

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

No. 2025/RS(G)/779/3 (E3488356)

Dated: 02.05.2025

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: Implementation of Public Procurement (Preference to Make in India) Order,  
2017 – Clause 3(a) regarding**

- Ref: (i) Railway Board letter No. 2015/RS(G)/779/5 (Vol.III) dated 09.02.2021
- (ii) Department for Promotion of Industry and Internal Trade (DPIIT)'s revised Public Procurement (Preference to Make in India) (PPP-MII) Order, 2017 dated 19.07.2024, circulated to Railway units vide letter No. 2020/RS(G)/779/2/Pt.1 (E 3322671) dated 20.08.2024

1. Clause 3(a) of Public Procurement (Preference to Make in India) (PPP-MII) Order, 2017 (last amended by DPIIT vide Order at ref. ii) stipulates as under:  
  
*'In procurement of all goods, services or works in respect of which the nodal Ministry/ Department communicated that there is sufficient local capacity and local competition, only Class-I local suppliers as defined under the order shall be eligible to bid irrespective of purchase value.'*
2. Ministry of Railways, being nodal ministry for Railway specific goods, is mandated to issue notify list of items where there is sufficient local capacity and competition and where public procurement shall be restricted only to 'Class-I local suppliers'.
3. Railway Board had, vide letter under ref (i), notified a list of 136 items, required in manufacture and maintenance of 3 Phase Electric Locomotives, restricting procurement of the same to Class I local suppliers. The list has now been reviewed. It has been decided to notify a new list of 243 items, required in manufacture and maintenance of 3 Phase Electric Locomotives, listed in the annexure enclosed herewith, in supersession of the list notified vide letter at ref. (i), wherein the procurement shall be restricted to Class I local suppliers only.
4. Requirement of a vendor to be a Class I local supplier shall be a mandatory condition in addition to other qualifying criteria, including status of approval with respective vendor approving agencies etc., which may be applicable for purchase of the item. Suitable eligibility criteria shall be added in the tenders by procuring agencies. Suitable condition should also be inserted in tenders calling attention of vendors, clearly indicating that in keeping with the Public Procurement (Preference to Make in India) Order, 2017, as

amended, it has been found that there is sufficient local capacity and competition in supply of the tendered item of required quality and therefore public procurement of the item is restricted to Class I local suppliers only and the vendors who do not qualify to be Class I local suppliers should not quote in the tender as their offers shall not be considered for any ordering. In case any vendor who does not qualify to be a Class I local supplier for the tendered item participates in the tender it does so at its own risk and cost and Railways shall not be liable for any loss or damage caused to the vendor.

5. This is issued with the approval of Railway Board(M/TRS).

*m q u i*  
*02/05/2025*

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EDPG/MR, EDPG/ MoSR (R), JDPG/MoSR(S)  
All AMs, PEDs & Executive Directors of Railway Board.

**Annexure to Letter No. 2025/RS(G)/779/3(E3488356) dated 02.05.2025**

SN	ITEM	CLW PL NO.	DRG/SPEC NO
1	Motor for Compressor	29511008	CLW/ES/3/0100 ROSO/SPEC/ E-10/3/09 (motor)
2	Blower for Machine Room	29440105	CLW/ES/3/0020
3	Motor for Machine Room Blower	29440105	ROSO Spec No. E-10/3/09 (Motor), ABB drg no. 3EHP590467R001 CLW/ES/3/0020
4	Blower Scavange for Machine Room	29440129	CLW/ES/3/0022
5	Blower for Traction Motor	29440075	CLW/ES/3/0019
6	Motor for Traction Motor Blower	29440075	CLW/ES/3/0019 ROSO Specn. No. E-10/3/09 (motor)
7	Blower Scavange for Traction Motor and Oil Cooler	29440117	CLW/ES/3/0021
8	Motor for Scavange Blower to TM / Oil cooling	29440117	CLW/ES/3/0021 ROSO Spec. No. E-10/3/09 (motor)
9	Oil Cooling Unit for transformer/ converter with impeller and casing	29470043	CLW/ES/3/0647 RDSO/2016/EL/SPEC/ 0123 Rev.1
10	25KW Motor for oil cooling unit for Three Phase Locomotive		TECH .SPEC/E-10/3/09 (Motor) (3 Phase Drive Looco), with Amendment No 1 to4. CLW/ES/3/0023
11	30kW Motor for oil cooling unit for Three Phase Locomotive		ROSO Spec. No. E-10/3/09(Motor) with Amendment slips no. 1 to 5
12	30KW Motor for oil cooling unit (Centrifugal Design) for Three Phase Locomotive		ROSO Spec No. E-10/3/09 (Motor), with Amendment No 1 to 5.
13	Aluminium impeller for Oil cooling unit		CLW/ES/3/0647
14	Transformer Tranela- 15 (Aux. Transformer)	29690079	CLW/ES/3/0098
15	Earth Fault Relay Harmonic Filter/ Auxiliary Converter	29660014	CLW/ES/3/0090
16	Main Transformer for WAG-9 Loco (6531 KVA)	29731008	CLW/ES/3/0456
17	Main Transformer for WAP-5/WAP-7 (7475 KVA)	29735014	CLW/ES/3/0315
18	Main Transformer 7775 KVA Type Lot 7500 for WAP-7 & WAP-5 Locos	29731057	CLW/ES/3/0660/A
19	Set of Metallic Pipe for Main Transformer	29230044	CLW/ES/3/0253
20	Transformer Module Primary Voltage	29690092	CLW/ES/3/0083
21	Cab Heater/Ventilation	29170011	CLW/ES/3/0109
22	Crew Fan	29470080	CLW/ES/3/0110
23	Master Controller	29860015	CLW/ES/3/0031
24	Cab Air Conditioning System	29811028	RDSO/2007 /EL/SPEC/0055(REV."1")
25	Complete HB1/2, SB1/2 (without electronics), filter & F-cubicles along with all equipments and cabling.	29171180 29171192 29171209 29171210	CLW/ES/3/0191; 0192; 0193; 0194; 0195 & 0652
26	Pantographs for Freight locos (AC application)	29880026	RDSO/2008/EL/SPEC/0066Rev.'0'dated 20.6.2008andAmend1 Dtd. 31.12.08
27	Metallised Carbon Strip for Pantographs		RDSO/2009/EL/SPEC / 0097 Rev. '1' Sept. 2013
28	Vacuum Circuit Breaker (single bottle)	29711046	CLW/ES/C-47
29	Pantograph Disconnecting + Earthing Device	29810050	CLW/ES/3/0008

