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1. AUXILIARY MACHINES & ACCESSORIES OF MACHINE ROOM:

Note:- (1) Approved sources of RDSO for respective motors can also quote for complete blower assembly along with motor, in that case respective blower is to be procured from CLW's approved sources. (2) In either case of participation, if one or both of the approved sources (the participating firm and the firm whose motor / blower is quoted by participating firm) is in Part-II category, the order may be placed considering status as Part-II. If both the firms are in Part-I category, the order should be placed considering status as Part-I.

1	Air Compressor (Main)	N/0/0071	CLW/ES/3/0100	Ref. RDSO's approved vendor list.					
2	Air Compressor (Auxiliary)	N/0/0072 (MAJOR)	CLW/ES/3/0197	• SAB WABCO/ Sweden	S-40	• Air Tech Machinery Ltd./ Coimbatore • Elgi Equipment Ltd./ Kol	A-9 E-15		
3	Blower for Oil Cooling Unit with Casing	P/0/0144 (MAJOR)	CLW/ES/3/0023	• Behr Industriechnik GmbH Co./ Germany (Through PPS International, Code-P-42)	B-5	• ORIENT FANS /Kol. • Stesalit • RP Machine Tools • Air Control & Chem. Engg. • Daulat Ram	O-3 S-33 R-16 A-27 D-2	• Bharat Bijlee Ltd./Cal • T. RAD / Italy	B-8 T-8
4	Blower for Machine Room	P/0/0132 (MAJOR)	CLW/ES/3/0020	• ABB Flakt Industri AB /Sweden	A-3	• ORIENT FANS /Kol. • G.T.R. Co. (P) Ltd. / Cal • Flakt India /Kol. • ACCEL • Samal Harand • RP Machine Tools	O-3 G-1 F-7 A-27 S-7 R-16		
5	Blower Scavange for Traction Motor and Oil Cooler	P/0/0133 (MAJOR)	CLW/ES/3/0021	• Flosep/South Africa • Samal Harand	F-8 S-7	• Flakt India/Kol. • RP Machine Tools	F-7 R-16	• ACCEL • GTR/Kol	A-27 G-1
6	Blower Scavange for Machine Room	P/0/0134 (MINOR)	CLW/ES/3/0022	• Flosep/South Africa	F-8	• RP Machine Tools • ACCEL • Elgi Electric/ Coimbatore • Samal Harand	R-16 A-27 E-14 S-7	• GTR/Kol	G-1

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7	Blower for Traction Motor	P/0/0131 (MAJOR)	CLW/ES/3/0019	<ul style="list-style-type: none"> • ABB Flakt Industri AB /Sweden • ORIENT FANS /Kol. 	A-3 O-3	<ul style="list-style-type: none"> • Flakt India/Kol. • ACCEL • RP Machine Tools 	F-7 A-27 R-16	<ul style="list-style-type: none"> • Bharat Bijlee Ltd./Cal • Elgi Electric/Coimbatore 	B-8 E-14		
8	Motor for Machine Room Blower	P/0/0132 (MAJOR)	CLW/ES/3/0020	Ref. RDSO's approved vendor list.							
9	Motor for Oil Cooling Unit	P/0/0144 (MAJOR)	CLW/ES/3/0023								
10	Motor for Scavange Blower (TM)	P/0/0133 (MAJOR)	CLW/ES/3/0021								
11	Motor for Scavange Blower (MR)	P/0/0134 (MINOR)	CLW/ES/3/0022								
12	Motor for Traction Motor Blower	P/0/0131 (MAJOR)	CLW/ES/3/0019								
13	Motor for Compressor	N/0/0071 (MAJOR)	CLW/ES/3/0100								
14	Oil Pump Converter	P/0/0145 (MAJOR)	CLW/ES/3/0107							<ul style="list-style-type: none"> • Plumettaz S.A/SWZ • Flowel Pump/B'lore • Samal Harand/Kol. 	P-11 F-9 S-7
15	Oil Pump Transformer	P/0/0143 (MAJOR)	CLW/ES/3/0106	<ul style="list-style-type: none"> • Plumettaz S.A/SWZ • Flowel Pump/B'lore • Samal Harand/Kol. 	P-11 F-9 S-7						

