - (SIL old ref No.S000331), (SIL new ref No 0221129100)- 1 No. 2) Rubber kit for throttle valve - 4 items each - 1 No. i) Joint For Valve-(SIL old ref No.S000354), (SIL new ref No S0220131901) ii) Piston Ring-(SIL old ref No.S000356), (SIL new ref No S0220132101) iii) Joint-(SIL old ref No.S000361), (SIL new ref No S0220132601) iv) Ring Gasket-(SIL old ref No.S000364), (SIL new ref No S0080132201) 3) Set of split pins consisting of 7 items. Sizes:- i) 5.5x50mm -(SIL new ref No S0072010560)-1 No. ii) 1.5x25mm -(SIL new ref No S0072010120)-2 Nos. iii) 2x25mm - (SIL new ref No S0072010225)-6Nos. iv) 2.5 x35mm -(SIL new ref No S0072010322)-1No. v) 3.0x30mm - (SIL new ref No S0072010100)-2Nos. vi) 3.5x45mm - (SIL new ref No S0072010440)-2 Nos. vii) 3.5x55mm -(SIL new ref No S0072010321)-4Nos - 4) Rubberized thrust pad block-(SIL old ref No S000195),(SIL new ref No S0220110201) - 2Nos. 5) Spring as per RDSO Modification sheet No. ELRS/MS/ 0333,Rev."0"- (SIL new ref No S0221138501) - 2Nos	C1	✓	X	✓
56	29010020	"Axle box Bearing CRU- 150 with grease lubrication holes and along with additional plain racer and lipped racer of each 01 No."	B1	Condition Based	Condition Based	Condition Based
57	29010044	Axle box complete without bearings as per CLW Drg No. 1209.01.111.005 Alt.2 and to CLW Spec no.CLW/MS/3/003 Alt. 3.	B2	Condition Based	Condition Based	Condition Based
58	29010068	Abutment ring as per CLW drg.no.1209-01-311-013 Alt.1 or latest (ABB.Drg.No.IB 016-00465 or latest) for WAG 9/WAP7 LOCO.	C1	Condition Based	Condition Based	Condition Based
59	29010070	Set of cover for axle box of WAP7/WAG9 locos consist of (1) Cover as per ABB Drg No- IB011-00177 or latest and CLW Drg No- 1209-01-011-011 , Alt-2 or latest (2) Cover -1 as per ABB Drg No- IB011-00179 or latest and CLW Drg No- 1209-01-011-010, Alt-2 or latest (3) Rear cover as per ABB Drg - IB011-00282 or latest and CLW drg no 1209-01-111-012, Alt-2 or latest Qty 02 nos of each.	C1	Condition Based	Condition Based	Condition Based
60	29010160	Set of Racers for step size journal, suitable for CRU 150 AXLE BOX BEARING of WAG-9/WAP-7 LOCOS CONSISTING OF THREE ITEMS.Make: NEI/Jaipur,Spec. No-1) NEI Drg No.PESD-6179, QTY:01 NO/SET.	C1	Condition Based	Condition Based	Condition Based

61	29018020	Hard Ware Items for Axle Box, set consist of 8 items. [1]. Hex Head Screw - M12X 35, P.C:8.8 Specn. IS 1364 Qty- 1 No.[2].Conical Spring Washer - 12 FST A3P DIN6796 Qty- 1 No.[3]. Hex Head Screw - M16X 45, P.C: 8.8 Class IS 1364 Qty- 6 Nos.[4] Conical Spring Washer -16 FST A3P DIN6796 Qty- 6 Nos [5] Hex Socket Head Cap Screw M20X 50, SK-12.9E IS2269 Qty- 3 Nos [6] Conical Spring washer - 20 FST A3P DIN6796 Qty- 1 No [7] Hex Socket Head Cap Serew M10X 30 SK 12.9E IS2269 - Qty 01 No [8]Conical Spring Washer -10 FST-ZN 8 CX DIN6796 Qty- 1 No	C2	✓	✓	✓
62	29018109	Set of Racers for Standard size journal of WAG9/WAP7 locos, consisting of two items – Make: M/s. SKF. 1. Plain Inner racer for SKF CRU-150 axle box bearing – SKF description – IR-GC1-0156A = 01 No./Set. 2.Lipped Inner racer for SKF CRU-150 axle box bearing-SKF description – IR-BC1-0174A = 01 No./Set. (Safety item)	C1	Condition Based	Condition Based	Condition Based
63	29018110	Set of Racers for Standard Journal Dia of WAG9 loco coinsisting of two items.Make: NEI/Jaipur [1].Plain Inner Racer RB-5080D-Qty 01 No/Set.[2].Lipped Inner Racer RB-5080D-Qty 01 No/Set	B2	Condition Based	Condition Based	Condition Based
64	29030018	Gear case Machined (MS) for WAP7/WAG9 locos as per CLW drg. No. 1209.01.013.014 Alt.7 or latest (ABB Drg. No. IB.011.00266, Rev-2 or latest).	B2	Condition Based	Condition Based	Condition Based
65	29030020	Set of cylindrical roller bearing for 3 phase TM type 6 FRA-6068 of WAP7/WAG9 locos consisting of (1) DE side bearing NU2236 C-4 as per ABB product no.3EHM620747P0256 (2) NDE side bearing NJ-320 EC-4 and Thrust collar as per ABB Product No.3EHM 620747P0340 & 3EHM620747P0341. Qty.01 No of each, Make SKF-DE:NU2236ECMRD/C4VA301 NDE:NJ320ECM/P64VA3091+HJ320EC.VA301. or FAG DE:NU2236E.801488,NDE:NJ320EMI.C4F1.J20A+HJ320EF1.	A	✓	✓	✓
66	29030043	Bearing No. 4306 ATN-9 Angular contact for oil cooling pump of M/s Flow well Samal Harand (DE side).	C1	✓	✓	✓
67	29030055	Bearing NO. 3306 ATN-9 Angular contact for oil cooling pump of M/s Plumet make (DE side).	C1	✓	✓	✓
68	29030067	Bearing 6205 C3 for machine Room Scavenger Motor	C2	✓	✓	✓
69	29030079	Bearing 6208 C3 for machine Room Blower Motor (DE side/NDE side).	C1	✓	✓	✓
70	29030080	Bearing 6206 C 3 for Traction Motor Scavenger Blower Motor (DE side/NDE side).	C1	✓	✓	✓
71	29030109	Bearing 6312 ZRC3 for M/s Landert Make Motors (DE side and NDE side) (MCP, TM BLOWER AND OCB).	C1	✓	✓	✓
72	29030213	Set of cylidrical Roller Bearing for MSU TUBE consist of (1) Non Driving end bearing as per M/s FAG bearing no.NJ1044.566185 OR M/s SKF Bearing No.NJ1044 MP C4VA 327 OR SIMILAR,Qty-01 No per set (2) Driving end bearing as per M/s FAG Bearing No.NU1964 MIA .C4 or M/s SKF/Germany-NU 1964 MA C4 VA327 or SIMILAR Qty-NO PER SET (3) Angel Ring-HJ 1044/ VA335 ( M/s-SKF) or Similar QTY 01 No per set for three phase loco.	B1	Condition Based	Condition Based	Condition Based
73	29040012	Set of imported dampers for WAP7 as per CLW Specification CLW/MS/SPEC/ELDO-Bogie/002 Nov-2013 and CLW drawing. 1209.01.215.014 Alt-1 Ref 1 to 4. Set consisting of 4 types of 20 Nos dampers. 1. Primary Axle damper - 8 Nos./ 2.Secondaryverticaldamper-4Nos./Set. 3.Secondaryhorizontaldamper-4Nos. 4. Yaw Damper - 4 Nos.	C1	✓	✓	✓
74	29040048	Secondary spring for 3 phase locos as per CLW specification No. CLW/MS/3/SPEC/ELDO- Bogie/004. Alt-1 or latest and CLW Drawing No. 1209.01.015.010 Alt-1 or latest	B2	Condition Based	Condition Based	Condition Based
75	29040073	SET OF COMPENSATING PLATE FOR 3 PH.LOCOS CONSISTING OF FOLLOWING ITEMS. 1) COMPENSATING PLATE FOR PRIMARY OUTER SPRING AS PER ABB DRG.NO.IB012-00612, REV 2 OR LATEST & 48 NOS/SET. 2) COMPENSATING PLATE FOR PRIMARY INNER SPRING AS PER ABB DRG.NO.IB012-00613, REV 2 OR LATEST. 16 NOS PER/SET. 3)COMPENSATING PLATE FOR SECONDRY SPRING AS PER ABB DRG.NO.IB012-00614, REV 2 OR LATEST. 08 NOS/SET. a)Firms may give a seprate additional quote in case latest specification/design amendment is issued by RDSO/CLW/ICF. b) PO will be released to definite description.	C1	Condition Based	Condition Based	Condition Based
76	29040085	Thermoplastic Poly urethane spring pads (Happy pads) for secondary Springs of 3 Phase Locos as per Ref. No. 1 of S.C.Rly Drg.No. C/ELS/ LGD/Bogie/3/140,Alt-2	B2	✓	✓	✓
77	29040103	Set of Insulating base consisting of (1) for primary spring of end axle and mid axle for WAP7/ WAG9 locos as per ABB Drg No- IB- 016-00456 or latest and CLW Drg No-1209-01- 315-016 or latest. Qty- 24 nos (2) for primary spring of mid axle for WAP7/WAG9 locos as per ABB Drg No- IB016-00615 or latest and CLW Drg no- 1209-01-415-015 or latest, Qty-08 nos.	C1	✓	✓	✓
78	29041016	Primary Spring of End Axle for WAG9 / WAP7 locos as per CLW specification No.CLW/MS/3/ SPEC/ELDO-Bogie/004. Alt-1or latest and confirming to CLW drawing No. 1209.01.115.008 Alt-1 or latest	C1	Condition Based	Condition Based	Condition Based
79	29041028	Primary Spring Outer for middle axle of WAG9 / WAP7 locos as per CLW SpecificationNo.CLW/ MS/3/SPEC/ ELDO-Bogie/004. Alt-1 or latest and confirming to CLW drawing No.1209.01.115.009 Alt-1or latest.	C1	Condition Based	Condition Based	Condition Based
80	29041030	Primary Spring Inner for Middle Axle as per CLW Specification No. CLW/MS/3/SPEC/ELDO- Bogie/004. Alt-1 or latest and confirming to CLW Drawing No.1209.01.115.009 Alt-1 or latest.	C2	Condition Based	Condition Based	Condition Based
81	29048084	Hardware items for Primary Suspension, Setconsistsof08 items.1.Necked Down Bolt-M24x100,8.8 Class. specn.No.1209.01.315.006 qty.03 Nos. (2)Hex Head Bolt -M16x70, 8.8 class ISO4014 CLW/MS/3/084 ALT.6 -02 Nos. (3)Hex.Bolt-M24x300, 8.8 class ISO 4014- CLW/MS/3/084 Alt 6.03 Nos. (4)Hex Head Bolt-M16x50, 8.8 class ISO 4017 -CLW/MS/3/084 Alt 6 -04 Nos. (5)Helical spring washer-A16 FST-ZN8CX -ISO4017 -4 Nos. (6)Washer- 25 200HV -DIN 125 -4 Nos. (7) Hex Head Bolt-M20x250, 8.8 class ISO4014 -CLW/MS/3/084 Alt6 -3 Nos. (8)Hex Head Bolt- M20x40, 8.8 class ISO4017 - CLW/MS/3/084 ALT6 -3 Nos.	C1	Condition Based	Condition Based	Condition Based
82	29048096	Yaw Damper for WAG9 /WAP7 locos as per CLW Spec.no.CLW/MS/3/009 Alt-3 or latest and CLW Drg.no. 1209.01.215.014 Alt-1 or latest. (ABB Article.No.IB 016-00372-004).	B1	✓	✓	✓
83	29048163	Primary Axle Damper for WAG9 /WAP7 locos as per CLW Spec. no.CLW/MS/3/009 Alt-3 or latest and CLW Drg.no. 1209.01.215.014 Alt-1 or latest. (ABB Article.No.IB 016-00372-001).	B1	✓	✓	✓
84	29048175	Secondary Vertical Damper for WAG9 /WAP7 locos as per CLW Spec. no.CLW/MS/3/009 Alt-3 or latest and CLW Drg.no. 1209.01.215.014 Alt-1 or latest. (ABB Article.No.IB 016-00372-002 or latest).	B2	✓	✓	✓

85	29048187	Secondary Horizontal Damper for WAG9 /WAP7 locos as per CLW Spec. no.CLW/MS/3/009 Alt-3 or latest and CLW Drg.no. 1209.01.215.014 Alt-1 or latest. ABB Article.No.IB 016-00372-003 or latest).	B1	✓	✓	✓
86	29048217	Set of Hardware items for Secondary Suspension of WAG-9/WAP-7 locos. Set of consists of 7 items with Zinc coating 1) Socket Head Screw-M 12x25 mm as per IS 6761/1994 & 12-9 PC - 4 Nos. 2) Hex Head screw M12x 20mm IS: 1364/1367 & 8.8 PC-4 nos 3) Hex. head screw M16x60mm IS: 1364/1367 & 8.8 PC - 4 nos. 4) Hex. Head screw M20x60mm IS 1364/1367 & 8.8 PC - 8 Nos. 5) Hex. head screw M20x80mm IS 1364/1367 & 8.8 PC 8 nos. 6) Washers D-16 IS--2016 -8 nos. 7) Washers D-20 IS 2016 - 8 nos	C1	Condition Based	Condition Based	Condition Based
87	29050066	Set of Labyrinth Ring for Nose suspended drive (MSU tube) of WAP7/ WAG9 consists of following 10 items, Qty 01 No. FULL DESCRIPTION AS PER ATTACHED DOCUMENT. 1)Labyrinth Ring as per CLW Drg. No. 1209.01.211.034 Alt.1 and ABB Drg. No. IB016-00439 Rev.3.qty/set=01 no. 2) Labyrinth Ring as per CLW Drg. No. 1209.01.211.031 Alt.nil and ABB Drg. No. IB016-00426. qty/set=01 no. 3) Labyrinth Ring as per CLW Drg. No. 1209. 01.211.032 Alt.nil and ABB Drg. No. IB016-00427. qty/set=01 no. 4) Labyrinth Ring as per CLW Drg. No. 1209. 01.211.030 Alt.nil and ABB Drg. No. IB016-00425. qty/set=01 no. 5) Labyrinth Ring as per CLW Drg. No. 1209. 01.211.029 Alt.nil and ABB Drg. No. IB016-00424. qty/set=01 no. 6) Labyrinth Ring as per CLW Drg. No. 1209. 01.211.035 Alt.nil and ABB Drg. No. IB016-00430. qty/set=01 no. 7) Labyrinth Ring as per CLW Drg. No. 1209. 01.211.033 Alt.nil and ABB Drg. No. IB016-00428. qty/set=01 no. 8) Labyrinth Ring as per CLW Drg. No. 1209. 01.211.027 Alt.nil and ABB Drg. No. IB016-00422 qty/set=01 no. 9) Labyrinth Ring as per CLW Drg. No. 1209. 01.211.028 Alt.1 and ABB Drg. No. IB016-00423 Rev.3 qty/set=01 no. 10) Supporting Ring as per CLW Drg.No. 1209.01.211.036 Alt-1. qty/set=01No	B2	✓	✓	✓
88	29070016	Set of Sand pipe Arrangement (RH) & (LH) for WAP 7/WAG 9 locos as per ABB Drg. No. IB.011.00510 & IB 011-00509 or latest respectively. Qty.01 No of each .	C1	✓	✓	✓
89	29070065	Set of spares for Modified Sand pipe Assembly for 3 Phase Locomotives. Set consists of 03 items. 1) sander nozzle as per Drg.No.C/ELS/LGD/Bogie/4/158. Set consists of 02 items.i)Nozzle (thread pitch 1.5 mm) Ref.1-01 No./set. ii) Nozzle (thread pitch 2.5 mm) Ref.2-01 No./ set. 2) Set of spares for Modified Sand pipe Assembly, as per Drg.No.C/ELS/LGD/ EX.FTG/3/20, Alt-1, set consists of 07 items.i)Support Angular, Ref.1-01No./set ii)Support steel Flat,Ref.2-01No./set iii)Delivery adopter, Ref.3-01No./set iv)Hex.Head Bolt, Ref.4-02No./set v)Hex. nut, Ref.5-02No./set vi)Spring washer, Ref.6-04No./set vii)Flat washer, Ref.7-04No./set 3) Sand Ejector Dummy for 3 phase locos as per Drg. No.C/ELS/LGD/Bogie/4/159	C1	✓	✓	✓
90	29100010	Elastic Ring (Aclathan Ring) as per RDSO Spec. No. RDSO/2007/EL/SPEC/0053 with rev,O June 2007 with amendment No.1 dt.03/07/10 or latest and RDSO Drg.No.SKEL.4717, Alt-3.	A	✓	✓	✓
91	29100021	Set of stop for WAG-9/WAP-7 locos as per CLW Spec. No. CLW/MS/3/010, with latest Alt. consists of 02 items 1) lateral stop as per CLW drg. no. 1209.01.315.021 Alt 1 or latest (ABB drg. no. IB016-00006 or latest)- Qty-06 Nos per set. (2) vertical stoop as per CLW Drg.no.1209.01.315.022, with latest Alt. (ABB Drg No.IB 016-00268 or latest) Qty.1. No. per set.	C1	Condition Based	Condition Based	Condition Based
92	29100057	Housing for Traction bas as per CLW Drg. 1209.01.113.002 Alt 6 and RDSO Sketch No.2009-18 of Mod No.MP mod VL.06.38.09.Rev (0.0) (with groove behind having flange)	C1	Condition Based	Condition Based	Condition Based
93	29100069	Push pull rod (Traction bar) for WAP7/WAG9 as per CLW Drg. No. 1209.01.113.006 or latest, ABB Drg. No. IB011-00191 Rev-3 or latest consist of 3 items.	B2	Condition Based	Condition Based	Condition Based
94	29100136	Set of Fixing slings for Push pull rod (traction bar) for 3 ph. Locomotives Consisting of 02 items.1.Safety sling as per S.C.Rly. Drg No- C/ELS/LGD/BOGIE/4/120. Ref.No.1.Qty 02 nos. 2.Safety sling as per S.C.Rly. Drg No- C/ELS/LGD/BOGIE/4/120. Ref.No.2-.Qty 02 nos.	C2	Condition Based	Condition Based	Condition Based
95	29100150	Holder for Traction Motor suspension as per CLW Drg. No.1209.01.118-002 .	B1	Condition Based	Condition Based	Condition Based
96	29130074	High tensile tight loco transition center buffer coupler suitable to fit pocket sized for WAP-7 & WAP-5 Electric locomotive as per RDSO Specn.No. Mp.0.41.00.05( Rev.00) july,04 and RDSO approved latest details drgs.	C1	Condition Based	Condition Based	Condition Based
97	29130268	Operating rod assembly for H Type tight lock CBC of electric locomotives as per Drg No. C/ELS/ LGD/Ex.Ftg/3/28 Alt-2 sheet no.1 of 5 ref.no.1to 4. Set consists of 04 items. 1. Operating rod long assembly. Sheet No. 2 of 5 Drg. No.C/ELS/LGD/Ex.FTG/3/28.Alt.2. Qty/set=02 Nos. 2.Operating rod short assembly. Sheet No. 3 of 5 Drg. No.C/ELS/LGD/Ex.FTG/3/28.Alt.3 Qty/ set=02 Nos. 3.Bracket assembly inner. Sheet No.4 of 5 Drg.No.C/ELS/LGD/Ex.FTG/3/28.Alt.1 Qty/set=01 set.(all the items as per the quantity specified in the drawing to be supplied) 4. Bracket assembly outer. Sheet No.5 of 5 Drg.No.C/ELS/LGD/Ex.FTG/3/28.Alt.1 Qty/set=01 set. (all the items as per the quantity specified in the drawing to be supplied)	N	✓	✓	✓
98	29140183	Set of Safety Slings with alloy steel D-Shackle for TM safety of 3 Phase locos with 1770 Grade & 6x19M construction. 1) Safety sings as per Drg. No. C/ELS/LGD/B-F/4/25- 2nos/set. 2) Safety slings as per Drg. No. C/ELS/LGD/B-F/4/26-4 nos/set. 3) Alloy steel D-Shackle with pin type bolt & nut along with suitable split pin, working load of 3.25 tonnes made from SAE 8620-6 nos/set.	C1	Condition Based	Condition Based	Condition Based
99	29140330	Set of Pins and Bushes for Brake rigging of WAP-7 locos consisting of 16 items and material shall be manganese steel as per IRS:R-65 with latest alteration as per details given. 1). Pins as per Ref. No. 27 to 38 of RDSO Drg. No. SKVL-585; Alt.2 or latest sheet 2 of 3. 2) Bushes as per Ref. No. 15 to 18 of RDSO Drawing No. SKVL-582, Alt.4 or latest sheet 1 of 2. 1). Friction arm pin, Ref. no. 27 - 8 nos. 2) Lever fulcrum pin, Ref. no. 28- 08 nos . 3) Slack adjuster pin (Bottom), Ref. no. 29 - 16 nos. 4) Hanger pin, Ref. no. 30 - 16 nos.5) Equaliser pin (Middle), Ref. no. 31 -8 nos.	B2	✓	✓	✓
100	29140420	Set of tie bar assembly for wap-7 locos. set consist of 3 items ( safety items) 1) Tie bar assembly for axle(t-type) 1&6 as per RDSO Drg No.SKVL 186.Ref.1,2,3 Qty:2 Nos/set. 2) Tie bar assembly for axle(l-type) 2&5 as per RDSO Drg.No.SKEL 4877.Ref.1,2,3 &4-Qty:02 Nos/set. 3)Tie bar assembly for axle(s-type) 3&4 as per RDSO Drg No.SKEL 4876.Ref.1,2,3 &4- Qty:2 Nos/set.	C1	Condition Based	Condition Based	Condition Based
101	29150012	Cylinder roller bearing driving end for MSU tube M/S SCHAEFFLER KG [FAG] NU1964 MIA.C4 OR M/S SKF NU 1964 MAC4VA 327 or NEI Drawing No.PESD 3454 MOD.A.	C1	Condition Based	Condition Based	Condition Based
102	29150036	Hinged cover Assembly for coupling socket assembly as per RDSO Spec No.RDSO/PE/Spec/ AC/0177(Rev " O" ) 2013 or latest suitable for vehicular coupler high capacity( 500A 750V )	N	✓	✓	✓