SN	ITEM	CLW PL NO.	DRG/SPEC NO
30	Set of Roof Bars	29810115 29815009	CLW/ES/3/0063 CLW/ES/3/0036
31	Resistor Harmonic Filter for WAG-9 /WAP-7	29650033	CLW/ES/3/0015
32	Resistor Harmonic Filter for WAP-5	29655006	CLW/ES/3/0307
33	Conduit for Cables (Metallic)	29605064 29600595	IA0 51-00112
34	SRBGF Items & Set of Fibre Glass Cable Cleat for TM (Type-4)	29720795 29615045	CLW/ES/3/0056 & CLW/ES/3/0414
35	Set of Cable Clips	29210409 29210410 29210422	CLW/ES/3/0133
36	Cable Lug	29610011 29612615	CLW/ES/3/0130/I
37	Al. Cable Cleat	29611702 29725150	CLW/ES/3/0039
38	Set of Cable Cleat with DIN rail for TM	29615094	CLW/ES/3/0045
39	Set of cable disconnection	29615008 29612810	CLW/ES/3/0424 CLW/ES/3/0128
40	Set of Cable Tray	29612950 29612949 29615150	CLW/ES/3/0132 CLW/ES/3/0316
41	Copper Sleeves & Set of copper sleeves	29610370 29615392	CLW/ES/3/0205
42	Set of Steel Sleeves	26612008	CLW/ES/3/0205
43	Set of Insulators	29721180 29725057	CLW/ES/3/0145
44	Set of Rubber Items	29250134 29255065	CLW/ES/3/0151
45	Set of Gasket for WAG-9/WAP-7&WAP-5 Loco.	29255041 29250018	CLW/ES/3/0142
46	Set of Neoprene Hoses	29230068	CLW/ES/3/0094
47	Hose for Cab Heater	29232685	CLW/ES/3/0436
48	Set of Other Hoses	29611489 29611519	CLW/ES/3/0099
49	LED Based Flasher Light	29612937	ELRS/SPEC/LFL/0017 ( Rev1, Oct 2004) CLW/ES/SK-3/L-21/C
50	Head Light Housing	29610965	CLW/ES/3/0114
51	Driver's Desk & Assistant Driver's Desk Illumination	29170023	CLW/ES/3/0042
52	Latching Push Button Corridor Lighting	29700097	CLW/ES/3/0044
53	LED Based Marker Light	29612925	ELRS/SPEC/PR/0022 ( Rev1, Oct 2004) CLW/ES/SK-1/L-29
54	Set of Copper Braid	29612779	CLW/ES/3/0138
55	Set of Non Metallic Plate	29170965	CLW/ES/3/0451