2. MACHINE ROOM / POWER EQUIPMENTS & ACCESSORIES:

16	Traction Converter	P/0/0001 (MAJOR)	CLW/ES/3/0001	<ul style="list-style-type: none"> • The National Radio & Electronics/ Mumbai • Bombardier India • BHEL/New Delhi 	N-2 B-18 B-14	<ul style="list-style-type: none"> • Crompton Greaves Ltd./Nasik 	C-4		
17	Auxiliary Converter Box with Control Electronics	P/0/0002 (MAJOR)	CLW/ES/3/0002	<ul style="list-style-type: none"> • The National Radio & Electronics/ Mumbai • Bombardier India • BHEL/New Delhi 	N-2 B-18 B-14	<ul style="list-style-type: none"> • Crompton Greaves Ltd./Nasik • Autometers Alliance Ltd./Noida • Hind Rectifiers Ltd./Mumbai 	C-4 A-25 H-8		

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18	Central Electronics	P/1/0004 (MAJOR)	CLW/ES/3/0003	<ul style="list-style-type: none"> NELCO / Mumbai BHEL / Bangalore Bombardier India/ Vadodara 	N-2 B-13 B-18	<ul style="list-style-type: none"> CGL / Nasik 	C-4		
19	Blocking Diodes	N/0/0034 N/0/0035 (MAJOR)	CLW/ES/3/0055	<ul style="list-style-type: none"> B+Z Elektronik/SWZ Elesta Elektronik AG/SWZ 	B-1 E-13	<ul style="list-style-type: none"> Design Centre/ Kol 	D-4		
20	DC to DC Converter	N/0/0026 (MAJOR)	CLW/ES/3/0054	<ul style="list-style-type: none"> Melcher AG/SWZ Signitron Ind Pvt. Ltd. Design Centre/Kol 	M-5 S-42 D-4	<ul style="list-style-type: none"> M.B. & Co./Kol 	M-18		
21	Transformer tranela – 15	N/0/0120 (MAJOR)	CLW/ES/3/0098	<ul style="list-style-type: none"> Trafomee S.P.A/Italy Patra & Chandra Engg./HWH 	T-12 P-7	<ul style="list-style-type: none"> Cibimer / Kol. M.B.& Company 	C-16 M-18	<ul style="list-style-type: none"> Hind Rectifire Mani Electronic (Through Rayco/R-8) Pabitra Engg. Works/ Kol Shivalik Electro Components/24 Prgs. 	H-8 P-2 S-17
22	Earthing Choke	P/0/0135 (MAJOR)	CLW/ES/3/0018	<ul style="list-style-type: none"> Shivalik Electro Components Pvt. Ltd./ 24 Prgs.(N) Precesion Electro Engg./ HWH 	S-17 P-17				
23	Fire Detection Equipment	N/0/0037 (MAJOR)	CLW/ES/3/0057	<ul style="list-style-type: none"> Siemens/ Germany 	S-43	<ul style="list-style-type: none"> Troxel India/Kol 	T-14		
24	Fuse Auxiliary 415/110 V	N/0/0036 (MAJOR)	CLW/ES/3/0092	<ul style="list-style-type: none"> Ferraz/ France through Arihant Electricals, New Delhi (Indian Agent) 	F-2				
25	Key Multiplier set	P/0/0158 (MAJOR)	CLW/ES/3/0049	<ul style="list-style-type: none"> Scheron Ltd./SWZ Patra & Chandra Engg./ HWH 	S-14 P-7			<ul style="list-style-type: none"> Woama Electronics/ Kol AAL Patron Industrial Corporation, HWH 	W-4 A-25 P-8
26	Snubber Circuit	N/0/0096 (MAJOR)	CLW/ES/3/0067	<ul style="list-style-type: none"> Adtranz Daimler/SWZ Mechtronik AG 	A-7 M-19			<ul style="list-style-type: none"> Hind Rectifiers/ Mumbai 	H-8
27	Snubber Circuit to contactor auxiliaries	N/0/0069 (MAJOR)	CLW/ES/3/0202	<ul style="list-style-type: none"> Murr Elektronik Trading Co. Gmbh/Germany 	M-13				