103	29160017	Procurement kit for 1 1/4" check valve (RS) as per FTIL Pt. No. 790002125 and D & M part No.RK AB224-T3 consist of following 05 items. Detailed specification as per attached document.	C1	✓	✓	✓
104	29160030	Kit for un-loader valve as per FTIL Pt. No. 79000 2165 and D&M pt. No. RK V23-T4 consist of 3 items 1) Valve stem assy as per FTIL pt. NO. 0021 20000 and D&M pt. no. V23-W4 qty- 1NO.2) O-ring part as per FTIL pt. no. 003703500A and D&M pt. no. 0015-36 Qty-1` No. 3) Gasket as per FTIL pt. no. 001713500 and D&M pt. No. 0016-8 qty - 01 no.	C1	✓	✓	✓
105	29160078	Maintenance kit for Drivers Brake Controller as per FTIL pt. No.790034101 and D & M pt.No.RK-AB 489-T10 Consists of following 03 items:-(1).Sealing strip -12.7 WD.X 6mm thick as per FTIL part no.025602000 and D & M part no.0112-8. Qty.1 Mtr.(2).Release valve as per FTIL part no.001608000A and D & M part no.AB11-265 Qty.1 No.(3).O- Ring as per FTIL part no.034701000A and D & M part no.0015-32 Qty.1 No.	C1	✓	✓	✓
106	29160080	Kit for driver direct brake valve FD-1 kit as per FTIL Part No. 790004105 and D&M part No. RK AB3-31 Consisting of thefollowing 6 items.i. Valve stem assembly as per FTIL part No.019101000 and D&M part No. AB 21-W 3. Qty-1 No. ii. Seal as per FTIL part No.04701000A and D&M part No.009-4 Qty-1 No iii. Diaphragm as per FTIL part No.001705000 and D&M part No. 004-7 Qty- 1 No. iv. Joint as per FTIL part No.001712500 and D&M part No. 0016-1 Qty-1 No. v.Strainer as per FTIL part No.004401500 and D&M part No.AB 3-21 qTY-1 nO. vi. O ring as per FTIL partNo.038704000A andD&M partNo.0015-291 Qty-2 no	C1	✓	✓	✓
107	29160091	Kit for Emergency exhaust Valve 1-1/4" as per FTIL Part No. 790002105 and D & M part No. RK V23-T14 consist of following 5 items:- 1. Valve stem assy. as per FTIL Part Number002120500 and D & M Part Number V 23-W6 Qty.6. 2) O-Ring as per FTIL Part Number 003702500A and D & M Part Number 0015-61 Qty.1. 3) Gasket as per FTIL Part Number 002706000 and D & M Part Number 0016-64 Qty. 1. 4) O-Ring as per FTIL Part Number 001705500A and D & M Part Number 0015-47 Qty. 1. 5) Joint as per FTIL Part Number 002706500 and D & M Part Number 0016-65 Qty.1.	C1	✓	✓	✓
108	29160108	Kit for Two way Horn valve as per FTIL part No. 790014105 and D&M part No. RK-AB441-T-15 consis of following 6 items:-1. Bellow as per FTIL Part No. 014702500 and D&M Part No.AB441-2 Qty.1, 2. O-Ring as per FTIL Part No. 01472000A and D&M Part No. 0015-9 Qty.2, 3. O-Ring as per FTIL Part No. 014701000A and D&M Part No. 0016-120 Qty.2, 4. Spring as per FTIL Part No. 014831000 and D&M Part No. 001-89 Qty.2, 5. Spring as per FTIL Part No.014832000 and D&M Part No. 002-3 Qty.1, 6. O-Ring as per FTIL Part No. 014701500A and D&M Part No.0015-3 Qty.2.	C1	✓	✓	✓
109	29160110	Kit for Auto drain valve as per FTIL part No. 790010105 and D&M part No. RK-AB-140-T7 consists of following 07 items:- 1.O-Ring as per FTIL Part No.010701500A and D&M Part No.0015/149s Qty.1,2.Spring as per FTIL Part No.010801000 and D&M Part No.001/104A Qty.1,3.Valve spindle assy. as per FTIL Part No.010101000 and D&M Part No.AB140-W3 Qty.1, 4.Joint as per FTIL Part No.010703500 and D&M Part No.0016/57 Qty.1,5.O-Ring as per FTIL Part No.010703000A and D&M Part No.0015/6 Qty.1, 6.Diaphragm as per FTIL Part No.010704000 and D&M Part No.005/8 Qty.1,7.O-Ring as per FTIL Part No.010702500A	C1	✓	✓	✓
110	29160182	Set of Kits for E-70 Brake Control Unit as per FTIL Part Number RK-AB519-T25 consists of 06 sub kits as given at overleft.	B1	✓	✓	✓
111	29160212	Kit for Breakway protection valve as per FTIL Pt. No. 790019105 and D&M part No. RKAB 776- T7 Consist of 12 items as per enclosure.	C1	✗	✓	✗
112	29160224	Kit for check valve with stainer 1/2" as per M/s. FTIL part no. 790009105 and D&M part no. RK- AB 759- W 390 consisting of the following 5 items. VITAL ITEM 1. Filter as per FTIL pt. No. 029602000 andD&M pt. no. z 1375-c-qty. 1 No. ii) Release valve as per FTIL pt. no. 001608000A & D&M pt. no. AB11-265 qty. 1 No. iii) O ring as per FTIL pt. no. 009704000A and D&M pt. No. 0015-34 qty-2 Nos iv) Joint as per FTIL pt. No. 029702000 and D&M Pt. no. 0016-96 qty 1No. v) Insert as per FTIL pt no. 029702500 A and D&M pt. no. 0012-46 qty 1 No.	C1	✓	✓	✓
113	29160236	Kit for distributor valve C3w as per FTIL part no. 790501532 consists of 56 itemsas as per attached documents.	C1	✓	✓	✓
114	29160248	Kit for EP Relay valve of as per FTIL pt. no. 790013105 and D&M part no. RK-AB914-W47 consist of 16 items as per Enclosure:	A	✓	✓	✓
115	29160285	Kit for D2 Relay Valve Comprising of 10 items M/s.FTIL part No. 790018105 and D&M part No. RK AB 42-W1. detail as per attached document.	C1	✓	✓	✓
116	29160339	Kit for Duplex check valve as per FTIL pt No. 790002145 and D&M pt No. RK-AB85-14 consist of following 04 items 1.Piston seal as per FTIL pt. no.002704500 and D & M Part No.009/85 qty -1 no .2. seal as per FTIL part no. 002704000A and D&M pt. no. 009/6. Qty-1 no.3. O-Ring as per FTIL pt. no. 002703500A and D&M pt no. 0015-163. Qty-2 nos. 4. Valve stem assembly as per FTIL pt. no. 002121500 and D&M part no. AB85-W4 Qty-1 no.	C1	✗	✓	✗
117	29160340	Set of kit for pressure control valve as er FTIL part no. 790033105 and D&M part no.RK-AB62- T11 qty 03 nos kit ( Kit no 1 and 2 having 7 items in each and kit no 3 having 13 items) as per enclosure	C1	✓	✓	✓
118	29160352	1" Check valve kit as per FTIL Pt. No. 790002115 consisting of 03 items. 1. Joint as per FTIL Pt.No.002707500 and D & M Pt. No. 0016-87 Qty.1 2. O-Ring as per FTIL Pt. NO.003703500A and D & M Pt. No. 0015-36 Qty. 2. 3. Valve stem assy. as per FTIL Pt. No. 002122000 and D & M Pt. No.AB51-W2 Qty.1.	C1	✓	✓	✓
119	29160364	Kit for Direct Brake Exhaust as per FTIL Part No. 790018115 and D & M part No. RK A 900-W91 consist of 08 items given below:- 1. Valve stem assy as per FTIL Part No. 01802000 and D&M Part No.AB17-W15 Qty.1, 2. Seal as per FTIL Part No. 018703000 and D&M Part No. 009-8 Qty.1, 3. Seal as per FTIL Part No. 002704000A and D&M Part No. 009-6 Qty.1, 4. Seal as per FTIL Part No.018703500 and D&M Part No. 009-103 Qty.1, 5. O-Ring as per FTIL Part No.003703000A and D&M Part No.0015-12 Qty.3, 6. O-Ring as per FTIL Part No.018704000A and D&M Part No.0015-189 Qty.1, 7. O-Ring as per FTIL Part No.	C1	✓	✓	✓
120	29160388	Kit for Dist Eqpt.Manifold Assy as per FTIL part No.790006115 and D&M part No.RK-AB759- W398 consist of 07 items :-1.Joint as per FTIL Part No.501710000 and D&M Part No.AB12-2 Qty.1, 2.Washer as per FTIL Part No.016701000 and D&M Part No.0018-19 Qty.2, 3.Seal as per FTIL Part No.009702500 and D&M Part No.0018-16 Qty.2, 4.O-Ring as per FTIL Part No.009702000A and D&M Part No.0015-25 Qty.3, 5.O-Ring as per FTIL Part No.00574000A and D&M Part No.0015-42 Qty.2,6.O-Ring as per FTIL Part No.013701000A and D&M Part No.0015-258 Qty.2,7.O-Ring as per FTIL Part No.006720000A and D&M Part No.0015-31 Qty.2	C1	✗	✓	✗

121	29160390	Kit for sanding equipment manifold assy as per FTIL Part No. 790006125 and D&M part No. RK- AB 759-W 404 consist of following 3 items.1.Kit for isolating cock as per FTIL Part number 790003101 and D & M Part no. RK-AB759-W291 Qty 02 nos consists of:(i) Rubber ball seat as per FTIL Part number 003701000A and D & M Part no.AB759-353 Qty. 2 (ii) O-Ring as per FTIL Part Number 003705000A and D & M Part No.0015-101 Qty. 1 (iii) O-Ring as per FTIL Part Number 001710500A and D & M Part No. 0015-13 Qty. 1. 2.O-Ring as per FTIL Part Number 006720000A and D & M Part No.0015-31 Qty.6. 3.Washer as per	C1	X	✓	X
122	29160406	Kit for pressure switch assembly as per FTIL part no. 790006131 and D&M part no. RK-AB 759- W406 consist of following 3 Nos items 1) 0-ring as per FTIL part no. 013701000A and D&M part 0015.258 qty-9. 2. Washer as per FTIL No. 016701000 and D&M 0018-19 qty-9, 3.Grommet as per FTIL pt. No. 021701000 and D&M part No. 0029-12 Qty-2	C1	X	✓	X
123	29160431	Kit for Panto Equipment Manifold as per FTIL part No. 790006135 and D and M part No. RK. AB 759-W 414 consisting of following 5 items:-1.Washer as per FTIL Part No.016701000 and D and M part no.0018-19 Qty.3.2] Seal as per FTIL Part no,009702500 and D and M part no.0018-16 Qty.1. 3] O-Ring as per FTIL Part no.009702000A and D and M PART NO,0015-25 Qty.6. 4] Kit for isolating cock as per FTIL Part no.790003101 and D and M part no. RK-AB759- W291 Qty.3 consists of(1)Rubber ball seat as per FTIL Part no.003701000A and D and M part no.AB759-353 Qty.2 (2) O-Ring as per FTIL Part no.003705000A and	C1	X	✓	X
124	29160467	Kit for manifold mounting cock as per FTIL part Number 790006151 and D&M part No. RK.AB759-W420 consists of following 04 items. 1.O- Ring as per FTIL part Number 013701000A and D&M Part No.0015-258 Qty.01. 2.O-Ring as per FTIL Part Number 006720000A and D&M Part No.0015-31 Qty.02. 3. Kit for isolating cock as per FTIL Part Number 790003101 and D&M Part No.RK-AB759-W291 Qty.01 consists (i)Rubber ball seat as per FTIL Part Number 003701000A and D&M Part No. AB759-353 Qty.02 (ii) O-Ring as per FTIL Part Number 003705000A and D & M Part No.0015-101 Qty.01.(iii) O-Ring as per FTIL Part Number	C1	X	✓	X
125	29160480	Kit Aux. Equpt./ Flange-Lub. manifold as per FTIL part No. 790006175 and D & M part No. RK- AB 759 W429 consist of following items:- 1). O-Ring as per FTIL Part No. 009702000A and D & M Part No. 015-25 Qty.6. 2) O-Ring as per FTIL Part No. 016702000A and D & M Part 0015-44 Qty.1. 3) Kit for isolating cock as per FTIL Part No. 790003101 and D & M Part No. RK-AB759- W291 Qty 04 Nos consist of (1) Rubber ball seat as per FTIL Part No.003701000A and D & M Part No.AB759-353 Qty.2.(2) O-Ring as per FTIL Part NO. 003705000A and D & M Part No. 015-101 (3) O-Ring as per FTIL Part No. 001710500A and	B2	X	✓	X
126	29160510	Kit for limiting valve as per FTIL Pt. No. 790017105 and D&M Pt. No. RK-AB578-W61 consists of 06 items. 1) Regulating valve as per FTIL Pt. No. 016103000 and D & M Pt. No. AB1-129A- Qty.1. 2. O-Ring as per FTIL Pt. No.010703000A and D & M Pt. No. 0015-6 - Qty-3. 3. 1/4" BSW Round Knob (1) as per FTIL Pt. No. 014601000 and D & M Pt. No. AB578-37 Qty.1. 4. O- Ring as per FTIL Pt. No.003703500A and D & M Pt. No. 0015-36. Qty.1. 5. Gasket as per FTIL Pt. No 017701000 and D & M Pt. No. 0016-56 Qty.1. 6. Diaphragm as per FTIL Pt. No. 001705000 and D & M Pt. No. 004-7 Qty.1.	C1	✓	✓	✓
127	29160560	2.Special M kit for Cont. reservoir retain valve as per FTIL pt. No. 790017202 consists of following 4 items.1. O-Ring as per FTIL Part Number 010703000A and D & M Part Number 0015-6 Qty.2.Nos 2.Valve Stem Assy. as per FTIL Part Number 017101000 and D & M Part Number AB 490-W8 Qty.1 No. 3.Equalising Valve support Ring as per FTIL Part Number 001605000 and D & M Part Number AB11-60.Qty.01 No. 4.Joint as per FTIL Part Number 017702000 and D & M Part Number 016-122 Qty.1 No.	C1	X	✓	X
128	29160571	Special M. kit Double check valve as per FTIL Part No.79000209 consist of following 02 items:-1) Valve as per FTIL Part No.002421000 and D & M Part No. ABB1-5, Qty-01 No. 2) Valve insert as per FTIL Part No.002701000 and D & M Part No.0012-7, Qty 02 Nos.	C1	X	✓	X
129	29160613	Overhauling kit for operating valve No.R-126 port Electromech Part no.EM/3? /PCWS/Pt-1/OHK or its equivalent in M/s Knorr-Bremse.Set consisting of 15 items in 35 nos. DETAIL AS PER ATTACHED DOCUMENT.	C1	✓	✓	✓
130	29161010	Wiper Motor Complete LH as per Knor Part No.85683/22080 and RH as per Knor Part no- 85682 /22080 or its equivalent of M/s ElectroMech or M/s ELGI. SAFETY ITEM.	C1	X	✓	X
131	29161034	Sand ejector assly,for WAG 9 /WAP7 Locomotives.as per [1].Knorr Bremse Drg.No.1-3-1880 or [2].FTIL Pt.No.031001000A or [3].Recon No.REC/ST/211 ITEM 1 to 7.	C1	X	✓	X
132	29161058	Set of Wiper arm complete (LH & RH) as per CLW Drg. No.1209-07-303-021	C1	✓	✓	✓
133	29161060	Wiper blade as per CLW Drg. No. 1209.07.303-019 or latest, ABB Drg. No IA 086-00417 Rev.3 or latest.	C1	✓	✓	✓
134	29161125	Pressure Switch 6 H3 as per FTIL part No. 021001000.	C1	Condition Based	Condition Based	Condition Based
135	29161198	Panto gauge + Adaptor as per FTIL Part Number 790022202 .	C1	Condition Based	Condition Based	Condition Based
136	29161216	Two way horn valve for E70 brake system part no.014001400.	C1	✓	✓	✓
137	29161423	Kit for limiting valve of C3W distributor manifold as per M/s FTRTIL Part No. 790017 106 D&M Part No. RK-AB578-W61. Kit consists of 07 items. Vital , PAC Item & Shelf Life One Year. 1).Regulating valve 016 125 00 AB1-129A - 1 no. 2). O- Ring 010703 000A 0015-6 - 3 nos. 3). O-Ring 0037035 00A 0015-36 - 1 no. 4). Gasket 017701000 0016-56 - 1no. 5).Diaphragm 00170500 004-7 - 1 No. 6). Regulating valve seat 017401000 B725-53 - 1 No. 7). Seal 016 7065 00A 009-63 1 no.	C1	✓	✓	✓
138	29161459	Overhauling kit for Unloaded valve (KBI part No. II97710) of Electric CCB system for three phase locomotives. Set consists of 04 items, Items as Annexure-1 ( copy enclosed). SI No Description Part No Qty. 01 Compression Spring C150925 01No 02 Piston Assembly 1175554 01No 03 O Ring C150951 01No 04 Gasket C150952 01 No	N	✓	✓	✓
139	29161575	Set of seals for E-70 VALVE of E-70 brake system( MOH) kit as per FTRTIL Part No.FT0050398- K182 Make: FTRTIL Set consist of 2 items. 1. Seal Pt.No.016702500A, Qty:01 No/set 2.Seal Pt.No.002701000A, Qty:01 No/set	C1	✓	✓	✓