SN	ITEM	CLW PL NO.	DRG/SPEC NO
56	Set of Bus Bar	29615525 29615537 29615574 29615562 29615549 29611550	CLW/ES/3/0118 CLW/ES/3/0412
57	Set of Spacer	29610448 29611490	CLW/ES/3/0156
58	Set of Union & Fittings	29610345	CLW/ES/3/0163
59	Set of Non-metallic Pipe (Smoke Detection Pipe)	29230020 29235054	CLW/ES/3/0254 for WAG- 9 CLW/ES/3/0413 for WAP- 5
60	Axle Box Complete without Bearing (WAG-9 & WAP-7)	29010044 29015005	CLW/MS/3/003 1209-01.111-005 1209-01.111-006 1209-01.111-007
61	Axle Guide Bearing (WAP-5)	29055015	IA011-00379
62	Bar for bogie head beam	29101025	1209-01.312-171
63	Traction Motor Cooling Bellows	29940023	CLW/MS/3/006,
64	Bolt (Pin) 12	29300836	1209-01.413-011
65	Bolt	29301117	1209-01.315-017
66	Fixing Cables (Safety Sling for Push- Pull Rod)	29100239 29105195	1209-01.318-018 1209-01.318-019 IA016-00260 IA016-01095 IA016-01096
67	Leather Bellow with Mounting Arrangement and Hardware in a set for WAG-9 /9H /WAP-7	29940436	1209-01.018-024 Alt. 1
68	Gear & Pinion for WAP-5 ( 67:35:17); WAP-7 ( 72:20); WAG-9 ( 107:21) or (77:15)	29425086 29420120 29420131	ROSO Spec- MPO 2800.19,Rev-0 (Oct'05) SKDP-3473 & 74 SKDP-3435 & 36 SKDP-3847 & 48 IA011-230, 231,232 for WAP-7/WAG-9
69	Gear Case-Complete	29030018	1209-01.013-014
70	Holder for TM suspension	29100150	1209.01.118-002
71	Housing	29100057	1209-01.113-002
72	Set of Insulating base	29725021	1209-01.415-015 1209-01.315-016
73	Suspension Tube and its assembly components for Three Phase Traction motor type 6FRA 6068 of Electric Locomotives (Motor Suspension Unit)	29100288	CLW/MS/3/201
74	Pivot	29140134	1209-01.112-002
75	Sealing (cu. Washer)	29100320	1209-01.412-069
76	Spring guide	29101001	1209-01.212-003
77	Elastic Stop (lateral & vertical)	29250470	CLW/MS/3/010 1209-01.315-021, 1209-01.315-022
78	Tubes	29230512 29105158	CLW /MS/3/055
79	Threaded Bolt	29305007 29300850	IA016-00272 CLW /MS/10/060 1210-01.415-021 1209-01.315-020

SN	ITEM	CLW PL NO.	DRG/SPEC NO
80	Tube	29232673	1209-01.312-160
81	Push / Pull Rod	29100069 29100094	1209-01.113-006
82	Brake Gear Arrangement & Details for WAP-7 Loco	29140225	1209-01.116-059
83	a) Wheel Set Guide (Steel Casting)	29050017	1209-01.115-004 for WAG-9
84	Bogie Frame Complete for Co-Co Locomotives	29100422	1209-01.112-202 CLW/MS/3/Bogie/003
85	Torque Support	29100380	1209-01.218.003
86	Battery Box Assly.	29680013	CLW/MS/3/037 1209-06.138-001 1209-06.138-003
87	Blind Installation	29170059	CLW/MS/3/035
88	Filter Assly.	29480103	CLW/MS/3/012 1209-11.235-132
89	Fire Extinguisher	29170631	CLW/MS/3/016 1209-13-240-025
90	FRP under panel of Cab	29720412	CLW/MS/3/018
91	Gasket (non-metallic)	29250651 29250602 29250043	CLW/MS/3/062 CLW/MS/10/020
92	Grommet for wiper pipe pass	29250432	1209-03.330-240
93	Inter Lock Assly.	29170047 29171003	CLW/MS/3/111
94	Plywood (Impregnated Compressed laminated)	29170217 29175148	1209-08.231-013 1209-08.231-014 1209-08.331-015 1209-08.331-016
95	Rubber Hose for Scav. Blower	29255030	1209-11.344-046 1209-11.344-052 1209-11.339-037
96	New Design Cattle Guard for WAP-5 Locos suitable for high speed 160 Km/hr.	29125080	IA021-00029 CLW/MS/3/107
97	Safety flooring PVC	29170552	RDSO/2006/CG-12(Rev-1)
98	Copper Pipe fittings	29230081	CLW/MS/3/067 CLW/MS/10/017
99	Copper Tubes	29170333	CLW/MS/3/030
100	Flexible Hose assly.	29230123 29234980 29235005	CLW/MS/3/033 CLW/MS/10/035
101	Nylon Tubes	29185026	CLW/MS/3/079 CLW/ES/3/0260
102	Saddle light stauff	29170072 29175288	1209-18.406-053,
103	Steel Pipe fittings	29230366 29180107  29230184	CLW/MS/3/068 CLW/MS/10/018
104	Wiper Assly.	29162026	CLW/MS/3/050

