

## List of Electric Loco Items having less than three Indigenous approved sources

SN	Part no.	Item Description	Specification	Indigenous
1	29741087	2X500KVA IGBT Based Hotel Load Converter	CLW/ES/03/IGBT/0490	Medha Servo Drives Pvt. Ltd./ Hyderabad Siemens Ltd./ Nasik
2	29680025	Battery (Ni-Cd)	CLW/ES/3/0030	HBL Power Systems Ltd / Hyderabad Saft India Private Limited/ Bangalore
3	29731021	High Voltage Bushing	CLW/ES/3/0052	Elastimold (India) Private Limited (M/s Elliott Inds. Inc./U.S make Bushing )
4	29750052	Surge Arrester	CLW/ES/3/0016	CG Power and Industrial Solutions Limited/ Mandideep
5	25880068/ 29880038	Pantograph for passanger loco	CLW/ES/P-5Alt.'F	Contransys Pvt. Ltd. / Kolkata (Type IR-03H) Schunk Metal & Carbon (I) Ltd./ Banglore (Type WBL-85)
6	29695028	Primary Voltage Transformer	CLW/ES/3/0009	
7	29610280	UIC - Socket	CLW/ES/3/0047	
8	29620016	Earth Return Brush With Brush Holder Assembly	CLW/ES/3/0017	Chanda & Chanda Engineers/ Howrah Chandra Udyog / Howrah
9	29615112	Set of Disconnection Hotel Load	CLW/ES/3/0434	Precision Electro Engg./Howrah
10	29690043	Primary current Transformer	CLW/ES/3/0013	BMC Electroplast Pvt. Ltd./ Aurangabad M. B. & Company/ Howrah
11	29610310	Earthing Choke	CLW/ES/3/0018	Shivalik Electro Components Pvt. Ltd. Precesion Electro Engineering/Howrah
12	29710212	Circuit Breaker Battery	CLW/ES/3/0050	ABB India Limited/ Bangalore
13	29618411	SET OF RATING PLATE OTHER THAN PANEL SECTION	CLW/ES/3/0252	Ilka Metal Industries (P) Ltd /Kolkata
14	29611532 29611568 29611570	Cable Gland PG 21 MSNI	CLW/ES/3/0129	Gland Mech Industries/Kolkata Lapp Cable/Bangalore
15	29618393	Set of Cable Tie for WAP-7	CLW/ES/3/0131	Black Burn & Co. Pvt Ltd /Kolkata
16	29210549	Set of Pipe Saddle consisting of following 3 items.i) Pipe Saddle 16 PP; 05 nos.ii) Pipe Saddle 20 PP; 06 nos.iii) Pipe Saddle 30 PP; 06 nos.	CLW/ES/3/0038	P.N. Plastic Industries / Kolkata
17	29720424	Fire Resistant Cement	CLW/ES/3/0168/2	Pacific Chemical/Mumbai
18	29615513 29615495	Set of Connectors	CLW/ES/3/0124	Amphenol Interconnect India Pvt. Ltd./ Pune ** PPS International/ Gautambudh Nagar
19	29511008	Main Compressor With Mounting Accessories Along With Motor	RDSO/2018/EL/SPEC/ 0137 Rev-0	M/s Elgi M/s Faveley
20	29610400	SET OF METALLIC HOSE FOR WAG-9	CLW/ES/3/0309	Teflex (India) Dewas Hydroquip Pvt. Ltd.
21	25513000/ 29511010	Auxiliary Compressor (MCPA)	CLW/ES/3/0197	Air Tech Machinery Ltd Elgi Equipment Ltd
22	29400077 29400089 29210227 29215122	Stn. Steel Hardware Items	CLW/MS/3/040 CLW/MS/10/053	Kundan Industries Ltd. Agarwal Fastener Pvt. Ltd.
23	29400120	Misc. Hardware Items (Elect)	CLW/ES/3/187	Kundan Industries Ltd. Agarwal Fastener Pvt. Ltd.
24	29720760	Sikaflex	CLW/ES/3/0175	Sika India Pvt. Ltd. Henkel Adhesives Technologies India Pvt. Ltd.
25	29230160	Corrugated Flexible Hose	1209 -11.344 - 051	Jayshree rubber Javimins
26	29721027	ABS Solvent Cement	CLW/ES/3/0167	Pacific Chemicals
27	29230093	Plug (steel)	CLW/MS/3/064 CLW/MS/10/046	Super Products B.K. Industries
28	29100203	Spheri Block	RDSO/2007/EL/ Spec /051	NIL
29	29100010	Elastic Ring	RDSO/2007/EL/ Spec /053	Avadh Rail Infra Ltd/ LKO Sequoia Safety Product Pvt. Ltd.,Ghaziabad
30	29310088	F.S.All Steel Lock Nut	CLW/MS/3/089 (Rev-1 April 2007)	