140	29161848	Overhauling Kits for LRU, Control Portion; BC-787802 (BC-CP) of M/s. Knorr-Bremse CCB as per Annexure: Overhauling Kit for Control portion BC (787802) Sr. No Part No. Description Qty. / Kit 1 770825 RETAINING RING, ZINC PLATED 1 2 785961 O-RING. 2 3 787834 O-RING. 1 4 INC PLATED 1 5 787833 O-RING. 1 6 780588 RETAINING RING, INTERNAL 1 7 785953 O-RING. 1 8 785314 DIAPHRAGM. 1 9 786268 NUT, HEX JAM, ZINC PLATED 1 10 737745 SPRING, COMPRESSION 1 11 731258 RING GASKET. 6 12 739275 VALVE CHECK, WITH STEM 1 13 785938 O-RING. 1 14 743947 SPRING, COMPRESSION 1 15 735683 GASKET, COVER 1 16 775671 BALL. 1 17 785945 O-RING. 1 18 735352 RETAINING RING 1 19 785952 O-RING. 1 20 785940 O-RING. 1 21 785960 O-RING. 1 22 790467 NAMEPLATE. 1 23 770520 SCREW, DRIVE. 2 24 787831 O-RING. 1	N	✓	✓	✓
141	29161861	Overhauling kit for control portion 16 (787556-1994) of KB Make CCB System to KBI kit No: XKI/KIT/02461. of CCB system. Kit consists of 63 items. As per ANNEXURE.	N	✓	✓	✓
142	29161873	Overhauling kit for LRU, Control Portion;20-Pipe (20-CP) part Number 787775-1994 of M/s. Knorr-Bremse CCB as per Annexure ,set consists of 53 items .	N	✓	✓	✓
143	29161885	Overhauling kit for LRU, Control Portion; ER 787776-1994 (ER-CP) of M/s. Knorr-Bremse CCB as per Annexure ,set consists of 76 items	N	✓	✓	✓
144	29161897	Overhauling kit for control Portion (BP/CP) of CCB 2.0 Air Brake system part No. (787321-1994),set of consists of 60 items.	N	✓	✓	✓
145	29161903	Overhauling kit for Distributor Valve (II73835) of M/s. Knorr-Bremse CCB as per Annexure	N	✓	✓	✓
146	29161976	Overhauling kit for Drain valve (KBI Part No.182281) of Electric CCB for 3 Ph. Locomotives. One set consisting of 20 items, 30 Nos.	C1	✓	✓	✓
147	29162191	Overhauling Kit for Stop Cock (Part No.188738) of KBI Make CCB Brake system to KBI Kit No.XKI/KIT/02483.Kit consists of 14 items of 20 Nos. For Kit Details as per KBI Annexure-2	N	✓	✓	✓
148	29162233	Overhauling kit for Magnet Valve (KBIL-194900/1110) to KBI kit no XKI /KIT/02495 of Knorr- Bremse make CCB System ,set consists of 25 items for WAP-7/WAG-9 Locomotives.	N	✓	✓	✓
149	29163808	Overhauling kit for drivers back up valve to KBIL part no. 787609 of electric CCB system. Set consists of 21 items, 37 nos. as per attached ANNEXURE-A.	N	✓	✓	✓
150	29163833	Overhauling Kit for isolating Cock (II30399/II107853) as per KBIL Part No.XKI/KIT/02485 ,set consists 11 items for 3Phase Locomotive as per annexure attached.	N	✓	✓	✓
151	29163845	Overhauling kit for overflow valve (KBIL-II41349/0500) to KBI KIT No .XKI/KIT/01585 of Knorr-Bremse make CCB System for WAP-7/WAG-9 Locomotives. ,set consists of 11 items . Spec:	N	✗	✓	✗
152	29163869	Set of Overhauling kit for sander isolating Cock (KBI Part. No. I76839)to KBI part No. XKI/ KIT/01584 for electric CCB System, Set consists of 11 items,, item details as per Annexure-1 ( copy enclosed). Annexure S No Description Part No. Qty./Kit 01 Retaining Ring 457709 01 02 Retaining Ring 459035 01 03 Knorr K ring 460501 01 04 Retaining Ring 463786 01 05 O – Ring A40125/1 01 06 O –Ring B43723/2 02 07 O – Ring A91150 01 08 Sealing Ring B49360 01 09 Sealing Ring 176748 01 10 Sealing Ring B57292 01 11 Round wire netting B27807 01	N	✗	✓	✗
153	29163894	Overhauling kit for 3/2 way Cocks of SIFA/PER Cos (KBI part no. II51450/2) to KBI kit No., XKI/ KIT/01582 of Electric CCB 2.0 brake system. Set consists of 10 items, set details as per Annexure-1 (copy enclosed). Annexure S No Description Part No. Qty./Kit 01 Knorr K Ring 462575 02 02 Retaining ring 468487 02 03 Retaining ring 468488 01 04 O – Ring A47412 03 05 O- Ring A95468 01 06 Washer A1609/3 01 07 O – Ring K4140 03 08 Valve seal bushing C170298 01 09 Snap ring C101319 01 10 Retaining ring 457709 01	N	✗	✓	✗
154	29163900	Overhauling kit for pressure reducing valve (I71472/0800A/1136508/0800) of Electric CCB 2.0 brake System, KBI Kit No. XKI/KIT/02482. Set consisting of 09 items, item details as Annexure-1. (copy enclosed). Annexure S No Description Part No. Qty./Kit 01 Knorr K ring 460899 01 02 Knorr K ring 462402 01 03 Strainer A68688 01 04 O- Ring B79048 01 05 Valve head C71737/K 01 06 Thread seal STK71/14 02 07 Locking ring 466031 02 08 O –Ring B21928/K 02 09 O – Ring B43723/4 02	N	✓	✓	✓
155	29163912	Overhauling kit for Modified Exhaust Valve II103933 of EWletric CCB 2.0 Brake system as per KBI Kit No.XKI/KIT/02358. Set Consists of 07 items. Item details s per Annexure -1 ( copy enclosed). Annexure-I Set Details:- S No Description KBI part no. Qty./Set 01 O Ring OR141000 01 02 Gasket C208621 01 03 Piston C208621 01 04 O Ring C208627 01 05 Compression spring C208622 01 06 Gasket C208629 01 07 Sealing Ring A27763/13 01	N	✓	✓	✓
156	29163936	Overhauling kit for check valve as per M/s. Knorr Bremse part no. 1167897. Kit consisting of 07 items mentioned overleaf.	N	✓	✓	✓
157	29165015	Overhauling kit for overflow valve (KBIL-II41349/0500) to KBI KIT No .XKI/KIT/01585 of Knorr-Bremse make CCB System for WAP-7/WAG-9 Locomotives. ,set consists of 11 items . Spec:	N	✗	✓	✗
158	29165039	Overhauling Kit for 3/2 way cock (II53212-PANS COC) as per KBIL Part No.XKI/KIT/01586 as per Annexure attached for 3Phase Locomotive,set consists of 10 items .	N	✗	✓	✗
159	29166184	Set of Transition cone joint gasket for SCMRB and SCTMB of WAG9/WAP7 locos of M/s. SHIL make, as per IS: 658. Set consist of 2 items 1) Synthetic Rubber Gaskets for SCMRB, ID-262mm OD-300mm, PCD- 280 mm, No of holes-12 of 7mm dia thickness 3mm-02 nos. 2) Synthetic Rubber Gaskets for SCTMB,ID-315mm,OD-370mm,PCD-340mm,No of holes-12 of 9mm dia thickness 3mm- 02 nos. Spec:	C1	✓	✓	✓
160	29168120	Overhauling kit for Feed valve (KBI Part No.760533) of Knorr Bremse make CCB system to KBI Kit part No.XKI/KIT/01750. One set consisting of 17 items, 18 Nos.	C1	✓	✓	✓
161	29168156	Overhauling kit for wiper motor (RH&LH) W16/W-W-P for WAG9 loco, as per Electromech Part no.EM/37/PCWS/PT-2/OHK or its equivalent in M/s Knorr-Bremse.Set consisting of 20 items in 53 nos	B2	✓	✓	✓
162	29168181	Special M. kit - two way Horn Valve as per FTIL part No. 790014201 consist of 3 items given below. DESCRIPTION FTIL Part No. D&M part No. Qty/ set O-Ring 014702000A 0015-9 2 O- Ring 014701000A 0015-150 2 O-Ring 014701500A 0015-3 2 SAFETY & PAC ITEM M/s FTIL	C1	✓	✓	✓
163	29168193	Set of kits for E-70 Manifolds, Kit consist of 06 items. FULL DESCRIPTION AS PER ATTACHED DOCUMENT.	C1	Condition Based	Condition Based	Condition Based
164	29168200	Set of Kits for E-70 panel equipment Kit consists of 14 items. FULL DESCRIPTION AS PER ATTACHED DOCUMENT.	B2	Condition Based	Condition Based	Condition Based
165	29168211	Brake Feed Pipe Pressure switch -4 H3 as per FTIL Part Number 021001900.	C1	Condition Based	Condition Based	Condition Based
166	29168223	Parking Brake Pressure switch -5 H3 as per FTIL Part Number 021001400.	D	Condition Based	Condition Based	Condition Based
167	29168247	Operating remote control valve No.R-126 port Electromech Part no.EM/37/PCWS/Pt-1 or its equivalent in M/s Knorr-Bremse.	C1	✓	✓	✓

168	29168260	Set of pressure gauge (Non illumination type) for 3 phase locos consisting of 4 types. 1 Pressure gauge BP 1209-18-306-225 01 Nos. 2 Duplex Pressure Gauge 1209-18-306-224 01 Nos. 3 Pressure gauge FP /MR 1209-18-306-223 01 Nos. 4 Differential Gauge self Illuminated LED (Back Lit Type(Flush mounted) 1209-18-306-226 01 No.	C1	Condition Based	Condition Based	Condition Based
169	29168429	Set of base gaskets for CCB 2.0 EPCU valve of KBI make as per KBI part nos.. Sett consists of 04 items. Set details and part nos are as per annexure ( copy enclosed). Annexure KBI ANNEXURE SET OF SPARES FOR ELECTRIC CCB SYSTEM ONE SET CONSISTING OF 04 ITEMS LED (Back Lit Type(Flush mounted) 1209-18-306-226 01 No.	N	✓	✓	✓
170	29168545	Maintenance kit for Drip cup with ADV as per FTRTIL part No. 790009115 and 790010105 and D and M part No.s. RK-AB153-T 14, RK AB140-T12 Consists of 10 items:-1] Strainer Assembly part no.009110000 D and M Pt.no.AB153-3 Qty-01.2] Hobb Seal. part no.009703500 D and M Pt.no.0018-32 QTY-02.3] Joint-part no.009703000 D and M Pt.no.0016-25 Qty-01.4] O-Ring- part no.010701500A D and M Pt.no.0015/149S-Qty-01.5] Spring-part no.010801000 D and M Pt.no.001/104A Qty-01.6] Valve spindle assembly-part no.010101000 D and M Pt.no.AB140-W3 Qty-01.7] Joint- part no.010703500 D and M Pt.no.0016/57 Qty-01.	C1	✓	✓	✓
171	29168971	Repair kit for single Tone, Low and High Tone Horn valve as per M/s FTRTIL part No.FT0050398-K208. Set consisting of 05 items. 1) Diaphragm DLW Horn-Pt.No. 090516370,qty=01 No., 2)Packing DLW Horn-Pt.09051638, qty=01No., 3) Seat Rubber outer A-Part No.090516340, qty=01 No.,4) Seat Rubber outer B-Part No.090516350,qty=01No., 5) Seal Diaphragm Part No.090451290, qty=01 No	C1	✓	✓	✓
172	29170023	LED based Driver and assistant desk illumination lamp as per CLW specn. No. CLW/ES/3/0042 alt.D. Technical Specifications : 1)Operating voltage 18 to 30 V DC, with normal voltage of 24 VDC. 2) High and low Glow Swith has to be provided. 3) The lamp unit shall have inbuilt reverse polarity, over voltage trip, spike and surge protection. 4) Mechanically the housing shall be as per CLW Spec. No. CLW/ES/3/0042. Alt.D	C1	✓	✓	✓
173	29170035	Modified driver seat and pedestal assembly as per ELS/LGD. Drg.No.C/ELS/LGD/BF/3/66	C1	✓	✓	✓
174	29170280	Set of cab Windows for WAG-9 Loco LH as per CLW Drg No.1209.09.133.005 Alt-1 Qty. 2 Nos. and RH as per CLW Drg No.1209.09.133.006 Alt-1 Qty. 2 Nos.	C1	Condition Based	Condition Based	Condition Based
175	29171131	Driver's Seat and Back Rest for WAG-9/WAP-7/WAP4/WAG7 locos as per ELS/LGD Drg. No. C/ELS/LGD/B.F/3/15.	C1	✓	✓	✓
176	29178010	Set of Lock Assemblies for WAG9, each set consists of 02 items of 10 nos 1. Inter Lock Assembly for Cab side door as per CLW Drg.no.1209.01.133.021- 04 nos/set. 2. Lock Assembly for Machine Room Door and Cab door as per CLW Drg. No.1209.01. 133.071- 06 nos/set. TO CLW Specn. No. CLW/MS/3/111/ALT-3.	C1	Condition Based	Condition Based	Condition Based
177	29188337	Overhauling Kit for MR/BP filter assembly for CCB 2.0 panel of 3 Phase Locos. Kit consists of 3 sub kits with 12 items. 1)Kit for 240 L MR/20P/MREP/AC Filter assembly (02 items), i) Filter Elements with pat No.775081, qty/set -04 Nos ii) Ring Gasket with part no.735272,qty/set -04nos 2) kit for Main reservoir Filter Assembly (05 items) i) 'O'Ring with part No.757611, qty/ set - 01no ii) Filter element with part No.775925, qty/set -01no iii) Ring Gasket with part No.745679, qty/set -02 no iv) Hex.Nut with part No.752090, qty-01no/set v) manual drain valve with part No.776651, qty/set -01no 3) Kit for BP filter assembly consists of (05 items) i) Filter element with part No.775080, qty/set-01no ii) 'O' Ring element with part No.787898, qty/ set-02no iii) Ring gasket with part No.735272, qty/set-01no iv) Filter screen with part No.775931, qty/set-01no v) 'O' ring with part No.785948, qty/set-01no	C1	✓	✓	✓
178	29208014	AOH kit for overhauling of energy cum speed recorder and Indicator unit,pulse generator and junction type LAX 2000 E2,make LAXVEN description as follows.(13 items)Recorder (E2) (Master) 1.memory compartment gasket part no.M-01-032 Qty.1.(2).Dial cover O ring part no.M-01-030 Qty.1.[3].Memory Freeze glass part NO.M-01-012 Qty.1.[4].Back light PCB part No.E20-022 Qty.1.[5].Key pad (Alpha numeric) part no.E-016-003 Qty.1. INDICATOR (E2) (SLAVE)[1].Memory compartment gasket part no.M-01-032 Qty.1[2].Dial cover O ring part no.M-01-030 Qty.1.[3].Back light PCB part no.E-20-022 Qty.1.	C1	✓	✓	✓
179	29208040	AOH Kit for Overhauling 1) ESMON Speedometers M/s AAL make, as per AAL part no.3400007500/01, Set consists of 14 items 2) Pulse Generator M/s AAL make as per part no.1900007200 Set consists of 5 items. DETAIL AS PER ATTACHED DOCUMENTS.	D	✓	✓	✓
180	29230160	Corrugated flexible ducting for machine room ventilation as per CLW Drawing No. 1209-11.344-051 Alt'1' or latest. Shelf Life one Year	C1	Condition Based	Condition Based	Condition Based
181	29232752	Hose flexible for TM Ventilation of 3 Ph. Locos as per CLW Drawing No. 1209-11.339-037 Alt'1' or latest. Shelf Life one Year.	C1	Condition Based	Condition Based	Condition Based
182	29237944	Set of PBU/TBU Hose connection, Set consists of 03 items.(Make Super Seal/Markwell /Gates) 1) Modified PBU hose connection for WAG-9/ WAP-7 locos as per SCRIy Drg. No.C/ELS/ LGD/ PnEqpt/3/40.(4 nos/Rs. 152.65/-each) 2) Modified TBU-2 hose connection for WAG-9/ WAP-7 as per SCRIy. Drg. No. C/ELS/LGD/ PnEqpt/3/38. (4 nos/Rs. 180.60/- each) 3) Modified TBU-2 hose connection for WAG-9/ WAP-7 as per SCRIy. Drg. No. C/ELS/LGD/ PnEqpt/3/39. ( 8 nos/ Rs. 214.20/ - each) Make:: Super/Markwell/Gates.	C1	✓	✓	✓
183	29238067	Hose coupling for main compressor Delivery as per ELS/LGD Drg. No. C/ELS/LGD/Pn. Eqpt./3/32.	C1	✓	✓	✓
184	29238079	Set of Hose Couplings for 3 Phase Locos, consists of 04 items. 1. Bogie rubber Hose Coupling for PBU as per SC.Rly.Drg. No.C/ELS/ LGD/Pn. Eqpt/3/33. Qty/set:06 Nos 2. Bogie rubber Hose Coupling for TBU as per SC.Rly.Drg. No.C/ELS/LGD/ pn.Eqpt/3/34. Qty/set:10 Nos 3. VCB rubber Hose Coupling as per SC.Rly.Drg.No. C/ELS/LGD/ Pn.Eqpt/3/29. Qty/set:10 Nos 4.Rubber Hose Coupling for Auxiliary Compressor as per SC.Rly.Drg.No. C/ELS/LGD/Pn.Eqpt/3/35 Qty-05 Nos.	C1	✓	✓	✓
185	29238092	Hose Coupling for Sanders as per ELS/LGD Drg.No. C/ELS/LGD/ Pn. Eqpt. /3/30.	C1	✓	✓	✓
186	29238171	Set of NW 34 Hoses for Traction converter. Set consists of 02 items. 1. Hose 1.260 Mtrs length as per ABB ID No. 3EHW 470271R 1226-qty/set - 1no. 2. Hose 0.485 Mtrs Length as per ABB ID No. 3EHW 470271R1037 - qty/set -1 no.	D	✓	✓	✓
187	29250018	Set of Gasket for Transformer Oil cooling system for 3 phase locos a per CLW Spec. No. CLW/ ES/3/0143-Alt.D or latest. Set consists of 5 items as per Annexure No.1 of Scope of supply.1) O-Ring - ABB ID No. 3EHN424150P0945, as per Fig.No. 2 of CLW/ES/3/0142, Alt.D. ID-92X6 mm Qty/Set - 20 2) O-Ring - ABB ID No. 3EHN424150 P1005, as per Fig.No. 3 V of CLW/ ES/3/0142, Alt.D. ID-98X6 mm Qty/Set - 34 3) O-Ring - ABB ID No. 3EHN424150 P1205, as per Fig.No.4 of CLW/ES/3/0142, Alt.D. ID- 120X6 mm Qty/Set - 2 4) O-Ring - ABB ID No. 3EHN424150P1405, as per Fig.No. 5 of	C1	✓	✓	✓