SN	ITEM	CLW PL NO.	DRG/SPEC NO
105	Reservior above 50 litres	29162105 29162099	CLW/MS/3/110 ( For 3-Ph) 0/3/65/234(P) 0/3/65/136(P) 0/3/65/136
106	Standard Hardware (MS)	25949470	IS: 1364 IS:1365 IS:2232
107	Non-Standard Hardware	25949329	
108	Spring Washer	29350025	CLW/MS/3/085
109	Set of terminal block (Screw type)	29615161	CLW/ES/3/0645
110	Cubicle HB1& HB2 (Bare) Cubicle SB1 & SB2 (Bare) Filter Cubicle (Bare) SS Louvre Assembly	29170643 29170667 29170655 29480139  29170205	CLW/MS/3/047  CLW/MS/3/098 CLW/MS/3/046 CLW/MS/10/009 CLW/MS/3/097
111	Cubicle 'F' Driver Cab Filter Frame Assly. (Fly screen) Piano Hinge SS Sheets & Plates Transition Duct Assly. Cover Assly. Security Lock Sand box Assly(WAP-5)  Stainless Steel Trough for AC Cab for WAP-5 Loco Roof Hatch Retainer Assly. For WAG-9H/WAP- 7 Loco. (Each Loco set is consisting of 4 items)	29170175 29480115  29171179 29120147 29175010 29470079 29120100  29075002  29175021  29175392	CLW/MS/3/045 120911.244-024 1209-11.144-025 1209-06.327-040 CLW/MS/3/039 CLW/MS/10/028 1209-11.244-024 1209-11.144-025 1209.02.127.037  CLW/MS/10/038 1210-07-138-002 1210-07-138-003 1210-07-138-004 1209-08.230-518 1209-10.237-051 1209-10.437-055 1209-10.337-077 1209-10.337-054
112 (A)	Group-A Circuit Breaker Box Assly. Extracter Ventilator Rotary Shutter SS Pressed Section  Set of Metallic plate Set of Bracketted sheet Set of casing Set of cover for WAP5 Set of cover Set of panel plate	29170310  29170140 29175045  29612860 29610254 29611507 29610242 29170620	1209-06.142-003  1209-08.330-185  1209-08.330-186 CLW/MS/3/038 CLW/MS/10/027 CLW/ES/3/0450 CLW/ES/3/0153 CLW/ES/3/0134 CLW/ES/3/0406 CLW/ES/3/0139 CLW/ES/3/0453
(B)	(Group-2) Lock Quarter turn Set of clips for pipes /hose Set of looming bars Set of Shackle  Set of clamp Hinge base assly. Gasket (Metallic)	29171155 29612858 29612834 29611805  29610266  29250614	1209-18.306-004 CLW/ES/3/0136 CLW/ES/3/0119 CLW/ES/3/0152  CLW/ES/3/0135  1209-11.439-044

SN	ITEM	CLW PL NO.	DRG/SPEC NO
(C)	(Group-3) Set of Bracket for WAP5 Set of Bracket  Set of Support  Oil Pump Bracket fixing	29615057 29610436 29615318 29615290 29615306 29612871 29615070 29530106	CLW/ES/3/0411 CLW/ES/3/0121  CLW/ES/3/0159 CLW/ES/3/0148
113	Door Assly. Window Assly.	29170280 29172028	CLW/MS/3/013 CLW/MS/3/014
114	Wind Screen Assly. Air Diffuser	29170291 29540021	CLW/MS/3/027 1209-08.430-181
115	Al. Chequarred Plate Al. pressed section Al. Sheets & Plates Al. Perforated sheet Cable tray cover Assly. Al. Roof Ladder Aluminium Inspection Cover for Floor Ventilation Ducting for WAP-5 Loco.	29170618 29170783 29400107 29175355 29170229 25606839  29475065	1209-09.331-039 CLW/MS/3/072 CLW/MS/3/075 CLW/MS/3/074 1209-08.130-167  CLW/MS/10/047
116 (A)	Drivers Desk (Bare)	29171143	CLW/MS/3/117
(B)	Duct Assly. for WAG-9, WAP-5 & WAP-7	29470067 29475041	CLW/MS/3/099 CLW/MS/10/048
(C)	General Arrangement of floor ventilation ducting	29470092 29470109	18 -021-0326
(D)	Junction Box Assly. & Body Side & Floor Secondary Member for WAG-9/WAP-7	29200052	18051-00176
	Built up steel section		1209-08.430-029 1209-08.430-030 1209-08.330-033
	Steel chequarred plates Step Assly. Step Arrangement(WAP-5)	29170266 29120202 (MINOR) 29125110	CLW/MS/3/077 1209-06.242-008 IA011-00321
	Foot Step Assly.(WAG-9) Merchant Flat bars V/F (For Cab, Sidewall & RooQ Platform Assly.  Grill Assly.(Protection Grill for Wind Screen)	29120196  29125078 29170898  29175483 29175483	CLW/MS/3/103  CLW/MS/3/106 18081-00421 CDD-HL-E72-031 03/1/38/99 Alt.1