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28	Surge Arrestor for Current Transformer	N/0/0090 (MAJOR)	CLW/ES/3/0085	• ABB Hochspannungstechnik AG/SWZ	A-4				
29	Earth Fault Relay Harmonic Filter/Auxiliary Converter	N/0/0067 (MAJOR)	CLW/ES/3/0090	• Krishna Engg. • Woama Electronics/ Kol • Patra & Chanda Engg.	K-9 W-4 P-7	• Design Centre/ Kol	D-4		
30	Maximum Current Relay in SB-1	N/0/0073 (MAJOR)	CLW/ES/3/0059	• Secheron Ltd./SWZ • Autometers Alliance Ltd./Noida	S-14 A-25				
31	Relay for Control Electronics On/ Off	N/0/0076 (MAJOR)	CLW/ES/3/0066	• Schneider Electric / France	S-44				
32	Minimum Voltage Relay In SB1	N/0/0074 (MAJOR)	CLW/ES/3/0060	• Mesuco AG/ Swz	M-16	• Design center	D-4		
33	Time Relay For VCB With Aux. Contacts Consisting Of (I) Contactor / Relay (1 No.) (ii) Time Delay Module (1 No.)	N/0/0077 (MAJOR)	CLW/ES/3/0064	• Schneider Electric/France	S-44				
34	Time Relay for Machine Room Blower Consisting of (I) Contactor / Relay (ii) Time Delay Module		CLW/ES/3/0012	• Schneider Electric/France	S-44				
35	Surge Arrestor For Hotel Load	N/2/0084 (MAJOR)	CLW/ES/3/0313	• ABB/ Swz	A-4				

3. RESISTANCES :

36	Discharging Resistor for Capacitor	N/0/0066 (MAJOR)	CLW/ES/3/0089	• Adtranz ABB Daimler-Benz Transportation Ltd./SWZ • Microelectrica Scientifica (throughHind Rectifiers Ltd) • ELECOS/ Kol	A-7 M-13 E-10			• Daulatram Industries • Stone India • RSI Switchgear	D-2 S-34 R-20
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37	Earthing Resistor of Aux Converter, Earth Fault Detection 415/110V & Control Circuit in SB-1, Harmonic Filter, Screen Train Bus in SB-1. Resistor of Head Light + Dimmer, Maximum Current Relay in SB-1 and Primary Current Transformer	P/0/0054 P/0/0053 P/0/0056 P/0/0050 P/0/0089 P/0/0052 P/0/0055 P/0/0049 (MAJOR)	CLW/ES/3/0014	<ul style="list-style-type: none"> Danothem Electronic A/S, Denmark Resistance India/Cal. 	D-1 R-11	<ul style="list-style-type: none"> RGE (Through Rayco Electro Enterprise, Kol / Code- R-8) 			
38	Load Resistor to Primary Voltage Transformer	P/0/0170 (MAJOR)	CLW/ES/3/0024	<ul style="list-style-type: none"> B + Z Elektronik AG/ SEWS Resitech Electricals Pvt. Ltd./ Kol. 	B-1 R-12	<ul style="list-style-type: none"> Elecos 	E-10		