188	29250055	Hose for cab heater as per CLW Spec no CLW/ES/3/436 Alt-A, CLW Drg No-CLW/ES/3/ SK1/0436 or latest.	C2	✓	✓	✓
189	29250079	O Ring for axle box. size 250x3 , NVR 1872 as per ABB Drg No IB012-00750 , Rev 0 or latest for all locos .	C1	✓	✓	✓
190	29250080	Set of "O" Ring for MSU,material as per NBR 70-DIN3771(ISO3601) or latest . 1. as per ABB Drg no - IB012-00754 or latest, Size- Dia 480 mm thickness 8 mm 2. as per ABB Drg No IB012-00755 or latest size Dia 382mm thickness 8 mm, material NBR 70-DIN3771 (ISO 3601).	C1	Condition Based	Condition Based	Condition Based
191	29250109	Set of Gasket for head light dual housing and bulb as per CLW Spec. No. CLW/ES/3/0114 or latest, CLW Drg. No.CLW/ES/3/SK-1/0114. (Ref.10 &5) or latest respectively. Qty: 02 Nos for housing gasket & 4 Nos for bulb gasket.	C1	Condition Based	Condition Based	Condition Based
192	29250122	Set of gasket for main transformer, As per attached document.	C1	Condition Based	Condition Based	Condition Based
193	29250262	Rubber kit for 3 piece design 1 1/4 inch BP/FP angle cock as per Ref.7,8,&12 of S.C.Rly.Drg.No.C/ELS/LGD/Pn. Eqpt/3/54.set consists of 3 items. 1)Flange as per Ref.no.7 ,qty=02 Nos. 2)Valve seat as per Ref.No.8, Qty=02 Nos. 3) O Ring as per Ref.No.12, Qty=01 Nos.	C1	✓	✓	✓
194	29250286	Self Gripping Sealing Rubber for Roof of WAG9 loco as per CLW Drg. No.1209.18.406.89 Alt.2 and to CLW SPEC NO.CLW/MS/3/034 Alt-4 or Latest .	C1	✗	✓	✗
195	29250420	Set of Rubber Packing (Gasket) for doors & windows of 3 Phase Locos Set consisting of 9 items. 1) Modified window glass (LOG) packing (outer) Drg.No. C/ELS/LGD/RC/4/11, Alt.1 – qty inmtsr - 12 mtrs. 2) Packing for wind screen (LOG inner) of 3 phase Locos. Drg. C/ELS/LGD/ B.F/4/41, Alt.1 – qty. 12 mtrs. 3) Gasket for window outer frame of WAG9/WAP7 locos (04 nos to be supplied each of 1.75 mtrs as a single closed piece as per drg), C/ELS/LGD/RC/4/10, Alt-1 – 07 mtrs. 4) Packing for cab triangular window of 3 phase locos (inner), Drg. C/ELS/LGD/ B.F/4/39, Alt.1 – qty. 06 mtrs. 5) Packing for cab triangular window of 3 phase locos (outer). Drg. C/ELS/LGD/B.F/4/38, Alt.1 – 06 mtrs. 6) Packing for machine room door of 3 phase. Drg. C/ELS/LGD/B.F/4/38, Alt.1 – 12 mtrs. 7) Cab door packing for WAG9 locos. C/ELS/LGD/ RC/4/17, Alt.1 – 22 mtrs. 8) Packing (outer) for main door window glass of WAG9 locos. Drg.C/ELS/LGD /RC/4/13, Alt-1 – 10 mtrs. 9) Main door glass packing (inner) for WAG9 locos. Drg. C/ELS/LGD/RC/4/16, Alt-1 – 10 mtrs.	C1	✗	✓	✗
196	29250717	Set of Top and Bottom for Machine Room Blower Duct. Set consists of two items. (1) Top Gasket as per Drg. No.C/ ELS/ LGD/ RC/4/19,Alt.1- 01 No. (2) Bottom Gasket as per Drg. No.C/ ELS/LGD/RC/4/20, Alt.1-01 No.	C1	✗	✓	✗
197	29250729	Top & Bottom Rubber Gasket for traction motor cooling blower duct, as per ELS/LGD Drg. No.C/ELS/LGD/ AUX/4/61.	C1	✗	✓	✗
198	29258054	Rubber hose assembly for Panto/DJ as per ELS/LGD drg. No. C/ELS/LGD/pn.Eqpt/3/27.	C1	✗	✓	✗
199	29258066	Set of 'O' rings for Plumattaz make SR MPH as per S.C. Rly, Drg. No. C/ELS/LGD/AUX/3/33 Ref: Nos. 1 to 4 as follows.	D	✓	✓	✓
200	29258078	Set of Gaskets for MPH (converter and Transformer oil pump), Each set consists of 2 items. 1. Gaskets for SHIL make Converter oil pump (SR).consists of 5 items. 1. Terminal box nitril rubber gasket Pt.no.SH/OPC/15 Qty.1No. 2. Compression gland complete with cable gland, grommet and washer PT.no.SH/OPC/21 Qty. 1 no. 3. O ring between suction flange and guide vane Pt.no.SH/OPC/26 Qty. 1 No. 4. O ring between guide vane and shell Pt.No.SH/OPC/28 Qty. 1 No. 5. O ring between shell and delivery flange Pt.No.SH/OPC/29 qTY. 1 No. 2. Gaskets for SHIL make TFP oil pump. Consists of 4 Items.	C1	✓	✓	✓
201	29258110	MOH kit for EP Secheron Contactor type: BPS 15.15/2&BPS 30.06S. Set consists of 04 items. 1. Gasket 'K' Ring KA-80.3 Viton - Qty/set-01 no 2. Gasket 'O' Ring 73.03x3.53 Viton-Qty/set-01 no 3. Gasket 'O' Ring 15.08x2.62 Viton-Qty/set-02 nos 4. Gasket 'O' Ring 8.73 x1.78 Viton -Qty/ set-02 nos Vital & PAC Item. M/s PPC International . Noida	B2	✓	✓	✓
202	29258376	Set of Gaskets for Axle Box covers of 3 –Phase locos. Set consists of 2 type of Gaskets. 1) Gasket for earth Return Carbon Brush unit cover as per CLW Drg. No. 1209-01.411-050 (Material: KLINGER). Qty=4nos/set. 2) Gasket for Dummy/PG cover as per CLW.Drg. No. 1209-01.411-049 (Material: KLINGER SIL). Qty= 08 Nos/set.	C1	✓	✓	✓
203	29318014	All Steel Lock nut Size M20X2.5 P as per CLW Spec. No CLW/MS/3/089 Alt-1or latest for Traction link and Pivot Housing bolts of WAG9/WAP7.	C1	✓	✓	✓
204	29358000	Set of Safety washers (VS type) as per CLW Drg. No. 1209.01.411.046, Ref. No. 004, 006 & 008. Set consists of 03 items. 1) Safety washer as per CLW Drg. No. 1209.1.411.046 of size VS12 for gear cases of 3-Phase Locos. Height of washer will be maintained as per SCHNOOR STARAND with 1.65 and 2.1mm – qty/set . 252 nos. 2) Safety Washer as per CLW Drg. No.1209.1.411.046 of size VS30 for axle cap bolts of three phase locos. Tolerance on Height 2.21 mm to 2.60mm as per SCHNOOR STARAND – qty/set – 48 nos. 3) Safety washer as per CLW Drg. No. 1209.1.411.046, Ref. 008 of size VS30 for axle box xlampping plate bolts. Height shall be 2.34mm to 2.80mm	C1	✓	✓	✓
205	29380029	Cab activating key switch with additional 02 Nos of keys type No.SS-S-8-R-KABA, 3 positions: C- O- D,15 amps, 500V AC as per CLW Spec.No.C/ES/0074 with latest alteration.	B2	✗	✓	✗
206	29400016	Laminated window glass as per ELS/GMO Drg. No. TRS/GMO/M-1/003/ER ALT-1.	C1	✗	✓	✗
207	29400030	Laminated side safety (cab door) glass as per ELS/LGD drg. No. C/ELS/LGD/B.F//49, Alt.1	C1	✗	✓	✗
208	29400041	Laminated cab door glass as per GMO drg No.TRS/GMO/M-1/004/ER.SAFETY ITEM.	C1	✗	✓	✗
209	29420039	Pinion Shaft for WAP-7 Loco 20 Teeth as per RDSO Spec. No.MP.0.2800.19 (Rev-0.00) Oct'05 & RDSO drg. No. SKDP 3473 or latest (KPC Code No.6000085450).	B1	✗	✓	✗
210	29420040	Bull gear (72 teeth) for WAP-7 locos as per RDSO Spec. No. MP-0-2800.19(Rev-0.00) Oct'05 and RDSO Drg. No. SKDP 3474 Alt.2 or latest.	B2	Condition Based	Condition Based	Condition Based
211	29420052	pinion Shaft 21 teeth for WAG 9 as per RDSO Spec.No. MP-0-2800-19 (Rev-0.00) Oct-2005 and RDSO Drg. No. SKDP 3847 or latest.	B1	✗	✓	✗
212	29420064	Bull gear for WAG-9 Loco 107 teeth as per RDSO Spec.No.MP.0.2800.19 (Rev-0.00) Oct'05. and RDSO Drg. No. SKDP 3848 or latest.	B2	Condition Based	Condition Based	Condition Based
213	29440014	Impeller for oil cooling blower as per specification No. CLW/ES/3/0649 or latest, CLW dRG. nO.- CLW/ES/3/SK-1/0649 or latest.	B2	✗	✓	✗
214	29440038	Blower Scavenge for Machine Room as per CLW Spec no- CW/ES/3/0022/E or latest.	N	✗	✓	✗
215	29440051	Blower for Machine Room as per CLW Spec.No. CLW/ES/3/0020 Alt.F or latest.	N	✗	✓	✗



216	29470031	Radiator Unit (Oil cooler for Transformer/ Converter) of WAG9/WAP7 AC 3 phase Locomotive. ABB Drg. No. 3EHP590472R0001, CLW Spec. No. CLW/ES/3/0102,Alt'D' or latest	A	Condition Based	Condition Based	Condition Based
217	29470080	Crew fans (Pos no.69.7) as per CLW Spec no. CLW/ES/3/010 Alt-C or latest and CLW DRG.NO.CLW/ES/3/SK-1/0110, CLW/ES/3/SK-2/0110 AND CLW/ES/3/SK-3/0110 or latest.	C1	Condition Based	Condition Based	Condition Based
218	29478030	BUR Fan for WAG9 Locomotives. Model: 4318- 2127, 48V DC, 5Watts, 2800RPM. Make: EBM NADI or ETRI. VITAL ITEM	C1	<b>X</b>	√	<b>X</b>
219	29500011	Speed sensor assembly complete consisting of 1. Speed sensor assly. for 3 phase TM as per ABB drg. No. 3EHM-311880 Rev-F or latest 2. Speed Indicator Ring as per ABB product no-. HMMT-311427 Rev. D or latest. SAFETY ITEM	B2	Condition Based	Condition Based	Condition Based
220	29500023	Temperature sensor assembly complete for 3 phase TM as per ABB product No. 3 EHM 311882 or latest.	C1	Condition Based	Condition Based	Condition Based
221	29500035	Temperature sensor with accessories for oil circuit transformer as per CLW spec. no. CLW/ ES/3/0033 Alt-E or latest consisting of 5 items. 1) Temperature sensor - 1no. 2) Cable - 3mtrs.3) 5-pole ITT canon connector at the cable end - 1 no. 4) Mounting T-sensor - 1 no. 5) Copper washer - 1 no.	C1	Condition Based	Condition Based	Condition Based
222	29500047	Pressure sensor with accessories for oil circuit transformer as per CLW Spec. No. CLW/ ES/3/0035 Alt-D or latest consisting of 4 items. 1) Pressure sensor - 1no. 2) Cable - 2.5 mtrs. 3) 5-pole ITT canon connector at the cable end - 1no. 4) Copper washer - 1no.	C1	Condition Based	Condition Based	Condition Based
223	29500072	Pressure sensor converter oil (pos No.210.62) 4.0 Bar, 20 mA ABB document No. 3EHN 424144 R 5000, Rev C or latest.	C1	Condition Based	Condition Based	Condition Based
224	29500084	Temperature sensor converter oil (pos No.210.61) as per ABB doc.No. 3EHN424142R5000 Rev- C or latest.	D	Condition Based	Condition Based	Condition Based
225	29500114	Traction/Braking effort meter Bogie 1-2 as per CLW spec. no. CLW/ES/3/0071 or latest and ABB document no. 3 EHP590546 R 0002 or latest.	C1	<b>X</b>	√	<b>X</b>
226	29500126	Set of Voltmeters consist of 02 items. 1. Voltmeter Battery (position No.116) as per CLW Spec. No. CLW/ES/3/0073 or latest and ABB document No - 3EHP590545R0001 or latest, CLW Drg No- CLW/ES/3/SK1/0073 or latest. 2. Catenary Voltmeter (Position No.74.0) as per CLW Spec. no- CLW/ES/3/0070 Alt-Nil, or latest ABB document No- 3EHP 590546 R0001 or latest CLW Drg No- CLW/ES/3/SK-1/0070 or latest.	C1	<b>X</b>	√	<b>X</b>
227	29510028	Air Compressor (Auxiliary) Model CRC - 150 as per CLW Spec. No CLW/ES/3/0197 or Latest, for WAG9/WAP7.	C1	Condition Based	Condition Based	Condition Based
228	29510030	Maintenance kits for 2A32 OD compressor of M/s FTIL consists of following 23 items as per Enclosure	B2	√	√	√
229	29510053	TOH Kit Compressor Type RR-20100 to ELGI Part No.072403619. Each kit consisting of 26 item.	C1	√	√	√
230	29510065	Concentric valve Assembly for compressor of M/s.FTIL Part No.850101000.	B2	√	√	√
231	29510089	HP piston Assy. as per FTIL Part Number 850110000 FOR COMPRESSOR OF M/s.FTIL.	C1	Condition Based	Condition Based	Condition Based
232	29510107	Safety Valve 1/4" BSP (12.5 Bar) as per FTIL Pt. No. 024003200 for compressor of M/s.FTIL	D	Condition Based	Condition Based	Condition Based
233	29510119	Safety Valve 1/4" BSP (3.6 Bar) as per FTIL Pt. No. 024003100 for Compressor of M/s.FTIL	C1	Condition Based	Condition Based	Condition Based
234	29530015	Oil Pump Converter as per CLW Spec no- CLW/ES/3/0107 Alt E or latest, ABB Drg. No.3EHP58585770R0003 or latest.	C1	Condition Based	Condition Based	Condition Based
235	29530027	Oil Pump Transformer as per CLW Spec no- CLW/ES/3/0106. OR latest or ABB Drg.No. HBTB585513R2761 or latest.	C1	Condition Based	Condition Based	Condition Based
236	29530167	Set of o rings for M/s flowwell make converter oil pump of model no. 1575 of 3 phase locos set consists of 2 items 1) Teflon o ring of OD 233 x ID 224 x 4mm - 2 nos.2 ) Nitrite o ring of OD 85xID75x ID75x5mm - 01 no	C1	√	√	√
237	29610023	Head light lamp 200W, 110V DC as per spec. no. CLW/ES/0114/Alt.A or latest. CLW drg. no. CLW/ES/3/SK-1/00114 A or latest (ABB drg. no. 156.01709 & 156.01710 or latest.	B2	√	√	√
238	29610163	Radial fan 12V DC 460 MA & 5.5 Watt for fire detection unit as per EBM papst make type RL 90-18/12 N or Trolex India Pvt. Ltd. Part No.P.16340.50 or Siemens part No. 23100.0023100.00	C1	<b>X</b>	√	<b>X</b>
239	29610461	FL Lamp drivers cab lighting complete 110 V DC,18 Watts for 3 phase locos as per CLW Specn No.CLW/ES/3/0041 or ABB ID No 3EP590065R1117 .	C1	√	√	√
240	29618058	Contactor type: C163 C/110ET 80A for Head Light, Baby Compressor and Gate unit power supply. As per Schaltbau Pt. No. 1-1620-251413. Spec. No. CLW/ES/3/0034 B or latest. SAFETY ITEM	B2	<b>X</b>	√	<b>X</b>
241	29618174	Headlight housing (dual) complete without Head light lamp as per CLW spec. No. CLW/ ES/3/0114/A for WA-9/WAP-7 locos	C1	Condition Based	Condition Based	Condition Based
242	29628039	Set of items for axle box brush holder Primary return current. Set consists of 3 items. 1) Spring clip (Pressure device) for Axle box carbon brush of 3 Phase locos as per Ref.2 of sheet No. 8 of CLW Spec. No.CLW/ES/3/0017, Alt-C or latest -12 nos. 2) Insulating bush small for earth return brush with brush holder assly., as per CLW Spec. No. CLW/ES/3/0017 Ref. item No. 03 of sheet No.08, Alt.C or latest - 40 nos. 3) Insulating bush large for earth return brush with brush holder assly., CLW Spec. No. CLW/ES/3/0017 Ref. item. No.04 of sheet No. 08, Alt-C or latest - 40 nos.	C1	<b>X</b>	√	<b>X</b>
243	29640039	Maximum current relay complete assembly (DI-MCR) with mechanical interlocking arrangements for use in 3 Phase locomotives as per CLW specification No. CLW/ES/3/0059 Alt"B" or latest	C2	Condition Based	Condition Based	Condition Based
244	29650021	Set of resistor according to scope of supply and Qty of CLW spec. No CLW/ES/3/0014, Alt.C or latest consist of 13 items (POS No. 6.11,8.61,8.62,78.1, 90.3, 90.4, 332.3,219.1,381.71,90.61,90.62, 90.7, 37.1 AND 219.1 AND ABB DOCUMENT NO.NBT300210P0087 NBT 300210P0079, NBT300209P0063 NBT300210P0081, NBT300207P0097, NBT300210P0041, NBT300213P0001, NBT300209P0013 OR LATEST.	D	Condition Based	Condition Based	Condition Based
245	29650057	Discharging resistor to capacitor harmonic filter (POS No.8.42), 28 ohm +/- 5% - 2800 Volt as per CLW Specn. No. CLW/ES/3/0089 or latest and ABB doc. No. 3EHP590470R0004 or latest.	C1	Condition Based	Condition Based	Condition Based
246	29650082	Flat wire Resistor for input filter Aux. converter (Pos no 49.2) 22 OHM +/-10% - 80 W-90x30x10MM as per ABB Document - HIET402702P1029 or latest & CLW Spec NO CLW/ ES/3/0464 Alt-A or latest.	C1	Condition Based	Condition Based	Condition Based
247	29658019	Set of Resistance Elements for the Temperature sensor of 3 Ph. Tr. Motor of type: 6FRA 6068. As per ABB doc.No.3EHM311882, Alt-3. Set consists of 2 Nos. of resistance elements.	C1	Condition Based	Condition Based	Condition Based

248	29660014	Earth fault relay (current relay) type BVW 2800/110V, 150mA, 43 ohms as per CLW Spec. No. CLW/ES/3/0090 Alt.B or latest.	C1	Condition Based	Condition Based	Condition Based
249	29660026	Minimum Voltage Relay (Position No. 86) as per CLW spec. No. CLW/ES/3/0060 Alt-A or latest and ABB doc.No. 3 EHP 585821 R 0202 or latest.	D	Condition Based	Condition Based	Condition Based
250	29660038	Set of LEM.Switzerland make DC Link Voltage Sensor type - CV4-4000.SP/I of traction converters of 3 phase locos. Each set consisting of 3 Nos of voltage sensors for one traction converter.	D	Condition Based	Condition Based	Condition Based
251	29660051	Set of Contactor for Time relay of MR blower(Pos no 54.2) type- LP1-D12008FW 12A/25A-750-4P-SOOS-110V, ABB document No-HBDBT585683R4227 or latest and Time delay module for MR blower (Pos no 54.2) type- LA4 DT 2U 1,5..30 S-24... 250V ABB document No-3EHP590028R0003 or latest - each 2 Nos.	C2	Condition Based	Condition Based	Condition Based
252	29660075	Relay for control Electronic OFF/ Safety relay control electronics ON / relay Temp control Electronics (Pos no 126.5, 126.6 , 211) type-CA3-DN22FW, 10 A-600 VDC-110 VCD-SOOS, ABB Document No. 3EHP585807P1207 or latest as per CLW Spec no CLW/ES/3/0066 Alt-A or latest.	C1	Condition Based	Condition Based	Condition Based
253	29660099	Contactor for Time relay VCB (Pos no 136.3) and power supply to cab and accessories (126.7) as per Para no 8 of scope of supply of CLW Spec no CLW/ES/3/0064 Alt-A or latest.	C2	Condition Based	Condition Based	Condition Based
254	29680013	Battery box complete assembly Without Batteries for 3 phase locomotives as per CLW Spec. No.CLW/MS/3/037, Alt-6 or latest	C1	Condition Based	Condition Based	Condition Based
255	29680025	Nickel Cadmium battery with 03 cells per battery with standard accessories for use in 3 Phase locomotives as per CLW specification No.CLW/ES/3/0030. Alt C or latest.	A	Condition Based	Condition Based	Condition Based
256	29688036	AA Size lithium Thionyl Chloride Cell Axial Lead 3.6V Technical Details: Operating Temperature 60 to 85 degree celcius. Dimensions: 50.3x14.65mm, Lead Dia: 0.8m, Capacity -2600mah, Continuous current - 100mA. Make Safe/Maxwell or its equivalent	C1	X	√	X
257	29690020	Pulse Transformer of GG Module as per ABB Document No.HIET 403099 R0001 or latest	C1	Condition Based	Condition Based	Condition Based
258	29690031	Primary Voltage transformer for converter (Pos no- 224.1), 200/4 volt, 420 Ohm as per ABB document. no-HIET 401147R0001 or latest.	D	Condition Based	Condition Based	Condition Based
259	29690067	Current Sensor, LEM make, model LT 1000-SI/SP 59 as per Technical data 1:5000, 1000A, 40 Ohms.	C1	Condition Based	Condition Based	Condition Based
260	29690092	Transformer Module primary voltage (Pos. No. 224.2) as per CLW Spec.No. CLW/ES/3/0083 Alt.B or latest and ABB document No. 3 EHP590547 R0001 or latest. CLW Drg. No. CLW/ES/3/ SK1/0083 Alt.B or latest.	C1	Condition Based	Condition Based	Condition Based
261	29700012	Rotary Switch for cab heater/cab fan as per CLW spec.no.CLW/ES/3/0108 or latest and ABB document no.HBTB 585580 R 5022 or latest.	C1	Condition Based	Condition Based	Condition Based
262	29700036	SPRING LOCATED SWITCH 6A-250v USED AS ZPT, BLDJ,BLHO (pos no 129,134,169,1)Type SBM-F/TOU/21/22/R-20 as per CLW Specification No. CLW/ES/3/0075 or latest and ABB document No. HBTB 585604 R 3001 or latest.	D	Condition Based	Condition Based	Condition Based
263	29700048	Switch for Head light 16A-380 V used as BLPR (Pos No 316) Type SMB-PS/7/9/S800A20 as per CLW Specification No.CLW/ES/3/0075 or latest and ABB document no. 3 EHP 585743 R 2204 or latest.	C2	Condition Based	Condition Based	Condition Based
264	29700085	Foot switch spring load for sanding vigilance and release of indep. brake (pos. No. 192.1,235, 262) as per CLW specn. no. CLW/ES/3/0032, Alt.A or latest, CLW drg. no. CLW/ES/3/sk-1/32/A or latest (ABB product no. 3 EHP585810 R0001 or latest).	C1	X	√	X
265	29700139	Push button for emergency stop (Pos no 244) as per CLW Specn.No.CLW/ES/3/077 Alt-A or latest and ABB document No- 3EHP590153 R0002 or latest CLW Drg No.CLW/ES/3/SK1/0077 or latest.	C1	X	√	X
266	29700190	Set of BL Switches, Spec. No.CLW/ES/3/0075 or latest. Set consists of 05 items. Details are given hereunder. 1)Switch 6 A-250V used as ZTEL & etc. as per CLW Specification No.CLW/ ES/3/0075 or latest and ABB document No-HBTB 585.604.R.1201 or latest.-Qty/set-02 Nos. 2) Spring loaded switch 6 A-250V used as ZPT, BLDJ, BLHO (Pos No.-129,134,169.1) type-SBM-F/ TOU/21/22/R20 as per CLW Specification No.CLW/ES/3/0075 Alt-A or latest and ABB document No-HBTB 585604 R3001 or latest.- Qty/set-02 Nos. 3) Spring loaded switch for compressor used as BLCP (POS No-172) type SBM-F/TUSO/21/22/R20 as per CLW Specification No.CLW/ ES/3/0075 Alt-A or latest and ABB document No-HBTB 5604R2001 or latest.- Qty/set-02 Nos. 4) Switch for head light16 A-380V used as BLPR (POS No-316) type SBM-PS/7/9 / S800A24 as per CLW Specification No.CLW/ES/3/0075 Alt-A or latest and ABB document No-3EHP 585743 R2204 or latest.- Qty/set-01 Nos. 5) Switch for head light intensity used as ZPRD (POS No-317) type SBM-PS/0/3 S800A20 as per CLW Specification No.CLW/ES/3/0075 Alt-A or latest and ABB document No-3EHP 585743 R2103 or latest.- Qty/set-01 Nos.	C1	X	√	X
267	29700218	Set of Illuminated Push button switches for 3 phase locos as per CLW Spec. No. CLW/ ES/3/0072/D. Set Consisting of 6 items. 1) Illuminated pushbutton constant speed control, Spec. no. Green Black/Bezel standard - 1 no. 2) Illuminated pushbutton fault indication, Spec. no. Yellow - LED 380 VAC - standard - 1 no. 3) Pushbutton vigilance control Spec. no. Green Black Bezel standard - 1 no. 4) Pushbutton reset vigilance control, spec. no. Yellow Black Bezel - 1 no. 5) Illuminated pushbutton parking brake, Red - 1 no. 6) Illuminated Switch emergency flash lights, 2 positions Yellow - 1 no.	C1	X	√	X
268	29708023	Set of rotary switch as per CLW Spec.No.CLW/ES/3/0068 or latest consist of 03 items. [1].Failure mode operation ABB document No.-HBTB585580R1032 or latest. 2. Bogie cut out switch ABB document No. HBTB585580R1022 or latest. 3. Vigilance device cut off switch ABB document No. HBTB585580R0034 or latest. Qty-01 no each.	C1	X	√	X
269	29708205	Micro switch complete for Manifold mounted isolating cock for E-70 Brake panel for 3 Phase Locos as per M/s FTRTIL part No.003110500 and Drg.no.AB900-W96	C1	X	√	X
270	29708229	Snap action switch Type: S840r20 of M/s. Schaltbau Make for BL switches (BLD),ZPT & etc.)	C1	X	√	X
271	29710017	Circuit breaker main compressor, type-16 as per CLW Specn.No. CLW/ES/3/0096 Alt-F or latest and ABB Product no- 3EH-113456R0001 or latest.	C1	X	√	X
272	29710029	Circuit Breaker for Convertor oil pump, type-15 as per CLW Specn.No.CLW/ES/3/0096 ALT-F or latest.	C1	X	√	X
273	29710091	Circuit breaker D.C. supply rating 6A,250V DC, 1 pole as per CLW spec. No. CLW/ES/3/0037 Alt.B or latest and ABB document No. HBTB 585555 R 1013 or latest.	C1	X	√	X
274	29710108	Circuit breaker DC supply, Rating - 20 A, 250 V DC, 1 pole as per CLW Spec. no. CLW/ ES/3/0037 Alt. A or latest and ABB document No- HBTB585555R1043 or latest.	C1	X	√	X
275	29710121	Circuit breaker DC supply, Rating - 16 A, 250 V DC, 1 pole as per CLW Spec No. CLW/ ES/3/0037 Alt. A or latest and ABB doc.No- HBTB585555R1033 or latest.	C2	X	√	X