SN	ITEM	CLW PL NO.	DRG/SPEC NO
117	Coduits of Cables Wire Rope Safety Sling for TM 6FRA 6068 for WAG-9H/ WAP-7 Safety Sling for Hanger Lever for WAP-7  Stool for WAP-5 Loco     Bracket Outer Bracket Inner for WAG-9 Loco Steel Chequered Plate Doorway Surround (Lower)	29601009 29120135 29140201  29140237  29175380    29120366  29170266 29170710	1209.02-426-126, 129, 132, 134 1209.02-327-083   1210-03.125-002 IA036-00047 IA036-00043, IA031-00035, IA032-00029 1209-02.341-004 , 1209-02.341-003 CLW/MS/3/077 18091-00024
	Group-II  Air Outlet Assly.	294050020  29771043  29125157  29741105  29171015	1209-10.337-081 IA106-00507 IA066-00095 IA066-00098 03/4/20/2 Alt.1 CDD-HL-P71-002A 18026-0106 1209-07.232-022 18031-0325 18031-0327
	Capacitor Box Assly		
	Sand Box Assly for WAG-9 & WAP-7 Flange Set of Fabricated Items with Hotel Load Converter for WAP-7 Loco.  Mounting Bracket for WAG-9H/WAP-7 Loco		

SN	ITEM	CLW PL NO.	DRG/SPEC NO
	<p>Group- ill Door Latch Assly Channel Unistruct Din Rails</p> <p>Clips-Pneumatic items Clamps-Pneumatic items Protection Plate Assembly for WAG-9/WAP-7 (Set of Protection Plate for WAG-9/WAP-7)</p> <p>Shim and Pad (06 Items)</p> <p>Set of Accessory for Hand Brake Arrangement for WAP-7 Loco. Hinge for WAG-9/WAP-7 Loco</p>	<p>29170084 29480127 29101062</p> <p>29210094 29215080</p> <p>29210010 29235078</p> <p>29180053</p> <p>29250511</p> <p>29140286</p> <p>29175239</p>	<p>1209-09.233-018 CLW/MS/3/070 CLW/MS/3/058</p> <p>1209-01.413-013 1209-18.406-087 1209-18.406-094 CLW/MS/3/059 CLW/MS/10/045</p> <p>18011-00479 IB076-00259 IB016-00451 IB016-0476 1209-0.9.433-080 05/4/59/15 Alt-3, 05/4/59/22 Alt-22, 05/4/59/80 Alt-8</p> <p>1209-00.240-201 ref.10</p>
118	Roof Assly. complete for WAG-9/ WAP-7	29170941 29175343	<p>CLW/MS/3/154 18 101-00124 IB 101--00125 IB 101-00122</p>
119	Side Wall Assly for WAG-9 / WAG-9H/ WAP-7	29171040	<p>CLW/MS/3/154 IBO31-00275-1 (RH) 18031-00276-1 (LH) 1209-03.035.187 (For WAG-9H along with above)</p>
120	Cab Assly Complete for WAG-9/WAP-7	29170953	<p>CLW/MS/3/154 18 081-00313, 00479,00467, 00473; 1209-10.237-213; 1209-08.231-074;</p>
121	Head Stock Assly. Complete for WAG- 9/9H/ WAP-7 Loco.	29120240 29120251 29125182	CLW/MS/3/154 18 021-00313
122	Centre Sill Assly. Complete for WAG- 9/9H/WAP-7 Loco	29120299 29120317	CLW/MS/3/154 1209-02-126-012
123	Centre Sill Assly. Complete For WAP-5	29125133	IA-021/00045
124	Central Under Frame Assly. for WAP-5 Loco.	29125200	CLW/MS/3/154
125	Central Underframe Assly For WAG-9 & WAP-7	29120305	18021-00254
126	Side Sill Assly. for WAP-5	29125145	CLW/MS/3/154 IA021-00026, IA021-00043, IA021-00044
127	Side Sill Assly. for WAG-9 I WAP-7	29171052	18021-00346, 18021-00374, 18021-00376
128	Bolster Assly. for WAG-9H/WAP-7	29100460 29100471	CLW/MS/3/154 IA021-00390, 18021-00350
129	Bolster Assly. for WAP-5	29107568	CLW/MS/3/154 IA021-00006,