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31	29101074	Chain	CLW/MS/3/118 1209-01.413-012 1209-01.315-019 1209-18.406-008	Indian Chain Pvt Ltd
32	29300848	Necked Down Bolt	1209-01.315-006 IA016-00270 IA016-00271	C S Engineers
33	29100392 29100379 29100410 29100434	Pivot Ring & Housing Ring along with Locking Plates	i) 1209-01.313-005 & 004 ii)1209-01. 413 -025	Tarudeep Enterprises
34	29170977	Fire Extinguishing System 22.5 kg. CO2 with accessories	CLW/MS/3/108	Fire Shield Engg. Equipment/KOL
35	29721167	Fibre Glass Insulation Kit	CLW/MS/3/015	Lloyd Insualtion (Ind) Ltd /KOLKATA Capex /
36	29250559	Sealing Rubbers	CLW/MS/3/034	Pulsar Rubber National Engg. Industries Ltd.
37	29130074	H.T TIGHT LOCK TRANSITION CENTRE BUFFER COUPLER	SKDL-3430	Faiveley Transport Rail Technologies India Limited/, Hosur Frontier Alloy Steels Pvt. Ltd./Kanpur Dehat
38	29130086	DRAFT GEAR WITH ELASTOMER PADS FITTED WITH H-TYPE TIGHT LOCK	MP-0.41.00.06(Rev 00)	Faiveley Transport Rail Technologies India Limited/, Hosur Frontier Alloy Steels Pvt. Ltd./Kanpur Dehat
39	29530027	Oil Pump with motor for Transformer	CLW/ES/3/0106 RDSO/SPEC/E-10/3/09 (motor)	Flowtech Pumps & Motors Samal Harand of India Pvt.Ltd
40	29650010	Load Resistor to Primary Voltage Transformer	CLW/ES/3/0024	Resitech Electrical Pvt. Ltd. Elecoss Engineers Pvt. Ltd
41	29470031	Oil Cooler Radiator for Converter/Transformer	CLW/ES/3/0102	Apollo Industrial Corporation Leel Electricals Limited (Using "No flux Vacuum Brazing Process" from Haridwar Unit)
42	29162038	Ball Valve G 3/4"	CLW/ES/3/0117	S.K. Engg. Enterprise Recon Engineering Co. (Pvt.) Limited
43	29500047 29500059	Pressure Sensor with differential amplifier	CLW/ES/3/0035	Troxex India Pvt. Ltd Danfoss Industries Pvt Ltd (for Pr. Sensor only)
44	29500035	Temperature Sensor Oil Circuit Transformer	CLW/ES/3/0033	Troxex India Pvt. Ltd. Florican Enterprises
45	29700012	Rotary switch for cab heater	CLW/ES/3/0108	Patra & Chanda Mfg. & Engg. (India) Pvt. Ltd.
46	29700073	Earthing Switch for VCB	CLW/ES/3/0010	Patra & Chanda Mfg. & Engg. (India) Pvt Ltd. Autometers Alliance Ltd
47	29700085	Foot Switch for Sanding, Vigilance & Independent Brake	CLW/ES/3/0032	Woama Electronics Chanda & Chanda Engineers
48	29810127	Pantograph Insulator	CLW/ES/3/0007	BHEL/Bangalore Insulators and Electrical Company.
49	29810139	Roof Line Insulator	CLW/ES/3/0051	BHEL/Bangalore Insulators and Electrical Company.
50	29610886	Set of Base for Cable Ties	CLW/ES/3/0120	Black Burn & Co.Pvt. Ltd. P. N. Plastic Industries
51	29610023	Head Light lamp	CLW/ES/3/0655	
52	29610461	Lamp Driver's Cab Lighting & Corridor Lighting	CLW/ES/3/0041	Krishna Engg. Works Precision Electro Engineering
53	29612846	Hotmelt Tape	CLW/ES/3/0161	
54	29610904	Scotch Danger Caution Tap	CLW/ES/3/0161	PRS Permacel
55	29618423 29611465	Set of Copper Plate	CLW/ES/3/0452	Precision Electro Engineering Ilka Metal Industries (P) Ltd.
56	29725148	Sealing adhesives	CLW/MS/3/Bogie/005 Alt-2	Henkel Adhesives Technologies India Pvt. Ltd. Anabond Limited

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57	29040012	Damper (For WAG-9/WAP-5)	CLW/MS/3/009 1209-01.215-014 (for WAG-9)	Knorr-Bremse India Pvt. Ltd. Escorts Limited
58	29105043	Drive Assembly Components	CLW/MS/10/0003	Kharagpur Metal Reforming Industries Pvt. Ltd. Kaypee Equipments Pvt. Ltd
59	29041041 29045034	Helical Spring for 3- Phase Locos	CLW/MS/3/SPEC/ELD O-BOGIE/004 Alt-1 1210-01.115-007 1210-01.115-010 IB011-00842 (item-1 &3) IB011-00843 (item-1 &3)	G.B.Spring (P) Ltd. Frontier Springs Ltd.
60	29230100	Spacer	1209-01.418-004	Tirupati Engg. Works Radha Engg. Works
61	29170242	Door Catch Assly	1209-09.433-019	C.S Engineers P.N. Plastic Industries
62	29170771	Polypropelene components	CLW/MS/3/065	P.N. Plastics Industries
63	29120070 29070235 29120032 29120068 29070211 29070223	S S Tube	CLW/MS/3/029 CLW/MS/10/023	Heavy Metals & Tubes (India) Pvt. Ltd.
64	29070041 29230111 29230366 29230378 29230380 29230135 29230433 29230342 29230378	S S Pipe fitting	CLW/MS/3/053,	Fluid Controls Private limited
65	29771031	Capacitor for Machine Room Blower (22 micro farad)	CLW/ES/3/0097	Yash Capacitors Pvt. Ltd
66	29230147 29234967 29234979 29230354 29480152	Brass Pipe fittings	CLW/TS/99/CF/5, Alt-8	Fluid Controls Private
67	29360043 29360079	Pop Rivet /BIFURCATED RIVETS POM	CLW/MS/3/091 CLW/ES/3/182	P.N. Plastic Industries Alfred Engineering Industries