276	29710133	Accessories for Circuit Breaker Auxiliary Compressor, type-HKSS,2 No.as per CLW Spec.No. CLW/ES/3/0037 Alt. B or latest and ABB document No.-HBTB 585557R1200 or latest.	C1	X	✓	X
277	29710145	Circuit breaker for Traction Motor blower and oil cooling unit (POS No. 53.1.59.1) type 4 as per CLW spec. No. CLW/ES/3/0096 Alt.D or latest and ABB Document No. HBTB 585554 R 3083 or latest.	C1	X	✓	X
278	29710157	Circuit breaker for Machine Room Blower (Pos no 54.1) type -19 as per CLW Spec No- CLW/ ES/3/0096 Alt-D or latest and ABB Document No- 3EHP 590639 R0101or latest. VITAL ITEM	C2	X	✓	X
279	29710169	Circuit breaker Scavenger blower TM ( Pos no- 55.1) type- 18 as per CLW Spec No- CLW/ ES/3/0096 Alt-F or latest and ABB Document No- HBTB 585552R3013 or latest.	C1	X	✓	X
280	29710170	Circuit breaker scavenger blower Mr,cab ventilation and crew fan (pos No.56.1,69.61,69.71) Type.5 as per CLW spec.No.CLW/ES/3/0096 Alt.D or latest ABB document No.HBTB 585552R 1013 or latest.	C1	X	✓	X
281	29710182	Circuit breaker oil pump transformer (Pos no 62.1) type-14 as per CLW spec No CLW/ ES/3/0096 Alt-F or latest and ABB Document No- HBTB 585552R3033 or latest.	C1	X	✓	X
282	29710194	Circuit breaker cab heater (Pos no 69.62) as per CLW spec No- CLW/ES/3/0096 Alt- D or latest and ABB document NO- HBTB585552R1033 or latest. VITAL ITEM	C2	X	✓	X
283	29710200	Circuit breaker battery charger input (Pos no 100) type -Qx3AH8569 -20A, 20 A-690 V AC-3 POLE ABB Document No- HBTB585552R3043 or latest.	C1	X	✓	X
284	29710212	Circuit breaker output battery changer , Battery and control circuit (Pos no 110, 112, 112.1) type- 8 , CLW spec No- CLW/ES/03/0050 Alt- A or latest and ABB Document No- HBTB 585501R4371 or latest.	C1	X	✓	X
285	29718260	AOH Replacement Kit for single bottle VCB of M/s BTIL make, Type: BVAC 25.10M07(New) No. 3EYC-400260-R1 consists of 06 items Part No. VAOH	C1	✓	✓	✓
286	29720126	Printed Circuit Board Type: PPB 622 B01as per ABB document No : 3 EHL 409055 R0001 or latest.	C1	X	✓	X
287	29720242	Printed Circuit Board Type: PPB 471 A 02 , ABB document No : 3 EHL 400099 R 0002or latest.	C1	X	✓	X
288	29720278	Power supply card KUB 921 A01 as per ABB part No. 3EHL402063R001 or latest.	B2	X	✓	X
289	29720333	EPROM TP 28F010 - 120 make Intel or similar for 3 phase locomotive.	D	X	✓	X
290	29730028	Expansion tank for main transformer ABB Document No - HSTN-310675 or latest.	D	Condition Based	Condition Based	Condition Based
291	29730041	Breather Assy. for Transformer type LOT 6500/7500 as per ABB document No-HSTN 422029P001.	C1	Condition Based	Condition Based	Condition Based
292	29730053	Oil level indicator of Transformer as per ABB Doc. No. HSTN 420277P0015 or latest.	C1	Condition Based	Condition Based	Condition Based
293	29730065	Primary voltage transformer (Pos No 3), 25KV/200 V-50 HZ-30 VA, ABB Doc. NO-. 3EHP585856R0001 or latest. (CLW spec No- CLW/ES/3/ 0009 Alt- A or latest) CLW drg No- CLW/ES/3/SK1/00091 Alt- A or latest.	C1	Condition Based	Condition Based	Condition Based
294	29730144	Breather assembly for traction Converter as per ABB partr No. 3EHN410115R0001 & ABB ID No. HSTN 422090 Type. EM2MB	C1	Condition Based	Condition Based	Condition Based
295	29738052	Set of Quick Coupling for main transformer of 3 Ph. Locomotives as per CLW Specification No. CLW/ES/3/0456, Alt-E and confirming to CLW Drawing No. CLW/ES/3/SK-4/0456, Alt-C consisting of the following two items. 1) Male coupling as per ABB ID No. HSTN 422023P003.- Qty. 01 No. 2) Female coupling as per ABB ID No. HSTN 422023P0013.-	C1	Condition Based	Condition Based	Condition Based
296	29740046	Machine Room Blower with motor as per CLW Spec no- CLW/ES/3/0020 Alt-F or latest or ABB No 3EHP590467R001 or latest.	C1	Condition Based	Condition Based	Condition Based
297	29740058	30 KW Motor for oil cooling unit (Centrifugal design) for 3 phase locomotives confirming to RDSO Specification No. E-10/3/09 (motor) with amendment No.1 to 5 and as per CLW specification No.CLW/ES/3/0647, Alt 'A' (With Corona resistant wire)	C1	Condition Based	Condition Based	Condition Based
298	29740060	Motor for Scavage Blower TM as per CLW spec No- CLW/ES/3/0021 Alt-G or latest or ABB No 3GYN490209 or latest VITAL ITEM.	C1	Condition Based	Condition Based	Condition Based
299	29740071	Motor for Scavage Blower (MR) as per CLW spec No- CLW/ES/3/0022 Alt-E or latest or ABB No 3GYN490104 or latest VITAL ITEM	C1	Condition Based	Condition Based	Condition Based
300	29740083	Blower for Traction Motor as per CLW Spec.No.CLW/ES/3/0019/D or latest, with Motor for Traction Motor Blower as per CLW Spec.No.CLW/ES/3/0019 or latest.	N	Condition Based	Condition Based	Condition Based
301	29748010	Set of knife contactors male & female for GG and WRE modules for WAG9 and WAP7 locos as per ID No.Male: HIET 310034R1 -01 No.,Female:HIET 310037R1 -01 No.	C1	Condition Based	Condition Based	Condition Based
302	29750027	Snubber circuit as per CLW spec. No. CLW/ES/3/0067 Alt. A or latest and ABB doc. No - 3EHW470024R0005 or latest used in contactors (3 phase, 415 V and 110 V DC control supply).	C1	X	✓	X
303	29750039	Set of DC/DC converter (24V & 48 V) (Pos no- 118.5 & 118.4) as per CLW specn. No.CLW/ ES/3/0054 Alt-A or latest consisting of one each of 110V/24 Volts & 110V/48 Volts ABB document No- 3EHP590001R0100 & 3EHP590001R0090 or latest.	C1	Condition Based	Condition Based	Condition Based
304	29750052	Surge arrester (Pos No-9) as per CLW Specn.No.CLW/ES/3/0016 OR latest and as per ABB Document :- HATW 205558R0033 or latest CLW Drg No-CLW/ES/3/SK1/0016 or latest and CLW/ES/3/SK2/0016 or latest. SAFETY ITEM	C1	Condition Based	Condition Based	Condition Based
305	29750064	Snubber cicuit varister (Pos no 52.5A, 52.A) AO VDR as per ABB Document No- 3EHE428099P001 or latest as CLW Spec No CLW/ ES/3/0202 Alt A or latest. CLW Drg No- CLW/ ES/3/Sk1/202 or latest VITAL ITEM.	C2	X	✓	X
306	29750076	Set of spares for high capacity (500A 750V) Inter Vehicular coupler for HOG locos as per RDSO Specification No. RDSO/PEI SPEC / AC / 0177 (REV-O)- 2013 Set consist of two items.1.Ratchet Arrangement for coupling socket assembly Qty.01 No. /Set. 2.Coupling socket housing assembly Qty'01 No' /Set	C1	✓	✓	✓
307	29750090	Set of Female assembly connector suitable for high capacity (500A 750V) inter vehicular coupler for HOG locos as per RDSO Spec. No. RDSO/PEI SPEC/AC/0777(REV-0)-213 set consist of two items.1. Connector female assembly for control Qty.01 No./Set.2. Connector female assembly for P.N.E Qty.02 Nos./Set	C1	✓	✓	✓
308	29770040	BUP Capacitor Assy CZ12.01 for Aux.Converter as per ABB document No. HIET 431054R 0001 or latest.	C1	X	✓	X
309	29770063	Set of Capacitor for machine blower as per CLW specn. no. CLW/ES/3/0097 Alt-C or latest and ABB doc. No 3EHP585811P0002 or latest consisting of two items (1) Start up capacitor 47 mfd +/- 10% for machine blower =01 No. (2) Running capacitor 22 mfd +/- 10% for machine Room Blower =01 No.	D	X	✓	X
310	29770075	Capacitor for scavenger blower MR (Pos no -56.5), 22 MIKF-640V AC-80 Amp. or latest document No- 3EHP585811 P0002 or latest.	C1	X	✓	X

311	29770087	Capacitor input filter Auxiliary converter (Pos. No. 49.1) MKV-CAPACITOR 2000V, 0.22 µF as per ABB Document - HBTB 585402 R0821 or latest.	D	X	√	X
312	29780019	Set of fuses consisting of i) Input fuse for Auxiliary convertor (BUR), 1200V-280A, ABB document No. 3 EHE 428030 P 1280 qty. 03 Nos 2) Fuse Auxiliaries 415/110V 1000V-40A, ABB product No. HBTB 585605R1009 or latest QTY.01 No. CLW SPEC NO.CLW/ES/3/0092/C OR LATEST.	C1	√	√	√
313	29810050	Pantograph Disconnecting plus Earthing device as per CLW spec No. CLW/ES/3/0008 Alt-A or latest, CLW Drg No- CLW/ES/3/SK-1 to SK-6 /008 or latest .	C1	Condition Based	Condition Based	Condition Based
314	29810085	Set of Spares for Pantograph Type IRO3H. Set consists of 7 items. 1) CHO1360 Lock washer - 02 nos. 2) CH0600 Min spring assembly - 02 nos. 3) CH01000 - Steady Tube complete - 01 no. 4) CH01500 Upper Articulation Assembly - 01 no. 5) CH0920 Pin for Upper articulation - 03 nos. 6) CH015230 Oil Seal 1044 - 02 nos. 7) CH015270 Circlip B47 - 01 no. of M/s Contransys	B2	√	√	√
315	29810097	Set of pneumatic Horn as per FTIL Part No.790714205 consisting of 02 items 4 Nos. 1) FTIL Pt.no. 714007000 pn. Horn Low tone Qty - 02 Nos/set. 2) FTIL Pt.no. 714007100 pn. Horn High Tone Qty - 02 Nos/set.	C1	√	√	√
316	29880051	AOH Overhauling kit for AM-92 Pantograph, Set consists of 08 items 25 sub items.Spec.No. RDSO/2016/EL/SMI/0292, Rev.'O'.	D	√	√	√
317	29880063	IOH Overhauling kit for AM-92 Pantograph, Set consists of 111 items 32 sub items. No. RDSO/2016/EL/SMI/0292, Rev.'O', Dtd. 27/06/16	N	X	√	X
318	29880075	IOH kit for Pantograph type CCPL IRO3H consisting of 15 items of M/s Contransys. Detailed table to be enclosed (Table not updated here, due to Space problem)	B2	X	√	X
319	29880087	AOH Overhauling kit for pantograph type CCPL IRO3H, Set consists of 19 items.	B2	√	√	√
320	29880099	6 years replacement kit for AM-92 Pantograph type CCPL IRO3H, consists of 4 items with 4 sub Items. 1) Pedestal Assembly (i) Oil Seal 1034 Pt No. 00240 – qty/set - 2 nos. 2) Middle Articulation i) Lock Plate COH1230 – 2 nos. 3) Upper Articulation Assembly (i) Bearing 2204 COH15220 qty – 2 nos. 4) Panto pan Assembly with Metalised Carbon strip. (i) Horn with Bush COH1610 & COH1620 qty– 2nos. RDSO Spec. No. RDSO/2016/EL/SMI/0292, Rev.'O', Dt. 27/06/16.	B2	X	√	X
321	29880142	Metalized Carbon Strips suitable for high reach Pantographs with ADD Provision as per Spec. RDSO.2014/EL/Spec/0114, Rev.0, dt. May '14	B1	√	√	√
322	29880208	Set of ball bearings for AM-92 type pantograph, se consists of 05 items are given below.1.Double row self aligning ball bearing No.SKF-1208 make SKF or its equivalent RDSO approved makes, qty: 01 No. 2.Double row self aligning ball bearing No.SKF-1305 make SKF or its equivalent RDSO approved makes, Qty:01No. 3.Single row deep groove ball bearing No.SKF-6205 with C3 clearance, make SKF or its equivalent RDSO approved makes, Qty:02No. 4.Double row self aligning ball bearing No.SKF-1204 make SKF or its equivalent RDSO approved makes,Qty:02No. 5.Double row self aligning ball bearing No.SKF-1205 make SKF or its equivalent RDSO approved makes, Qty:02No.	D	X	√	X
323	29888049	KEY FOR PANTOGRAPH AIR SUPPLY ISOLATING COCK OF 3-PHASE LOCOS PNEUMATIC PANEL AS PER CLW DRG.NO.CLW/E3/3/SK-3/0049 REF.NO.10 ALT-D OR LATEST. COCK	N	Condition Based	Condition Based	Condition Based
324	29890032	Contact for Discharging Resistor Type SSA-HSM 3000V-50A-2N/O-2 N/C as per CLW Spec. No. CLW/ES/3/0088 Alt. A.	C1	X	√	X
325	29890044	Contact for auxiliaries with Auxiliaries contact block (Pos no 52 and 52.5) as CLW Spec No CLW/ES/3/0201 Alt A or latest. And as per ABB document No- 3EHE428074R0001 or latest.	C1	X	√	X
326	29890056	Contact for compressor and scavenger blower motor (Pos no 52.4 , 47.2 ) type - LP1-D8011 FW, 80/125a -750v-3POLE-110 volt DC as per ABB document no- HBTG 585683R2927 or latest and CLW Spec No- CLW/ES/3/0095/C or latest.	C1	X	√	X
327	29890068	Auxiliary contactor pantograph and VCB (Pos no 130.1, 136.4) CLW spec No CLW/ES/3/0040 Alt-A or latest, ABB Document No- HBTB 585683R1127 or latest.	C1	X	√	X
328	29898067	Contact control circuits on 110V (Min. 77V to Max.137.5V). Type: C164 C/110 ET and Schaltbau Part No.1-1622-251457. Make: Schaltbau.	B2	X	√	X
329	29898079	Set of items for M/s Secheron Contact type BPS 30.06S and BPS 15.15C/3 for AC 3 phase locos. Each consists of 1)cover 146x86x41 cylinder PAG pt. no. HBTA209677R0001-Qty-01 No/ set 2) Pipe 86x2x46 cylinder BPSST37K pt no. HAMB418220P001 qty-1no/set	C1	X	√	X
330	29940011	Modified single duct leather bellow for traction motor of WAG-9 and WAG-7 Locos as per RDSO Drg.No.SKEL4893, Alt.-"1" AAC :32 Sets. Set Consists of Type-I:02 Nos. Type-II:04 Nos.	B1	X	√	X
331	29940035	Spheri block for axle guide link/TM torque arm for WAP7/WAG9 locos,as per RDSO Spec. No. RDSO/2007/EL/SPEC/0051/Rev.O,may 2007or latest and CLW Drg.No.1209.01.215.005 or latest	A	√	√	√
332	29940096	Set of modified Labyrinth and bearing cap (DE) for WAP7/WAG9 Traction Motors type 6FRA 6068 consists of 4 items and set of Labyrinth Ring bearing cap & Clamp plate Non Driving End (NDE) for WAP7/WAG9 Traction Motors type 6FRA 6068 consists of 4 items as per RDSO/ MS/0478, dt: 30.07.2019.Full description details: A) Set of Labyrinth and bearing cap (DE) for WAP7/WAG9 Traction Motors type 6FRA 6068 as per RDSO modification sheet No. RDSO/2019/ EL/MS/0478 Rev (0) dt. 30.07.2019. AS PER CLW TO SPEC NO. 4TMS.096.0068, REV.- 2, ALT 1. 1) Outer bearing cap DE:Drg No. TWD.096.006 Alt- 7 or latest Qty. - 01 No.2) Inner labyrinth DE: Drg No. 4TWD.096.028 Alt- 6 or latest Qty. - 01 No. 3) Inner labyrinth DE: 4TWD.096.043 Alt-7 or latest Qty. - 01 No. 4) Outer Labyrinth DE: Drg no: 4TWD.096.029 Alt-7 or latest Qty. – 01 No. B) Set of Labyrinth and bearing cap (NDE) for WAP7/WAG9 Traction Motors type 6FRA 6068 as per RDSO modification sheet No. RDSO/2019/EL/MS/0478 Rev (0) dt. 30.07.2019. AS PER CLW TO SPEC NO. 4TMS.096.0068, REV.- 2, ALT 1 1) INNER LABYRINTH NDE AS PER CLW DRG. NO. 4TWD.096. 042 ALT-7, or latest QTY : 01 NO. 2) INNER LABYRINTH NDE AS PER CLW DRG. NO. 4TWD.096.031 ALT -6, or latest QTY - 01 NO. 3) BEARING CAP NDE AS PER CLW DRG. NO. 3TWD.096.032 ALT-8, or latest QTY-01 NO. 4) CLAMP PLATE NDE AS PER CLW DRG NO.2TWD.096.033 ALT-8, or latest QTY : 01 NO.	B2	X	√	X
333	29940187	Speed Probe Housing (machined) for WAP7/WAG9 Traction Motor type 6FRA 6068 as per CLW Spec.No. 4 TMS.096.068 or latest and CLW Drg.No.-1 TWD.096.077 Alt.3 or latest. ABB document No. 3EHM 11880 OR latest.	D	X	√	X
334	29941349	Hall effect Active Speed Sensor assembly suitable for IGBT 3-Phase Locos consisting of Hall effect Active Speed Sensor and cable as pr CLW No.CLW/ES/3/0528 Alt.'A', Ref.No.1&3 of scope of supply.	C1	Condition Based	Condition Based	Condition Based