SN	ITEM	CLW PL NO.	DRG/SPEC NO
130	Side Wall Assly for WAP-5	29175320	CLW/MS/3/154 1210-03.135.001 1210-03.135.002 1210-03.135.065 1210-03.135.066 1210-03.135.045 1210-03.135.046 1210-03.135.047
131	Head Stock Assly. for WAP-5	29125182	CLW/MS/3/154 IA021-00003,
132	Roof Hatch Assly for WAP-5 Loco	29175343	CLW/MS/3/154
133	Complete Shell Assembly for WAG-9/9H/WAP-7	29171027 29171064	CLW/MS/3/152 ALT.10
134	Under Frame Assly. for WAG-9/9H Loco	29120329	CLW/MS/3/154 18021-00317, 18021-00380
135	Spares for AM 12 or IR 01 or PAN 01 type Pantograph		RDSO/2008/EL/SPEC/0066 Rev.'0' dated 20.6.2008 and Amend 1 Dtd 31.12.08
136	Transformer Repair/rehabilitation		
137	Pivot Ring & Housing Ring along with Locking Plates for WAG-9/ WAP-7/ WAG-9H	29100392	1209-01.413-025, 1209-01.313-004
138	Spacer	29230100	1209-01.418-004
139	All Steel Lock Nut	29310088	CLW/MS/3/089
140	Necked down bolt	29300848	IA016-00270 IA016-00271 1209-01.315-006_01
141	Damper (For WAG-9/WAP-5)	29040012	CLW/MS/3/009 Alt. 3( WAG-9) CLW/MS/10/005A It. 1 (WAP-5)
142	Helical Spring for 3-Phase Locos	29041041 (WAG-9HC) 29045034 (WAP-7) 29045022 (WAP-5)	CLW/MS/3/SPEC/ ELDOBOGIE/004Alt. 1
143	Set of Connector	29615460 29615471 29615483 29613012 29612135 29612147 29612123 29612159 29612160 29615495 29615501 29615513	CLW/ES/3/0124
144	Set of Cable Gland	29611532	CLW/ES/3/0129 Alt.D CLW/ES/3/SK-1/0129 CLW/ES/3/SK-2/0129
145	Set of Fabricated items for WAG9HC type locomotive	29741130	CDD-HL-P73-020 Alt.2, CDD-HL-P73-021 Alt.4, 1209-02.127-421, 1209-02.127-422 Ref.3, 1209-02.127-422 Ref.10, CDD-HL-P72-009 Alt.2 Ref.1 , CDD-HL-P73-014 Alt.1
146	Large Fabricated items (Aluminum) CATEGORY -STRUCTURAL Door Assembly CAB SIDE DOOR FOR WAG-9HC & WAP-7 Locos , M/C ROOM DOOR FOR WAG/9HC,WAP/7 & WAP/5 For Cab side door LH &RH	29170916 29170928 29170280	CLW/MS/3/013 ALT.4

SN	ITEM	CLW PL NO.	DRG/SPEC NO
147	Cab Assy. Complete for WAP-5	29175379	CLW/MS/3/154 Alt-2
148	Set of Harnessed Cable	29600420 29600418	CLW/ES/3/0646
149	Contactor Filter On-Off and adaption	29960022	CLW-ES-3-0086 ALTERATION-C
150	Contactor for Discharging Resistor	29890032	CLW/ES/3/0088 ALT. A
151	Microprocessor based Energy cum Speed monitoring unit for Electric Locomotives	29200040	ELRS/SPEC/SPM/0002 Rev.4,
152	Fire Detection Equipment	29610047	CLW/ES/3/0057
153	Key Multiplier Set	29380030	CLW/ES/3/0049 ALT. F.
154	Transformer Module Primary Voltage	29690092	CLW/ES/3/0083 ALT. B.
155	Buzzer for Vigilance/ Fire Alarm	29610035	CLW/ES/3/0078 ALT.-C.
156	Rotary switch for cab heater	29700012	CLW/ES/3/0108 ALT. A.
157	Cab Activating Key Switch	29701030	CLW/ES/3/0074
158	Key Switch Simulation in SB-1	29700127	CLW/ES/3/0079 ALT. A.
159	Foot Switch for Sanding, Vigilance & Independent Brake	29700085	CLW/ES/3/0032 ALT. G.
160	Spring Loaded Switch for 5 items (Instrument Lighting)	29700036	CLW/ES/3/0075 ALT. B
161	Rotary Switch Configuration, Rotary Switch Bogie Cut-out in SB-1 and Rotary Switch Failure mode Operation	29700292	CLW/ES/3/0068 ALTERATION-C
162	UIC Socket	29612366 29610280	CLW/ES/3/0047 ALT. E.
163	Polypropelene Components	29170771	CLW/MS/3/065 Alt.10
164	Sealing Rubber	29250559 29255016	CLW/MS/3/034
165	S.S. Tube	29120068 29120056 29120070 29070235	CLW/MS/3/029 Alt.10
166	S.S. Pipe Fittings	29230135 29230342 29230380	CLW/MS/3/053 Alt.21
167	Set of Pipe Saddle	29210549	CLW/ES/3/0038 Alt - F
168	Set of Cable Ties	29610473	CLW-ES-3-0131
169	Set of Base for Cable Ties	29610886	CLW-ES-3-0131
170	Set of Plastics	29610308	CLW/ES/3/0140
171	Set of Cable Conduit	29600510	CLW/ES/3/0127 Alt.J,
172	Grommet for Wiper Pipe	29250432	1209-03.330-240