335	29960046	Gasket Overhauling Kit for MOH-2 (3 yearly ) for Secheron contactor type BPS 15.15/2 & BPS 30.06S as per part No: SG.201176R00020 Secheron. Kit consists of following 07 items 1)Cover 47 x 11 - Rubber / Val ve EP(POS No.609), PU196491 P0001- 01 No. 2) Cartridge 3/2 - F - 10/Valve EP fitted with 02 Nos. of 'O' rings. (POS No.608)- PU294875 R00002- 01 No. 3) Gasket - Ring KA - 80.3- Viton(POS No.610) HSB4433239P00020 - 01 No. 4) Gasket wash 13/20 x 1 - CU ETPR(POS No.603) - NBT400289 P0023 -01 No. 5) Gasket O 73.03 x 3.53 viton(POS No.604) SC201593. - 01 No.	B2	✓	✓	✓
336	29960060	Electro Magnet coil for contactor HSM ID. No. HBTA 209869R0010 or latest.	C2	Condition Based	Condition Based	Condition Based
337	29980987	Viton Rubber Gasket for brass pston of 1 1/4" Non-return valve Escorts type as per S.C.Rly. Drg. No.B/TRS/Pn.Eqpt/216 (Sl.No.7)	D	✓	✓	✓
338	29990014	Set of contacts (fixed and mobile) for contactor BPS 15.15 C/2 for Converter and hotel load as per Secheron part No.HBTA 420418 R 0001- Set consists of 1 item in 2 numbers.	C1	✓	✓	✓
339	29990026	Micro contacts N/O for contactor HSM ABB Doc. NO.420574P0001.	D	✓	✓	✓
340	38130725	KNUCKLE FOR NON-TRANSITION CBC CONFORMING TO RDSO STR No. WD-70-BD-10 (Rev.4) TO RDSO DRG. NO. SK-62724-ALT-31, ITEM- 2.	A	✗	✓	✗
341	38130750	LOCK FOR NON-TRANSITION CBC CONFORMING TO RDSO SPEC No. WD- 70-BD-10 (Rev.4) TO RDSO DRG. NO. SK-62724-ALT-31, ITEM – 08.	A	✗	✓	✗
342	38130762	KNUCKLE THROWER CONFORMING TO RDSO SPEC WD-70-BD-10 (Rev. 4) TO RDSO DRG. NO. SK-62724-ALT-31, ITEM -09.	C1	✗	✓	✗
343	38130774	KNUCKLE PIVOT PIN WITH WASHER CONFORMING TO RDSO STR No. WD-70-BD-10 (Rev.4) TO RDSO DRG. NO. SK-62724-ALT-31, ITEM – 4.	A	✗	✓	✗
344	38134299	Coupler Body with shank wear plate for High tensile Transition CBC [BG] of AC Electric Loco as per RDSO Specification No. RDSO/STR-56-BD-07 with Amend. No. 1 of Sept. 10 and conforming to RDSO Drg.No.SK.62724 Alt.28, OR LATEST, item 18 & 10.	B1	Condition Based	Condition Based	Condition Based
345	38134482	SHANK WEAR PLATE FOR CBC, CONFORMING TO RDSO Spec No. WD-70-BD-10 (Rev.4) TO RDSO DRG. NO. SK-62724-ALT-31, ITEM-10.	B2	Condition Based	Condition Based	Condition Based
346	38136028	ARTICULATED LOCK LIFT LEVER ASSLY. & CONFORMING TO RDSO STR No.-WD-70-BD-10 (Rev-4) TO RDSO DRG. NO. SK-62724-ALT-31, ITEMS : 5,6,7,16 & 17.	A	Condition Based	Condition Based	Condition Based
347	38136041	YOKE PIN FOR TRANSITION CBC TO RDSO/STR NO.56-BD-07 TO DRG.NO.RDSO/SK.62724 ITEM-12 ALT.23.	C2	✗	✓	✗
348	38139200	MODIFIED TRANSITION SCREW COUPLING FOR CENTRE BUFFER COUPLER to RDSO DRG. NO. SK.DL-2494 ALT.17 SK.DL-2495 ALT.12. & SPECIFICATION No. MP-0.41.00.01. (REV.01) APRIL-2003.	B1	Condition Based	Condition Based	Condition Based
349	38147828	AIR BRAKE HOSE COUPLING ASSEMBLY FOR BRAKE PIPE [OF LENGTH 790 MM], CONFORMING TO APPENDIX F OF RDSO SPECN. NO. 02-ABR-02, Amendment. No.1 of FEB' 07 & AMENDMENT NO.4 OF SEPT. 2016 TO RDSO DRG NO. SK-73547 ALT.13. NOTE-THE PROTECTION CAP PROVIDED ON PALM END SIDE SHOULD BE OF THICKNESS 3.5MM TO 4 MM AND CAP SHOULD BE IN RED COLOUR. FIRM SHOULD ENSURE BEFORE SUPPLY.	A	✓	✓	✓
350	38147830	AIR BRAKE HOSE COUPLING COMPLETE FOR FEED PIPE, CONFIRMING TO APPENDIX-F OF RDSO SPEC.02-ABR-02,Amendment.No.3. TO RDSO DRG.NO.WD-81027-S-01 ALT.10.	A	✓	✓	✓
351	45158861	Retrofitment type 5W tubular LED lamp for use in existing CFL fitting of 11 W 4 pin holder TL and AC coaches with built in driver internal to the LED tube or external as per ICF spec. No. ICF/ELEC/960.	C1	✓	✓	✓
352	73320080	SET OF SPLIT PINS AND COTTER FLAT SPLITS TO USE ON 25 KV AC ELEC. LOCOS, EACH SET CONSISTS OF 6 TYPES OF PINS AS FOLLOWS: S.No. Description of the Item. Qty/Set. (1) Split cotter pin size: Hole Nom dia 6.3 mm, Nom Length 50 mm to IS:Specn. No.549/1974. 1.No. (2) Split cotter pin size: Hole Nom dia 4 mm Nom, length 50 mm to IS:Specn.No.549/1974. 2 Nos.(3) Split cotter pin size: Hole Nom dia 5 mm length 50 mm to IS:Specn.No.549/1974. 2 Nos. (4) Split cotter pin size: Hole Nom dia 3.2 mm length 50 mm to IS:Specn.No. 549/1974. 2 Nos. (5) Cotter flat split size: thick ness 6 mm, width 10 mm,	C2	✓	✓	✓
353	75613839	Flexible Poly Vinyl chloride (PVC) flooring sheet of Heterogeneous type in length of 14000 mm, width 1620 mm and thickness 2 mm, colour, shade and pattern as per RDSO approved sample No. NACFLG-02 circulated vide RDSO letter No. MC / CB / Flooring/CG-12 dated 21.01.2016 along with 2 mm dia. PVC Electrode of same shade and length conforming to RDSO specification No. RDSO/2006/CG-12 (Rev.1) Amendment No.4 of August 2018 and corrigendum-1 of June 2015.	A	✓	✓	✓
354	80010349	Gear Case Oil for application in HHP Locomotives, Servo Syngear 460 RR of M/s. IOCL or Mobil SHC 634 or of M/s. Exxon Mobil packed on 210/208 ltrs net in new, sound and non- returnable steel drums	A	✓	✓	✓
355	80011512	Shell Corena P-100 for D&M/SWIL/FTIL Compressors of 3 Ph Locomotives.	C1	✓	✓	✓
356	80011792	Transformer oil for 3 Ph.Locomotives as per IEC:60296-2003 and CLW Specification No.CLW/ES/3/0172 (Latest As per RDSO requirement)	B1	✓	✓	✓
357	80013636	Servo Gear HP-90 of M/s IOC or HP Gear oil EP-90 of M/s HPC or MAK Spirol 90 EP of M/s BPC for Axle drive Gear Box to RDSO Report No. MP.MI-15(Revision - 07), Feb 2016	C1	✓	✓	✓
358	80014975	Servo Press- 150RR of M/s IOC or Hycom-150P of M/s HPC or MAK Compressor Oil-150 of M/s. BPC for Expressor/Compressor crank case oil to RDSO. MP.MI-15 [Rev - 07] Feb 2016	B2	✓	✓	✓
359	80030051	Liplex-T2 Grease in18Kgs sealed pack of M/s. Balmer Lawrie make or Servo plex LC2 of M/s IOCL make.	C1	✓	✓	✓
360	80030142	Servoplex SHC-120 Grease for WAG9	A	✓	✓	✓
361	80031584	Shell 2858 Nerita HV modified grease for axle box bearing for 3Ph. locomotives.	A	✓	✓	✓
362	80034810	Grease for Application on Axle Box Cylindrical Roller Bearing of ALCO Diesel Locos:Servogem RR-3 (IOC)Balmerol MULTI-GREASE "LL-3" (BL&CO)/MAK RR GREASE -3 (BPC)/Lithon-RR3 (HPC) conforming to RDSO specification NO. WD-17-misc-92	A	✓	✓	✓
363	81034878	SILICA Gel Blue, size 6 to 8mm as per S.C.Rly Specn No:B/TRS/CLW/ES/S-16, Alt "A".	C1	✓	✓	✓
364	85010984	Single row deep groove Ball Bearing NO.SKF 6312 with C-3 clearance or its equivalent of RDSO approved makes.	B2	✓	✓	✓
365	85011800	SINGLE ROW DEEP GROOVE BALL BEARING TO.SKF No.-6305 2 RS C3 (IMPORTED)M OEM/ AUTHORISED DEALERS OF SKF(IMPORTED/INDIGENIOUS), FAG (IMPORTED/INDEGINIOUS), NTN(IMPORTED), NSK(IMPORTED) AND KOYO JAPAN BRANDS ONLY.	C1	✓	✓	✓

366	85011812	SINGLE ROW DEEP GROOVE BALL BEARING NO.SKF-6306 WITH C-3 CLEARANCE OR ITS EQUIVALENT MAKE OF FAG/NEI.	C1	√	√	√
367	85011850	SINGLE ROW DEEP GROOVE BALL BEARING No.SKF- 6310/Z/C3 Size: 50 mm borex 110 mm OSDx 27mm width	C1	√	√	√
368	85151269	Cylindrical roller bearing complete (NDE) for MSU of 3 phase locos. NDE Bearing of M/s. SKF No.NJ1044MP C4VA327+ HJ1044 or M/s. NEI NH1044 to NEI Drg.No. PESD 3453 Mod. B.	C1	Condition Based	Condition Based	Condition Based
369	85151506	SET OF BALL BEARINGS FOR PANTOGRAPH CONSISTING OF four TYPES AS FOLLOWS:(1) SINGLE ROW DEEP GROOVE BALL BEARING NO.SKF-6205 WITH C3 CLEARANCE SKF (IMPORTED/INDIGENEOUS) OR ITS EQUIVALENT OF FAG(IMPORTED) OR NBC BRAND OF M/s NEI.-2 Nos. 2) DOUBLE ROW SELF ALIGNING BALL BEARING NO.SKF.1305 SKF(IMPORTED/ INDIGENEOUS) OR ITS EQUIVALENT OF FAG(IMPORTED) OR NBC BRAND OF M/s NEI- QTY. 2 NOS. (3)SINGLE ROW DEEP GROOVE BALL BEARING WITH TWO SEALS TO NO. SKF-6302-2RSI SKF (IMPORTED/INDIGENEOUS)OR ITS EQUIVALENT OF FAG (IMPORTED) OR NBC BRAND OF M/S.NEI.QTY.6NOS.	C2	√	√	√
370	85989459	Set of Cylinder roller bearing for MSU tube for consist of (1) Driving End bearing as per ABB drg No-IB012-00584 or latest (2) Non Driving End bearing as per ABB Drg no-IB012-00752 or latest Qty-01 no of each.OF M/S SCHAEFFLER KG [FAG] OR SKF SCHAEFFLER KG:DE:NU1964 MIA.C4,NDE,NJ1044.566185 plus HJ1044.F55.SKF:DE:NU1964ECMAC4VA327.NDE:NJ1044MPC4VA327plusHJ1044 VA 335.	D	Condition Based	Condition Based	Condition Based

## MCI ITEM LIST FOR 3PHASE LOCOS DURING POH

SL	PL	Depot	Description	Unit
1	23250185	KPA	Cork sheet 3' X 2' X 1/8" for Locos & EMU.	no.
2	23321325	KPA	Pin for Middle articulation assly of Pantograph.	No.
3	23321386	KPA	Pin for mechanism assly.	No.
4	23350155	KPA	Machine washer 13.IS-2016-1967 Steel, Cadmium plated and passivated as per IS-1572-1986 ,Classification Fe/Cd-8. Packing and marking as per IS-2016-1967	No.
5	23352231	KPA	Spring Washer (B12 ), IS-3063-1994.Packing and marking as per IS-3063-1994.	No.
6	23652020	KPA	Air convector (Cab heater) for Locomotives.	No.
7	23880302	KPA	Rubber stop for base frame assly of Pantograph.	No.
8	23880508	KPA	Joint perfect for pedestal assly of pantograph.	No.
9	23882001	KPA	Thrust Washer A for central pedestal assly of Pantograph.	No.
10	23882876	KPA	Bi metal Washer of Pantograph.	No.
11	23883182	KPA	Support rod cylinder assly with modification as per RDSO Drg no SKEL 4682 Alt 0.	No.
12	23883601	KPA	Tight joint for motor assly of Pantograph.	No.
13	25130377	KPA	Long life Loco side buffer Assembly (Capacity 30KJ minimum) for all Locos to RDSO's Drg. No. SKDL-4748 Alt."Nil" Specn. No. MP.0.41.00.03 ( Rev.01) August 2005	No.
14	25138029	KPA	Revised Arrgt. Of Transition Screw Coupling for Centre buffer Coupler for all Locos.	No
15	25138250	KPA	Arrgt. Of H.T. Transition C.B.Coupler for all Locos except WAG9 with Uncoupling Gear.	Set
16	25138522	KPA	Modified Striker Block (Fabricated) for CB Coupler for all Locos. to CLW's Drg. No. 05/3/57/31 Alt. '4'	No.
17	25148266	KPA	Clevis with Handle for Modified Trans. Screw Coupling for all Locos.	
18	25148813	KPA	MEDIUM PHOSPOROUS (CAST IRON) BRAKE BLOCK OF SIZE 35MM THICK FOR M4/G5/G7/P4 LOCOS TO RDSO DRG NO:D/BG-1753,ALT.8,SPECIFICATION:M & C/MTD/101/2007.	No.
19	25168010	KPA	Air flow measuring valve used in locos	No.
20	25178672	KPA	Wind Screen Assly P7, G9, P5, P4	Nos.
21	25182407	KPA	Piston head disc for 8"X 8"air brake cylinder of locos ( Type UAH ).	No.
22	25188203	KPA	Maintanance kit for Bk.cly.8"x8"consist of 07 items for WAG5, WAG7 & WAP4 Locos. 1)Bk.Cly.body- 1no. 2) Spl.bolt- 4 nos. 3)Split pin dia 5x25mm-2nos. 4) Bush- 3nos. 5) Lock plate- 4nos. 6) Gasket- 2nos	Nos
23	25188872	KPA	IOH KIT OF SPARES FOR M/S. FTRTIL MAKE AIR DRYER, CONSISTING OF19 ITEMS AS PER ANNEXURE.	set
24	25188884	KPA	IOH KIT OF SPARES FOR AIR DRYER OF M/S. KNORR BREMSE MAKE CONSISTING OF 57 ITEMS, AS PER ANNEXURE.	SET
25	25188896	KPA	IOH KIT OF SPARES FOR AIR DRYER OF M/S SIL CONSISTING OF 17 ITEMS AS PER ATTACHED ANNEXURE	SET
26	25238840	KPA	High pressure rubber hose pipe with swivel nut suitable for working pressure of 20 Kg/Cm Sq. for VCB/DJ	No.
27	25238851	KPA	Flexible hose for wiper servo motor for locos.	Nos
28	25258436	KPA	Rubber kit for Air flow measuring valve used in locos.	set
29	25510095	KPA	Main Compressor 1750/1745 LPM with Motor for used in Locomotives	No.
30	25608113	KPA	Cable Head Termination Vertical take off type used in locos.	set
31	25611604	KPA	LED type marker light assly complete. One set consists of (i) White LED marker light =4nos (ii) Red LED marker light= 4nos.(iii) Alluminium front cover = 4nos.	set

SL	PL	Depot	Description	Unit
32	25617059	KPA	L.E.D based flasher light system used in locos & EMU. One set consists of 02 Nos. flasher unit and 02 Nos. control unit.	set
33	25718976	KPA	POH kit for single bottle VCB type BVAC 25.10M07 (NEW) of M/s.BTIPL consisting of 20 items as per attached annexure. Kit no.3EYC-400262-R1 (part no. VPOH)	Set
34	25718990	KPA	POH replacement kit for single bottle VCB type 22CB of M/s Schneider Electric Infrastructure Ltd. consisting of 7 items as per annexure.	Set
35	25719040	KPA	POH kit for Single bottle VCB type VCBA 25.10Tr. of M/s.AAL to Part no. 4300007100/33. consisting of 37 items as per annexure.	Set
36	25880019	KPA	IOH Kit for IR-03H type pantograph as per RDSO SMI No. RDSO/2016/EL/SMI/0292, REV. '0' dated 27.06.16 (Annexure - VI) make M/s Contransys private Ltd.	Set
37	25880329	KPA	Support Rod Cylinder Assembly for Pantograph Type IR-03H of high speed Electric	Set
38	25880380	KPA	Rubber Stopper Assembly for Pantograph Type IR03H of high speed Electric Locomot	Set
39	25881942	KPA	Throttle valve assly of Pantograph.	No.
40	25882144	KPA	Flexible shunt (Short) of Pantograph for Locos & EMUs.	Nos
41	25882156	KPA	Flexible shunt (long) of Pantograph for Locos & EMUs.	Nos
42	25888055	KPA	Metalised carbon strip for pantograph(assembled condition in one piece).	No.
43	25888080	KPA	Bow Assembly for IR-03H type pantograph make M/s Contransy Private Ltd.	Set
44	25888390	KPA	Rubber Kit for Pantograph of Locos & EMUs comprising of 06 items as per Annexure.	set
45	29010019	KPA	Spheribloc for Axle guide Rod for WAP -5 locos as per RDSO Specification No.RDSO/2007/EL/SPEC/0051/REV.3 and ABB Drg. No. IA016-00003 REV.-1.	No.
46	29010032	KPA	Axle Box Bearing for WAP-5 Loco as per ABB/CLW Drg.no.-IA016-01494 Rev-2.	
47	29030018	KPA	Gear case machined for 3-Phase Locos G9/P7	No
48	29030020	KPA	Cylinder Roller Unit CRU150 of SKF or similar for 3 Phase Loco G9/P7 as per CLW Drg. no. 1209-01..311-061.	No
49	29030031	KPA	Set of Cylindrical Roller Bearing for three phase Traction Motor Type 6FXA 7059 of WAP 5 Loco consisting of 03 items (1) DE side Bearing NU 224 C - 4 as per ABB product no 3EHM 620747 PO241 (2) NDE side Bearing NJ 219 E C/4 as per ABB product no 3EHM 620747 PO236 (3) Thrust Colour HJ 219 as per ABB product no 3EHM 620747 PO237	set
50	29030110	KPA	SET OF CYLINDRICAL ROLLER BEARING (DRIVING & NON DRIVING END)NU 1964 & NH 1044 FOR WAG9/WAP7 CLASS LOCO.MANUFACTURERS DRG. NO. (a)DE:NU 1964 MIA.C4 NDE:NJ 1044.566185 + HJ 1044. DE: NU 1964 MA.C4 VA 327 NDE:NJ 1044 MP C4VA 327 + HJ 1044 VA 335.	Set
51	29040012	KPA	Set of Damper for WAG-9 Loco.	SET
52	29040024	KPA	Set of Damper for WAP5 locos as per CLW Specn. No.-CLW/MS/10/005 Alt.1 Each set consist of (1) Axle Damper CLW Drg No 1210.01.215.014 Ref 1 Alt 1- Qty 8 Nos.(2) Horizontal Damper CLW Drg No 1210.01.215.014 Ref 4, Alt 1- Qty 4 Nos. (3) Vertical Damper CLW Drg No 1210.01.215.014 Ref 3 Alt 1- Qty 4 Nos.(4) Yaw Damper CLW Drg No 1210.01.215.014 Ref 5, Alt 1- Qty 4 Nos. (5) Motor Damper CLW Drg No 1210.01.215.014 Ref 2 Alt 1- Qty 4 Nos.	SET
53	29040048	KPA	Secondary Spring as per CLW's Drg. No. 1209-01-115-009 Alt.'1' for P7& G9 Loco. Specn. CLW/MS/3/008 Alt.'3'	No.
54	29040050	KPA	PRIMARY SUSPENSION SPRING FOR WAP5 LOCOS AS PER CLW SPEC NO.CLW/MS/3/SPEC/ELDO-BOGIE/004 Alt.1 AND CLW DRG.NO.1210.01.115.007 ALT.1	Nos.
55	29040061	KPA	SECONDARY SUSPENSION SPRING FOR WAP5 LOCOS AS PER CLW SPECN. NO.CLW/MS/3/SPEC/ELDO-BOGIE/004 Alt.1 AND CLW DRG.NO.1210.01.015.010 ALT.1	Nos.
56	29041014	KPA	PRIMARY SPRING (END AXLE) FOR P7/G9 LOCOS. SPECN. CLW's DRG.NO. 1209-01.115-008 ALT. '1' & SPECN.NO. CLW/MS/3/008 ALT. '5'.	Nos.



SL	PL	Depot	Description	Unit
57	29041028	KPA	PRIMARY SPRING (OUTER) MIDDLE AXLE FOR P7/G9 LOCOS. SPECN. CLW's DRG.NO. 1209-01.115-009 ALT. '1' & SPECN.NO. CLW/MS/3/008 ALT. '5"	Nos.
58	29041030	KPA	PRIMARY SPRING (INNER) MIDDLE AXLE FOR P7/G9 LOCOS. SPECN. CLW's DRG.NO. 1209-01.115-009 ALT. '1' & SPECN.NO. CLW/MS/3/008 ALT. '5".	Nos.
59	29045034	KPA	Helical Springs For WAP7 Loco Drg.No.1209.01.115-008 Alt.1 1209-01.115-009 Alt.1 1209-01.015-010 Alt.1. CLW/MS/3/SPEC/ELDO-BOGIE/004 Alt.1. Drg.No.1209.01.115-008 Alt.1 1209-01.115-009 Alt.1 Spec:CLW/MS/3/SPEC/ELDO-BOGIE/004 Alt.1.	Set
60	29048059	KPA	HORINZONTAL DAMPER FOR P7 LOCO. SPECN.NO. CLW's DRG. NO.1209-01-215-014(REF.-4) ALT.'1 & SPECN.NO. CLW/MS/3/009 ALT.'3.	Nos.
61	29048060	KPA	VERTICAL DEMPER P7 LOCO. SPECN.NO. CLW's DRG. NO.1209-01-215-014(REF.-3) ALT.'1 & SPECN.NO. CLW/MS/3/009 ALT.'3.	Nos.
62	29048096	KPA	YAW DAMPER FOR P7 LOCO. SPECN.NO. CLW's DRG.NO. 1209-01-215-014 (REF.-5) ALT.-1 & SPECN.NO. CLW/MS/3/009 ALT. '3.	Nos.
63	29048102	KPA	AXLE DAMPER FOR P7 LOCO. SPECN.NO.C LW's DRG.NO. 1209-01-215-014(REF.-1) ALT.'1 & SPECN.NO.C LW/MS/3/009 ALT.'3.	Nos.
64	29048333	KPA	SET OF DAMPER FOR WAP-7 LOCOMOTIVES TO CLW SPECIFICATION NO. CLW/MS/3/SPEC/ELDOBOGIE/002, NOVEMBER'2013 CONSISTING OF FOLLOWING FOUR ITEMS: (1) AXLE DAMPER AS PER DRG.NO.1209-01.215.014, REF-1, ALT-2.QTY/ SET: 08 NOS. (2) VERTICAL DAMPER AS PER DRG NO.1209-01.215.014, REF-2, ALT-2. QTY/ SET: 04 NOS. (3) HORIZONTAL DAMPER AS PER DRG NO.1209-01.215.014, REF-3, ALT-2. QTY/ SET: 04 NOS. (4) YAW DAMPER AS PER DRG NO.1209-01.215.014, REF-4, ALT-2. QTY/ SET: 04 NOS. CLW SPECIFICATION NO. CLW/MS/3/SPEC/ELDOBOGIE/002, Spec:CLW SPECIFICATION NO. CLW/MS/3/SPEC/ELDOBOGIE/002, NOVEMBER'2013	SET
65	29050017	KPA	Wheel Set Guide for G9/P7	Set
66	29060011	KPA	Set of (Wheel Set) Hardware items consists of Three items for 3 phase items.	Set
67	29100010	KPA	Elastic Ring for P7/G9 Loco	Nos.
68	29100033	KPA	Lateral Bump Stop for WAP-5 Loco as per ABB Drg.no. IA-016-00007 Rev-1 Or Latest. Qty-04 nos.	Nos.
69	29100057	KPA	Housing for 3 phase Loco to CLW's Drg. No. 1209-01.113-002 Alt.'8'	Nos.
70	29100069	KPA	Push Pull rod / Traction link for WAG9/WAP7 locos	Nos.
71	29100150	KPA	Holder for Traction motor suspension of traction motor type 6FRA 6068 used in WAG9 & WAP 7 (3 Phase) loco.	No.
72	29100203	KPA	Spheribloc for P7/G9 Loco.	No.
73	29100458	KPA	Set of pivot ring, hosing ring & Locking plate for G9 & P7	Set
74	29101074	KPA	Set of chain for G9 Loco consisting of three items i) As CLW's Drg. No. 1209-01.413-012AI , Qty= 08 Nos./Set. ii) As CLW's Drg. No. 1209-01.315-019 , Qty= 04 Nos./Set. iii) As CLW's Drg. No. 1209-18.406-008 , Qty= 08 Nos./Set. CLW's Specn. No. CLW/MS/3/118	Set
75	29120184	KPA	Modified Cow Catcher Assly. for WAG9 Loco.	Nos.
76	29140432	KPA	Set of Safety Sling for Traction Motor 6FRA6068 of WAG - 9/WAP-7/WAG - 9H Locomotives as per DRG. RDSO/2011/EL/SMI/0269 Rev.-1 dt.16.03.2016 .One set consists of 03 items in 24 Nos. (i) Safety Sling 1810 mm long as per RDSO drg.No-SKEL-4859 Alt.-1. Qty.- 04 Nos. (ii) Safety Sling 1510 mm long as per RDSO drg.No-SKEL-4859 Alt.-1.Qty.-08 Nos.(iii)'D' Shackle for Safety Sling Arrangement for Traction Motor as per RDSO drg. No - SKEL - 5007. Qty. -12 Nos.	Set
77	29160080	kpa	DRIVER DIRECT BRAKE VALVE FD1 KIT FOR E-70 BRAKE SYSTEM FOR WAG-9 & WAP-7 (3-PHASE) CLASS OF LOCOS AS PER FTRTIL PART NO. 790 004 105 CONSISTING 06 ITEMS.	set
78	29160108	KPA	KIT OF FTRTIL MAKE TWO WAY HORN VALVE, COMPRISING OF 07 ITEMS AS PER ANNEXURE FOR CREW FRIENDLY TYPE ELECTRIC LOCOMOTIVES.	SET
79	29160110	KPA	KIT FOR AUTO DRAIN VALVE CONSISTING OF 07 ITEMS FOR WAP-7 & WAG-9 (3 PHASE) LOCOMOTIVES.	SET

SL	PL	Depot	Description	Unit
80	29160169	KPA	M/Kit for sanding equipment manifold assembly as per Annexure for WAP-7 & WAG-9 ( 3-Phase) class of locos conforming to CLW Specn no-CLW/MS/3/001 Alt-17 & Pt no-790006125 of M/S FTRTIL..	SET
81	29160595	kpa	Repair Kit for Parking Brake Cylinder (PBACF) for WAP-5 Locomotives as per M/S FTRTIL Part no-790640217A, consisting of 31 items & 42 Nos as per Annexure.	set
82	29160649	KPA	Duplex check valve 1-1/4" for E-70 Brake System of WAG-9 & WAP-7(3-Phase) locos conforming to CLW Specn no-CLW/MS/3/001 Alt-17 ( item SI no-90) & Pt no-002007800 of M/S FTRTIL (	NO
83	29160650	kpa	SPB- Equipment manifold assembly for E-70 Brake system for WAP-7 & WAG-9 Locomotives conforming to CLW Specn no-CLW/MS/3/001 Alt-17 ( item SI no-57) & Pt no-FT0051929-100 of M/S FTRTIL	NO
84	29160662	KPA	Sanding equipment manifold assembly for E-70 Brake system for WAP-7 & WAG-9 (3-Phase) class of locos conforming to CLW Specn no-CLW/MS/3/001 Alt-17 & Pt no-006117000 of M/S FTRTIL..	NO
85	29160698	KPA	Manifold mounting isolating cock for E-70 Brake system for WAG-9 & WAP-7 ( 3-Phase) class of locos conforming to CLW Specn no-CLW/MS/3/001 Alt-17 & Pt no-006121000 of M/S FTRTIL	NO
86	29160716	KPA	D2 Relay valve (Aux & Dr brake ) for E70 Brake system for WAP-7 & WAG-9 Locomotives conforming to CLW Specn no- CLW/MS/3/001 Alt-17 ( item SI no-77) & Pt no-018001000 of M/S FTRTIL	NO
87	29160728	KPA	Flow Meter gauge relay valve/venturi valve for E-70 Brake system for WAG-9 & WAP-7 Locomotives conforming to CLW Specn no-CLW/MS/3/001 Alt-17( item SI no-65 ) & Pt no-012001000 of M/S FTRTIL	NO
88	29160730	KPA	Direct Brake Exhaust valve ( EP Relay valve) for E-70 Brake system for WAP-7 & WAG-9 Locomotives conforming to CLW Spec no-CLW/MS/3/001 Alt-17( item SI no-94) & Pt no-018101000( Pilot valve 110 V DC) of M/S FTRTIL	NO
89	29160741	KPA	Isolator Assembly for E-70 Brake system for WAP-7 & WAG-9 (3-Phase) class of locos conforming to CLW Specn no-CLW/MS/3/001 Alt-17 & Pt no-005005000 of M/S FTRTIL..	NO
90	29160753	KPA	E-70 BP isolating cock with switch 1-1/4" for E-70 Brake system for WAP-7 & WAG-9 Locomotives conforming to CLW Specn no-CLW/MS/3/001 Alt-17 ( item SI no-80) & Pt no-003041000 of M/S FTRTIL	NO
91	29160777	KPA	Centrifugal Strainer with Drain cock 1/2" for E-70 Brake system for WAP-7 & WAG-9 ( 3-Phase ) locos conforming to CLW Specn no-CLW/MS/3/001 Alt-17 ( item SI no-86) & Pt no-009001000 of M/S FTRTIL..	NO
92	29160790	KPA	Emergency Exhaust valve for E-70 Brake System for WAP-7 & WAG-9 Locomotives conforming to CLW Specn no-CLW/MS/3/001 Alt-17 & Part # 002007900 of M/S FTRTIPL or Modified 1-1/4" Emergency Exhaust valve for WAP-7 & WAG-9 Locomotives conforming to CLW Spec no-CLW/MS/3/001 Alt-17 to KBI Part no-II 103932	
93	29160819	kpa	Set of single tone horn consisting of (i) High tone horn - 1 no/set (ii) Low tone horn - 1 no/set for WAP 7 & WAG 9 (3 Phase) class of Locomotives	set
94	29160844	KPA	Brake way protection valve for E-70 brake system for WAP-7 & WAG-9 Locomotives conforming to CLW Specn no-CLW/MS/3/001 Alt-17 ( item SI no-68) & Pt no-019001000 of M/S FTRTIL	NO
95	29160856	KPA	EBC 5 Blending unit for E-70 Brake system for WAG-9 & WAP-7 Locomotives conforming to CLW Specn no-CLW/MS/3/001 Alt-17( item SI no-75) & Pt no-006113000 of M/S FTRTIL	NO
96	29160870	KPA	Brake frame interface manifold for E-70 Brake System of WAP-7 & WAG-9 (3-Phase) class of locos conforming to CLW Spec No. CLW/MS/3/001 Alt-17 (item SI No-42 ) and FTRTIL Part No. 006005000	NO
97	29160881	kpa	Drivers Direct Brake valve FD-1 for E-70 Brake system of WAP-7 & WAG-9 Locomotives conforming to CLW Specn no-CLW/MS/3/001 Alt-17 ( item SI no-32) & Pt no-004001000 of M/S FTRTIPL	NO
98	29160893	kpa	Double check valve 3/4" for E-70 Brake system for WAP-7 & WAG-9 (3-Phase) locos conforming to CLW Spec no-CLW/MS/3/001 Alt-17 ( item SI no-16) & Pt no-002007500 of M/S FTRTIPL	NO

SL	PL	Depot	Description	Unit
99	29160900	KPA	Latched isolating cock 1-1/4" without vented for E-70 Brake system of WAG-9 & WAP-7 Locomotives conforming to CLW Specn no-CLW/MS/3/001 Alt-17 ( item sl no-23 ) & Pt no-003040000 of M/S FTRTIPL.	NO
100	29160911	KPA	Solenoid Valve ( Panto ) for E-70 Brake system of WAP-7 & WAG-9 Locomotives conforming to CLW Specn no- CLW/MS/3/001 Alt-17( item sl no-49 ) & Pt no-013005000 of M/S FTRTIPL.	NO
101	29160923	KPA	SET OF - (i). AIRLINE SIEVE ¾" AND (ii). CHECK VALVE WITH STRAINER ½" FOR E70 BRAKE SYSTEM OF WAP-7 & WAG-9 (3 PHASE) CLASS OF LOCOMOTIVES.	NO
102	29160935	KPA	Un-loader Exhaust valve 1" for E-70 Brake system for WAP-7 & WAG-9 Locomotives conforming to CLW Spec no-CLW/MS/3/001 Alt-17 ( item sl no-05) & Pt no-002008000 of M/S FTRTIPL.	NO
103	29160996	KPA	Repair Kit/Maintenance Kit for Brake Cylinder (PBAC) of WAP-5 Locomotives to FTRTIPL Kit Part No-790 640 216 A, Kit items consists of 16 items & 20 Nos as per Annexure attached.	SET
104	29161034	KPA	SAND EJECTOR FOR WAP7 /WAG-9 LOCOMOTIVES AS PER Sr.DEE /TRS/GOMOH DRG.NO.TRS/GMO/M-1/WAG-9/017/ER.	Nos.
105	29161083	KPA	Oil separator/Drip cup with auto drain valve for E-70 Brake system of WAP-7 & WAG-9 Locomotives conforming to CLW Specn no-CLW/MS/3/001 Alt-17(Item SL no-21 ) & Pt no-009020500 of M/s FTRTIPL.	NO
106	29161113	KPA	.Auto Drain valve for E-70 Brake System of WAP-7 & WAG-9 Locomotives conforming to CLW Specn no-CLW/MS/3/001 Alt-17 ( item sl no-39) & Pt no-010001100 of M/S FTRTIPL.	NO
107	29161216	KPA	TWO WAY HORN VALVE (DUPLEX VALVE) FOR CREW FRIENDLY WAP-7 & WAG-9 LOCOMOTIVES.	NO
108	29161370	KPA	Maintenance kit for E-70 Brake control unit as per Annexure for WAP-7,WAP-5 & WAG-9 ( 3-Phase) locomotives & Part no-RK-AB 519-T25 of M/S FTRTIPL.	SET
109	29161447	KPA	Emergency Exhaust valve for E-70 Brake system for WAG-9 & WAP-7 (3-Phase) locomotives conforming to CLW Spec no-CLW/MS/3/001 Alt-17 (Item SL no-81) & Pt no-003041500 of M/s FTRTIPL.	NO
110	29161540	kpa	IOH/POH Kit for Air Dryer of Prag Polymer make as per annexure attached conforming to RDSO Specification No MP.0.01.00.06 (Rev 06) of March 2021	set
111	29161769	KPA	Overhauling Kit for Feed Valve (Part No-760533) of KNORR BREMSE make CCB System to KBI Kit Part No-XKI/KIT/01750, One set consists of 18 items 19 Nos.	SET
112	29162026	kpa	Wind screen wiper assembly complete with Air Motor and Water Spray Arrangement for used in Crew Friendly (WAG7 & WAP4) and 3-Phase(WAG9 & WAP7) class of locomotives as per CLW Spec no-CLW/MS/3/050 Alt-6 and CLW Drw no 1209-08 032-023	SET
113	29162701	KPA	Overhauling Kit for BP filter assembly of Electric CCB (One set consists of 05 items, 06 nos as per annexure attached ) of make as per RDSO's approved vendor list.	SET
114	29162713	KPA	Overhauling Kit for 240L, MR/20P/MREP/AC filter assembly of Electric CCB (One set consisting of 02 items, 02 nos as per annexure attached ) of make as per RDSO approved vendor list	SET
115	29168053	KPA	Maintenance kit for various M/S FTRTIPL make pneumatic valves as per Annexure for WAP-7, WAP-5 & WAG-9 (3-Phase) Locomotives.	SET
116	29168089	kpa	Drip cup with ADV Kit comprising of 11 items as per Annexure for WAP-7 & WAG-9 (3-Phase) locomotives conforming to CLW Specn no-CLW/MS/3/001 Alt-17 ( kit for item sl no-21) & Part no-790009115 of M/S FTRTIPL.	set
117	29168892	KPA	Set of Wiper Arm complete LH & RH ( 1 no. each) for WAP-7 & WAG-9 (3 Phase) class of locomotives.	SET
118	29168958	KPA	KIT FOR PRESSURE CONTROL VALVE FOR E-70 BRAKE PANEL FOR WAP-7 & WAG-9 (3 PHASE) CLASS OF LOCOMOTIVES.	SET
119	29169240	KPA	Maintenance kit for (1) Latched solenoid valve, qty-01 no/set ( kit for item sl no-58 ) (2) E-70 BP Isolating cock, qty-02 no/set ( kit for item sl no-80) for WAP-7 & WAG-9 (3-Phase) locomotives conforming to CLW Specn no-CLW/MS/3/001 Alt-17 & Part no-(1) 790013125 & (2) 790003105 of M/S FTRTIPL.	SET

SL	PL	Depot	Description	Unit
120	29169276	KPA	Set of Pneumatic Gauges for Crew friendly cab for conventional locos type WAP-4 & WAG-7 and for WAP-7 & WAG-9 (3 Phase) locos. Consisting of 3 items - 01. 4" Single Air Pressure Gauge self illuminated with LED (Back Lit type) flush mounted for Brake Pipe	set
121	29169318	KPA	OPERATING VALVE FOR WIPER MOTOR FOR WAP-7 & WAG-9 (3 PHASE) CLASS OF LOCOMOTIVES.	Nos
122	29169331	KPA	Compressor check valve 1-1/4" of E-70 Brake system for WAP-7 & WAG-9 Locomotives conforming to CLW Spec no-CLW/MS/3/001 Alt-17 ( item sl no-04 ) & Pt no-002007600 of M/S FTRTIPL	NO
123	29169343	kpa	Kit for Direct Brake Exhaust for E-70 Brake System of WAP-7 & WAG-9 (3-Phase ) locos conforming to CLW Specn no-CLW/MS/3/001 Alt-17 ( Kit for item sl no-94 ) & Pt no-790018220 of FTRTIPL as per Annexure attached.	set
124	29170035	KPA	Driver Seat and pedestal Assly. for P7 & G9 and CF Loco to CLW's Drg. No. 1209-08.131-010 Alt.'6' & Specn. No. CLW/MS/3/021 Alt.'5'	Nos.
125	29170047	KPA	Set of Inter Lock Assembly for cab side Door & machine Room Door Lock as per CLW specification No. - CLW/MS/3/111, Alt. -5. Consists of : - A) For cab side Door Interlock - CLW's Drg. nos. - 1209-9-133-021 Alt. -2, 1209-9-133-022 Alt. -2 & 1209-9-233-023 Alt.-2, Quantity:- 02 nos, (LH) & 2 nos. (RH). B) For machine Room Door Lock - CLW's drg.no.- 1209-09-133-071 Alt.-1, Quantity:- 2 nos.	set
126	29188143	KPA	IOH Kit of Spares (AS/M48) of M/s Trident Air Dryer consisting of 14 items (As per Annexure attached )	SET
127	29238160	KPA	Set of (i) Main Brake Hose Assembly (Main BC Bogie Body), Qty.- 2 nos./set, (ii). Flexible Hose Assembly (Sander Bogie Body), Qty. - 4 nos./set, (iii). Flexible Hose Assembly for no.1 End (3/4") (DJ), Qty. - 1 no./Set, (iv). Flexible Hose Assembly for no. 2 End (3/4") (DJ), Qty.- 1 no./Set, (v). Flexible Hose Assembly (3/4") (Pantograph), Qty. - 2 nos./set, for WAG 9 & WAP7 (3-phase) Loco.	SET
128	29238183	KPA	Set of Oil Spiral Hose for Traction Converter of WAP 7 & WAG 9 (3-Phase) class of Locomotives consisting of following 03 Items-	Set
129	29250067	KPA	MEMBRANE FOR CROWNED GEAR COUPLING (HURTH COUPLING) FOR WAP5 TYPE 3 PHASE ELECTRIC LOCOMOTIVES. AS PER PART NO. ABB- 0501317975	
130	29250122	KPA NEW	Set of Nitrile bonded cork gasket for three phase loco main Transformer, as per SKTECH No : ELW/BSL/3-PH/SK No.303. Alt.-1 or latest, one set consisting of 14 items in 78 nos. Materials and sources of procurement should be as per RDSO TC. No. ELRS/TC/0076 (Rev-1) dt. 22/02/2013.	SET
131	29250158	KPA new	Set of Nitrile Rubber Gasket for 3 phase Loco Main transformer as per ELW Sketch No. ELW/BSL/3PH/SK No.304. Alt-1. One set consists of 06 items, Qty = 38 Nos. as per annexure attached.	SET
132	29250274	KPA	Set of Sealing Rubber consisting of 03 items (i) Self Gripping Sealing Rubber Drg.no.1209-18.406-088 Alt.2, Qty. 01 Mtr./Set. (ii) Self Gripping Sealing Rubber Drg.no.1209-18.406-089 Alt.4, Qty. 80 Mtrs./Set. (iii) Gasket 4 Lip, Drg.no.1209-11.406-091 Alt.3, Qty 16.2 Mtrs/Set	
133	29250559	KPA	O ring for G9/P7 Loco.	No
134	29250742		Set of safety washer & Lock washer for 3-phase MSU consists of 2 items	Sets
135	29251011	KPA	O/H Kit for MR (main reservoir) filter assembly of Electric CCB (one set consisting of 05 items, 06 nos as per annexure attached ) of make as per RDSO's approved vendor KBI KIT No. XKI/KIT/00740	SET
136	29258108		Set of Nitrile Rubber Vulcanized Butadiene & Hydrogenated Nitrile Butadiene Rubber Gasket for Main Transformer bushing for WAG-9 & WAP-7 (3-Phase) Class of Locomotives, Comprising of 06 items in 62 nos. as follows.	
137	29258390	KPA	Set of (1) GASK K-RING KA-80.3 VITON for Secheron contactor type BPS 15.15C/2 and (2) PISTON KKE 80.3 with seal for Secheron contactor Type BPS 15.15C/2 for WAP-7 & WAG-9 (3 Phase) Locomotives.	set