SN	ITEM	CLW PL NO.	DRG/SPEC NO
173	Set of Non Metallic S.D. Sleeve , Adhesive Sleeve, Printable S.D Sleeve	29610333 29610503 29610515 29610527 29610539 29610540 29610552 29610564 29610576 29610588 29610590 29610618 29610620 29610631 29610667 29610679 29610680 29610692 29611295 29610643	CLW/ES/03/0154
174	Brass Pipe Fittings	29230147 29230354 29480152	CLW/TS/99/CF/5 alt.8
175	Auxiliary compressor Hose/ Set of Metallic Hoses (Braided) / Metallic Hoses (Braided)	2100557	CLW/ES/3/0309
176	Braided Protection Sleeve (EIT)	29720436 29720448 29720450 29720461 29720485 29720497 29720503 29720515 29720527 29720965	CLW/ES/03/0154
177	Oil Pump with motor for Transformer (wound with corona Resistance Wire)	29530027	CLW/ES/3/0106 RDSO/SPEC/E-10/3/09 motor with Amendment No 1 to 6
178	Set of Roof Bar	29810115	"CLW/ES/3/0063/G[G9/P7] CLW/ES/3/0036/D[P5]"
179	Set of Terminal Block (Wago type)	29612111	CLW/ES/3/0644/ Alt. G
180	Primary Current Transformer	29690043	CLW/ES/3/0013/B
181	Resistor Harmonic Filter for WAG-9/WAP-7	29650033	CLW/ES/3/0015/B
182	Discharging Resistor for capacitor bank	29650057	CLW/ES/3/0089
183	Set of wire wound resistance	29650161	CLW/ES/3/0014/H
184	Pantograph Insulator	29810127	CLW/ES/AC/I-1/K
185	Roof Line Insulator	29810139	CLW/ES/AC/I-1/K
186	Earthing Switch for VCBs	29700073	CLW/ES/3/0010/ALT-D

SN	ITEM	CLW PL NO.	DRG/SPEC NO
187	Set of Bus Bar"	29615525 29615537	CLW/ES/3/0118/M
188	Set of Screw type terminal block	29615331	CLW/ES/3/0645/F
189	Earth Return Brush with Brush Holder Assy.	29620016	CLW/ES/3/0017/ Alt-D
190	Load Resistor to Primary Voltage Transformer	29650010	CLW/ES/3/0024/A
191	Flat wire resistor for BUR 1/2	29650136	CLW/ES/3/0464/B
192	Earthing Choke	29610310	CLW/ES/3/0018
193	Earth Fault Relay	29660014	CLW/ES/3/0090
194	Blocking Diodes	29790013 (for DIBLO 5) 29790025 (For DIBLO 8)	CLW/ES/3/0055
195	Minimum Voltage Relay in SB 1	29660026	CLW/ES/3/0060
196	Transformer Tranella-15 (Aux. Transformer)	29690079	CLW/ES/3/0098
197	Oil Cooler Radiator for Converter/Transformer	29470031	CLW/ES/3/0102
198	Pressure Sensor Oil Circuit Transformer and Differential amplifier to Sensor Oil Circuit	29500047 29500059	CLW/ES/3/0035
199	Temperature Sensor Oil Circuit Transformer	29500035	CLW/ES/3/0033
200	High Voltage Cable with Plug	29600406	CLW/ES/3/0251, Rev-1 December 2006
201	Set of Metallic Pipe for Main Transformer	29230044	CLW/ES/3/0253
202	Ball Valve G 3/4"	29162038	CLW/ES/3/0117
203	Standard Hardware Kit	29941039	4TMS.096.075, Rev-1, Alt-1
204	Motor for Scavange Blower to TM/Oil cooling (wound with corona resistance wire)	2944011	CLW/ES/3/0021 RDSO Spec No. E-10/3/09 Motor with amendment no. 1 to 6,
205	Roof Mounted Air Conditioning System without Trough	29811028	RDSO/2007/EL/SPEC/0055 REV 2,
206	3-Ph TM type 6FRA6068 (with Sch-I & Sch-II Rotor)	29941064 29940606	0TWD.096.001 Alt-3; 4TMS.096.080 Rev-1, Alt-4; 4TMS.096.081 Rev-1, Alt-3
207	Complete Stator Assly for 3-phase TM type 6FRA 6068	29940989	0TWD.096.002 Alt-4; 4TMS.096.089, Alt-1
208	Complete Rotors for 3 ph T.M. type 6FRA 6068 (Sch-I & Sch-II)	29941027 29940758	SKEL-4882; SKEL-4881; RDSO/2007/EL/SPEC/0060, Rev-0; RDSO/2008/EL/SPEC/0061, Rev-2
209	Stator & Rotor Stamping of three Phase TM type 6FRA6068 & 6FXA7059	29940450 29941374 29945318	SKEL-4889; SKEL-4888; SKEL-4890; SKEL-4887; 1TWD.096.015, Alt-7; 1TWD.096.010, Alt-10; 2TWD.097.002, Alt-5; 1TWD.097.001, Alt-4; 4TMS.096.053, Rev-2, Alt-11
210	FLAT HOSE GI Gefl	29721088 29720710	4TMS.096.101, 4TMS.096.102
211	POLYESTER GLASS SILK TAPE	29720722	4TMS.096.088 Rev 1
212	MICA GLASS FABRIC TAPE	29721120 41080026	4TMS.096.098, 4TMS.096.105
213	POLYAMIDE (NOMEX) PA VLIES 1	29721118	4TMS.096.028 Rev 1
214	GLASS FIBRE CORD	29721052 29721260 29721271	4TMS.096.100
215	STATOR SLOT WEDGE	29942019 299452	4TMS.096.103 , 4TWD.096.050 ALT 3, 4TWD.097.017 ALT 1