SL	PL	Depot	Description	Unit
138	29301130	KPA	Hex Head Bolt for Traction Motor fixing with suspension tube M30 x 140 mm. P 8.8, Zinc plated, IS-1364 as per CLW Drg. no. 1209-01.111-004 Alt 5, item no.46, for use in TM type 6FRA6068 for WAG9 & WAP7 (3Phase) loco. make LPS/ Vardhaman Industrial fasteners/sundaram fasteners (TVS)/LPS <del>boscard/ Deepak Fasteners/Bolt Master)</del>	No.
139	29315141	KPA	Set of All Steel Lock Nut	Set
140	29380029	KPA	Cab activating key switch (Pos.no.125).	No.
141	29420039	KPA	20 T Pinion for P7 Loco to RDSO'S Drg. No. SKDP-3473 Alt.'3' & specn. No. MP.02800.19 (Rev.O.OO) of Oct2005	No
142	29420040	KPA	Gear 72 teeth for P7 Loco	No
143	29420052	KPA	Pinion Shaft 21 teeth for WAG9 Loco	No
144	29420064	KPA	COG Wheel gear 107 teeth for G9 Loco.	No
145	29448013	KPA	M.S. Fabricated Impeller for TM Blower (TMB) for WAG-9 & WAP-7 (3-Phase) Class of Locomotives.	Nos.
146	29470080	KPA	Crew Fan for WAP-7 & WAG-9 (3-phase) Class of Locomotives.	Nos
147	29488035	KPA	Set of Filter Assembly for WAG-9/WAP-7 Loco. Each set consisting of three Items: (i) Filter Assembly for O/C vent, CLW Drg. No. : 1209- 11.135-123 Alt.-3. Qty. 02 Nos. (ii) Filter Assembly for T.M vent, CLW Drg. No. : 1209- 11.135.122 Alt.-2, Qty. 02 Nos. (iii) Filter Assembly for. FLOSEP M/C room ventilation, CLW Drg. No. : 1209-11.135.121 Alt.-2, Qty. 02 Nos.	Set
148	29500035	KPA	Temperature Sensor for Traction converter with all accessories for WAG 9 & WAP 7- 3 Phase loco.	No.
149	29500114		Tracktive / Braking effort meter 3 Ph	No.
150	29500138		Set of Volt Meter consisting of (i) Battery Volt Meter(UBA) Range: 0-150V- 01 no. & (ii) Catenary Volt Meter Range : 0-30KV-01 no. For WAG-9 & WAP-7 (3 Phase) Locos	set
151	29508101	KPA	Pressure sensor 0-4 bar for transformer with accessories Cable washer and cannon connectors (plug and plug socket). Cable must be connected with plug socket connector to concerning pin with boot sleeves on plug socket along with cable and connector for WAG-9 & WAP-7 (3 Phase) loco.	
152	29508137	KPA	Pressure Sensor for Traction converter (SR) with accessories. Rating-0..4 Bar/ 4....20 mA-5M for WAG - 9 & WAP-7 (3 Phase) loco.	No.
153	29510302	KPA	POH Kit for Elgi make Compressor type RR20100CG(M) as per Elgi Part no. 072493269 consisting of 78 items (Annexure attached) suitable for WAG9/WAP7/WAP 5 Locomotives.	SET
154	29600212	KPA	Electron Beam Single Core Cable size 9 GKW-A X 120 Sq.mm -4000V- BK for WAP-7 & WAG-9 (3 Phase) Locos.	MTR
155	29600406	KPA	High voltage Cable with plug (T-type Cable head termination system) for WAP7 & WAG 9 (3-phase) Class of Locomotives.	
156	29607980	KPA	Fiber Optic TXRX ( Fiber Optic Card) for WAP7 & WAG 9 (3 Phase) Loco	Nos.
157	29610023	KPA	Head Light Lamp 200 Watt, 120 Volt for WAP7 & WAG 9 (3-phase ) Class of Locomotives.	No.
158	29610060	KPA	Instrument cooling fan for BUS converter & Central electronics for WAG9/WAP7 Locos.	No.
159	29618198	KPA	Set of F.L. Lamp consisting of - (1)Complete Corridor Light with Ballast and fittings –1 no/Set. (2)Complete Driver'sCab Light with Ballast and fittings– 2nos/Set.	set
160	29620016	KPA	Earth Return Brush holder Assembly complete without Carbon Brush for WAG-9 & WAP-7 (3-Phase) class of Locos.	No.
161	29620053	KPA	Earth Return Carbon Brush for WAP-7 & WAG-9 (3 Phase) locomotives.	No.
162	29640088	KPA	Relay for Control Electronics "ON" along with accessories for WAG-9 & WAP-7 (3 Phase) Locos.	set
163	29660051	KPA	Time relays for 3 Ph Loco : MRB (Pos. 54.2/1+2) CLW/ES/3/0012	set

SL	PL	Depot	Description	Unit
164	29660075	KPA	Relay for Control Electronics "OFF"/Temperature along with accessories for WAG-9 & WAP-7 (3 Phase) Locos.	set
165	29680013	KPA	Battery Box complete for WAP7 & WAG 9 (3-phase) Class of Locomotives.	No.
166	29680025	KPA	Ni-Cd Battery in loco set, consisting of 3 cells in one block & 26 such blocks in one loco set for WAP-7 & WAG-9 (3-phase) Class of Locomotives.	set
167	29700012	KPA	Rotary switch for cab heater of WAP7 /G9 loco	No.
168	29700024	KPA	Set of switches 6A-250V 3Ph	set
169	29700036	KPA	Spring Loaded Switch 6A - 250V used as ZPT,BLDJ, BLHO (Pos no. 129, 134, 169.1) Type SBM-F/TOU/21/22/R20 for WAP-7 & WAG-9 (3 Phase) locos	No.
170	29700085	KPA	Foot Switch spring Load for sanding, Vigilance and Release of Indep. Brake for WAG-9 & WAP-7 (3-Phase) Class of Locos, Convntional locos & Crew friendly Cab locos.	No.
171	29700127	KPA	Key Switch Simulation for WAG-9 & WAP-7 (3 Phase) Locos.	No.
172	29700139	KPA	Push Button for Emergency Stop for Conventional, WAP-7 & WAG-9 (3 Phase) Locos.	No.
173	29700140	KPA	Set of Indication Lamp and Illuminated Push Buttons set consisting of all items and quantity complete for WAG-9 & WAP-7 (3 Phase) Locos.	set
174	29700152	KPA	Spring loaded switch for headlight and headlight intensity. M/s.Schaltbau type PS/7/9/S 800 A 24 for WAP-7 & WAG-9 (3 Phase) locos.	No.
175	29700292	KPA	Rotary Switch failure mode operation in SB1	No.
176	29708023	KPA	Set of Rotary switch 3Ph	set
177	29708175	KPA	Contact auxiliary type F(Faston) for contactor type BPS 15.15 C/2 and BPS 30.06 S for WAP-7 & WAG-9 (3 Phase) class of locomotives.	No.
178	29718624	KPA	MCB for compressor, consisting of i)Power circuit breaker Type Q x 3 - 40A AH 6569, 230/400V, 50KA, 690 VAC, ii)Auxiliary contact Type QHK SS for WAP-7 & WAG-9. As per CLW spec No. CLW/ES/3/0096 Alt-H.	No.
179	29738039	KPA	Set of Transformer Fixing Bolts with Nuts (16 nos each). Hex Bolt M 24x220 mm Long, threaded length 75mm class 8.8 and Hex nut with Nylon inserts for LOT6500/LOT7500 Transformer. Make and conditions are mentioned as per CLW's Drg No. CLW/ES/3/0069 Alt D S	set
180	29748069	KPA	Set of Knife (power) Contact ( Male ) for WRE and GG Module in Auxiliary Converter ( BUR 1,2&3) for WAP -7 & WAG-9 ( 3 Phase GTO based) Loco as per ABB ID no. HIET 430209R0002 & HIET 430209R0001. No. of Contact as per ABB ID No HIET 430209R0002 - 06 nos./Set & No. of Contact as per ABB ID no. HIET 430209R0001- 07 nos./Set.	set
181	29748150	KPA	Door Lock complete for Auxiliary Converter of WAP-7 & WAG-9	set
182	29750039	KPA	Set of DC-DC Converter consisting of- (1). 110V DC input 24V DC output 31...144V DC- 3A- 24V DC--1no/set. (2). 110V DC input 48V DC output 58...144V DC - 3A- 48V DC--1no/set. for WAP-7 & WAG-9 (3-phase) Class of Loco	set
183	29778074	KPA	Electrolytic Capacitor, 6000 micro farad, 350 V DC. -40/+ 105 degree centigrade [For BUR DC Link] B 43570-C 4608-Q, 6000 Q EPCOS-LL, Type - AL - EL. Spec/Drg. no. ABB ID no.-HETT-402364 P0060.	No.
184	29868026	KPA	SENSOR UNIT FOR MASTER ROLLER CONTROLLER FOR WAP7 & WAG9(3 PHASE) LOCO.SPECN. NO.AS PER CLW SPECN.NO. CLW/ES/3/0031 ALT.- H. (Angle Transmitter)	No.
185	29880040	KPA	Maintenance kit for Pantograph Equipment Manifold for WAP-7 & WAG-9 (3 Phase) locos	Sets
186	29890044	KPA	Contactor Auxiliary 150 Amps with auxiliary switch block	set
187	29890056	KPA	Contactor for Main Compressor and Scavenge blower 80 Amps. (Contactor LC1-D80 FW, 80, 110 V DC Coil) for WAP 7 & WAG 9 (3 Phase) Locos.	
188	29890070	KPA	Auxiliary contactors Schaltbau type S-163, 80Amps, 110V (Pos./Qty : 48.2/1, 52.3/5, 52.6/2, 52.4/2, 338/2) for WAP-7 & WAG-9	No.

SL	PL	Depot	Description	Unit
189	29940011	KPA	Set of single duct leather bellows with modified top plates, bottom plates and plates flange, one set consists of 5 items 24 nos. (1) single duct leather bellow type I as per RDSO Drg No.SKEL-4893 Alt.1- Qty=02 Nos. (2) single duct leather bellow type II as per RDSO Drg No.SKEL-4893 Alt.1- Qty=04 Nos. (3) Modified plate flange- traction motor inlet as per RDSO Drg No.SKEL-4892 Alt.0- Qty=06 Nos. (4) Modified bellow bottom plate- as per RDSO Drg No.SKEL-4891 Alt.0- Qty=06 Nos. & (5) Modified bellow top plate- as per RDSO Drg No.SKEL-4894 Alt.0- Qty=06 Nos.	loco set
190	29940023	KPA	Bellows for Traction Motor of WAP 5 Locos As Per ABB Drg. No - IA-111-00021 Rev. 4 and CLW Specn. No - CLW/MS/3/006 Alt. 2.	No.
191	29940047	KPA	Spheribloc for Traction Motor Support Arm for WAP-5 locos as per RDSO Specification No. RDSO/2007/ EL/ SPEC/0051/ REV.3 and ABB Drg. No. IA016-00269 REV.-3	No.
192	29940114	KPA	Set of Labyrinth Ring and Bearing Cover (DE) for Wap-5 traction motor type 6F xA 7059 consist of 3 items in 3 nos. i) Bearing Cover (DE) Qty./Set - 01 No as per CLW drg. no 3TWD.097.036 Alt. 3 ii) Inner Labyrinth ( DE) Qty./Set - 01 No as per CLW drg. no 4TWD.097.037 Alt. 3 iii) Inner Labyrinth ( DE) Qty./Set - 01 No as per CLW drg. no 4TWD.097.035 Alt. 3. CLW Specn. No 4TMS.096.068 Rev.2, Alt. 1 and RDSO STR No RDSO/2007/EL/STR/0021 Rev.1	Set
193	29940187	KPA	SPEED PROB HOUSING (MACHINED) VENTED FOR TRACTION MOTOR TYPE 6FRA 6068 FOR WAG-9 & WAP-7 (3 PHASE) LOCO. CLW'S SPECN.NO. 4TMS.096.068 REV.1, ALT. 3, CLW's DRG.NO. 1 TWD.096.077 ALT. 4.	No.
194	29940205	KPA	Set of cable cleat with bin rail for TM of WAG9 / WAP7	Set
195	29941039	KPA	Standard Hardware KIT for 6FRA-6068, Drawing/Specification No.4TMS.096.075, Rev. 0 (Page No.03 of 05) (Details of Individual Items of KIT as per Annexure)	set
196	29941349	KPA	Hall effect active Speed Sensor for Traction motor of WAG9 & WAP 7 ( 3Phase) loco with IGBT based Traction converter. Consisting of hall effect active speed sensor and cable.	No.
197	29945513	KPA	Standard Hardware Kit conforming to CLW Spec.No.4TMS.096.075 Rev. 0 Alt. 1. Kit consists of 14 items 89 nos. as per annexure.	set
198	29948071	KPA	Set of Inner Labyrinth (DE) for 3 Phase Tr.Motor model 6FRA6068 consisting of 2 items (a) Inner Labyrinth (DE) - 01 no/set,(b) Inner Labyrinth (DE)-01 no./set for WAP-7 & WAG-9 (3 Phase) locos.	set
199	29948083	KPA	Set of Outer Labyrinth (DE) for 3 Phase Tr.Motor model 6FRA6068 consisting of 2 items (a) Outer Labyrinth (DE)-01 no./set, (b)Outer Bearing Cap (DE)-01 no./set for WAP-7 & WAG-9 (3 Phase) locos.	set
200	29948149	KPA	Set of Labyrinth Ring , Bearing Cap and Clamp Plate (NDE) for WAP - 5 Loco Traction Motor Type 6FXA 7059 . Each Set consists of 4 items in 4 nos. i) Inner Labyrinth (NDE) as per CLW drg. no 4TWD.097.034 Alt. 3 Qty./Set - 01 No ii) Inner Labyrinth ( NDE) as per CLW drg. no 4TWD.097.038 Alt. 3 Qty./Set - 01 No iii) Bearing Cap (NDE) as per CLW drg. no 3TWD.097.039 Alt. 4 Qty./Set - 01 No iv) Clamp Plate ( NDE) as per CLW drg. no 2TWD.097.040 Alt. 3 Qty./Set - 01 No . CLW Specn. No 4 TMS.096.068 Rev.2, Alt. 1 and RDSO STR No RDSO/2007/EL/STR/0021 Rev.1	Set
201	29960046	KPA	AOH/IOH/POH Kit for Secheron Contactor Type BPS 15.15 C/2 & BPS 30.06S as per Secheron part no.SG201176R00020. Each set consists of 8 Items 10 nos.	set
202	29968033	KPA	Arching contact for EP conatactor of 3 phase loco	No.
203	31307954	KPA	Hex. Head bolt 14 x 60	No.
204	31307980	KPA	Hexagon head bolt M14 X 80	No.
205	31308673	KPA	Hexagon head bolt M20 x 60.	No.
206	31309069	KPA	Hex. Head Bolt 16 x 45	No.
207	31309781	KPA	Slotted hex. Bolt with nut M4 x 30N.	No.
208	31309860	KPA	Slotted hex. bolt with nut M6 x 25N	No.
209	31309884	KPA	Slotted hex head bolt with nut size 6x30mm	No.
210	31309902	KPA	Slotted hex. bolt with nut M6 x 35N. Threaded length (b) = 22.	No.
211	31311222	KPA	Nut hex. M 8.	No.

SL	PL	Depot	Description	Unit
212	31317108	KPA	Nut hex. M12.	No
213	31317170	KPA	Hex. Nut M14x2	No.
214	31317248	KPA	Nut hex. M6.	No.
215	38164670	KPA	Connection pipe for feed pipe of Brake System size 1-1/4"X 26".	SET
216	38164681	KPA	Air brake hose coupling for brake pipe of brake System.	SET
217	41071074	KPA	Flexible resilient synthetic rubber bonded cork sheet size 6.4 mm	NOS
218	73853434	KPA	Slotted hex bolt with nut M8x30N.	No.
219	73853458	KPA	Hex Bolt M 18x45	No.
220	73853562	KPA	Hexagon head bolt M12 x 30.	No
221	80010325	HLR	Transformer Oil for WAG-9 & WAP-7 (3-Phase) Locomotive.	Ltr
222	80010349	HLR	Gear case Oil Servosyngear 460 RR of IOC Make for WAG9 and WAP7 Locomotives.	lit
223	80031638	HLR	"MOLYKOTE 55'O' RING GREASE (IMPORTED) BASE-SILICON,M.P.-204 DEGREE C,ABSOLUTE VISCOSITY AT 54 DEGREE C -4300 POISE, DEPTH OF PENETRATION -275 N.I.G.I. NUMBER-2".	Kgs.
224	80100016	HLR	Oil Shell Diala DX for Traction Converter and Main Transformer for WAG9 & WAP-7 (3-Phase) Class of Locomotives & 3 Ph EMU	LTR
225	81034829	HLR	Silica Gel (Dessiccant) Indicating type mm.	Kg.
226	85011319	KPA	Ball bearing 6206 C3 for Auxiliary Machine of Locomotives (Conv. & 3-Phase) & EMUs.	
227	85011812	KPA	Ball Bearing 6306C3 for Locos and EMUs.	Nos.
228	85014084	KPA	Ball Bearing 6302 ZZ. AM12	Nos.
229	85019732	KPA	Ball Bearing 6312 - C3 used for Conventional and WAP-7 & WAG-9 (3 Phase) Locos.	Nos.
230	85030673	KPA	Self Aligning Ball Bearing 1305	Nos.
231	85031185	KPA	Ball Bearing 2204.	Nos.
232	85157960	KPA	Set of Roller Bearing NU2236 & NJ 320 for Traction Motor type 6FRA6068 for WAP-7 & WAG-9 (3Ph) locos	Set
233	85900333	KPA	Ball Bearing 3306 A (Metallic cage) for WAP-7 & WAG-9 (3 Phase) Locomotives.	Nos
234	85902380	KPA	Double Row Deep Groove Ball Bearing SKF no.4306ATN9 (Bearing with polyimide cage) for Converter/Transformer Oil pump for WAP-7 & WAG-9 (3-Phase) class of Locomotives.	Nos
235	85905227	KPA	Radial Ball Bearing 6205 Z Z for Locos and EMUs.	
236	25618519	KPA	Set of spares for twin beam head light for Loco & EMUs.	Set
237	25680158	KPA	Low maintenance lead acid battery 75 AH for locomotives	set
238	80011147	HLR	Grease gadus S5 V42 P 2.5 for 3 Phase Loco axle box	Kgs.
239	80030166	HLR	Servo plex SHE-120 for suspension tube & TM bearing of 3Ph Locos (WAG9, P7) and 3 Ph EMU Suspension tube,	Kgs.
240	29162142	KPA new	KIT for IOH schedule of E-70 brake system" OFF the Panel. Make Faively.	set
241	29162154	KPA new	KIT for IOH schedule of E-70 brake system" ON the Panel. Make Faively.	set
242	29628027	KPA	Earth Return Brush holder Assembly complete without Carbon Brush for WAG-9 & WAP-7 (3-Phase) class of Locos.	No.
243	29500023	KPA	Traction Motor Temperature sensor with cable for 3-phase Traction Motor type 6FRA 6068 for WAP-7 & WAG-9 (3 Phase) Loco.	No.