SN	ITEM	CLW PL NO.	DRG/SPEC NO
216	AUTO ADHESIVE TAPE	29721131 29721143 29721155	4TMS.096.097 ALT 1
217	ADHESIVE GLASS CLOTH TAPE	29720734 29720746	4TMS.096.026 Rev 1
218	POLYESTER FILM (Y-P) 2 mil Thk.	29720576	4TMS.096.104
219	GLASS TAPE (EGT)Size : 0.18 x 25 mm	25608125	4TMS.095.016 Rev 1
220	TERMINAL BOARD ASSLY.(Complete)	29942123	4TMS.096.025 Rev 1, 2TWD.096.019 ALT 1
221	Associated components of Machined stator assly. (11 items)	29941003	4TMS.096.068 Rev.2 Alt.1
222	Set of Stator Chamber DE & NDE (CNC Machd.)	29940916	4TMS.096.059 Rev.1
223	Terminal Box Cover Assly.	29940163	4TMS.096.055 Rev.1
224	Tension Bar (Modified)	29940620 29940631 29945215 29945227	4TMS.096.055 Rev.1
225	Accessory Bar	29940643 29940655	4TMS.096.055 Rev.1
226	Cross Piece (Modified)	29940667	4TMS.096.055 Rev.1
227	Key	29380054 29945070	4TMS.096.055 Rev.1
228	Set of Stator Chamber & associated components 14 items	29945422	4TMS.096.068 Rev.2 alt.1,4TMS.096.059 Rev.1TMS.096.055 rev.1,
229	Half ring	29942100	4TMS.096.055 Rev.1
230	Rotor End ring For Sch-II	29941350	4TMS.096.068, REV-2 Alt-1/SKEL-4732 Alt-1
231	End ring Plate For Sch-I	29941325	4TMS.096.068, REV-2 Alt-1/SKEL-4739, Alt-3
232	Rotor End ring (Modified)CNC machined for 6FXA7059	29945203	4TMS.096.068, REV-2 Alt-1/2TWD.097.013, Alt-4
233	Acessories for 3-phase stator chamber for 6 FRA 6068	29941260	3TWD.096.167 Alt-5
234	Machined Stator assembly	29940990	4TMS.096.070 REV-2, Alt-1/1TWD.096.102, Alt-14
235	Rotor Shaft(Rough Machined) for 6 FRA 6068 & 6 FXA 7059	29942135 29945069	4TMS.096.051, REV-2 /3TWD.096.073, Alt-8; 3TWD.097.005,Alt-4
236	Rotor Shaft(Finish Machined Machined) for 6 FRA 6068	29945409	4TMS.096.071, REV-1, Alt-1/1TWD.096.009,Alt-1
237	Winding wire Flat FI Cu Fo 13 CR Bare size 4.00 x 2.00 &Insulated 4.23 x 2.23 mm,	29940370	4TMS.096.099 Alt.2
238	Connection complete with clamping plate (without insulation) for 3 phase TMType 6FRA 6068 & 6FXA 7059	29940461 29945367	1TWD.096.014 Alt.-5; 1TWD.097.007 Alt.-4 / 4TMS.096.062 Alt.-5
239	Shrink ring (Modified) for 3 phase TMType 6FXA 7059	29945112	4TWD.097.023 Alt.-2 / 4TMS.096.063 Rev.1
240	Active Speed Sensor for 3 phase TM	26940966	4TMS.096.079,REV-1
241	Temperature Sensor Assly(Complete)	29940552	4TMS.096.087,REV-1
242	Completely Assembled Temperature Sensor for 6FRA 6068 & 6FXA 7059	29940618 29940540	4TMS.096.085,REV-2
243	Standard Hardware Kit	29941039	4TMS.096.075, Rev 1, Alt 1