4. TRANSFORMER & ACCESSORIES:

39	Main Transformer for WAG-9 Loco (6531 KVA)	P/0/0006 (MAJOR)	CLW/ES/3/0456	<ul style="list-style-type: none"> BT India / Vadodara BHEL/New Delhi Crompton Greaves Ltd./ Mumbai 	B-18 B-14 C-14	<ul style="list-style-type: none"> EMCO / Mumbai 	E-18	<ul style="list-style-type: none"> Areva / Vadodara High Volt Electricals Pvt. Ltd 	A-30 H-18
40	Main Transformer for WAP-5/WAP-7 (7475 KVA)	(MAJOR)	CLW/ES/3/0315	<ul style="list-style-type: none"> BT India / Vadodara BHEL/New Delhi Crompton Greaves Ltd./ Mumbai 	B-18 B-14 C-14			<ul style="list-style-type: none"> Areva / Vadodara High Volt Electricals Pvt. Ltd EMCO / Mumbai 	A-30 H-18 E-18
41	High Voltage Bushing	N/0/0001 (MEDIUM)	CLW/ES/3/0052	<ul style="list-style-type: none"> ABB/ Micafill/Swz 	A-53				
42	Set of Metallic Pipe for Main Transformer	P/0/0040 (MAJOR)	CLW/ES/3/0253			<ul style="list-style-type: none"> Ransal India / Kol Vikrant Engg. Works D'Ranflex / Bangalore 	R-6 V-2 D-18	<ul style="list-style-type: none"> Petro General Engg Works/Bhilai (MP) Bhartia Bright & Seamless Steel Ltd/Kol 	P-9 B-9

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43	Oil Cooler Radiator for Converter/Transformer	N/0/0065 (MAJOR)	CLW/ES/3/0102	<ul style="list-style-type: none"> • Tesio / Italy (Through New Kessler/NDLS,code N-10) • BEHR/ Germany • APOLLO / Mumbai 	T-8 B-5 A-21			<ul style="list-style-type: none"> • Standard Radiator • Perfect Radiator 	S-72 P-42
44	H.V. Cables (Termination Systems)	P/0/0079 (MAJOR)	CLW/ES/3/0251	RDSO controlled item.					
45	Ball Valve C 3/4"	P/0/0076 (MAJOR)	CLW/ES/3/0117	<ul style="list-style-type: none"> • Miba Armaturen AG/ Swz • S.K. Engg. Enterprise/HWH • Recon Engg. 	M-17 S-39 R-9	<ul style="list-style-type: none"> • Bhartia Bright & Seamless Steel/ Kol 	B-9		
46	Pressure Sensor with differential amplifier	N/0/0103 N/0/0104 (MAJOR)	CLW/ES/3/0035	<ul style="list-style-type: none"> • Baumer Electric AG /SWZ 	B-4	<ul style="list-style-type: none"> • Trolex India Pvt. Ltd./ Bangalore 	T-15	<ul style="list-style-type: none"> • Danfoss (Through Oasis) 	D-16
47	Temperature Sensor Oil Circuit Transformer	N/0/0122 (MAJOR)	CLW/ES/3/0033	<ul style="list-style-type: none"> • Almetra AG/ SEWS 	A-28	<ul style="list-style-type: none"> • Florican Enterprise • Trolex India Pvt. Ltd./ Bangalore 	F-16 T-15		
48	Primary Current Sensor & Current Sensor for Hotel Load		CLW/ES/3/0084 CLW/ES/3/0465	<ul style="list-style-type: none"> • LEM International SA / SWZ 	L-16			<ul style="list-style-type: none"> • ZHUZHOU Electric Loco research institute / China 	Z-4

5. UNDERFRAME EQUIPMENTS & ACCESSORIES :

49	Battery (Ni-Cd)	P/0/0008 (MAJOR)	CLW/ES/3/0030	<ul style="list-style-type: none"> • HBL Power Systems Ltd./ Hyderabad 	S-2	<ul style="list-style-type: none"> • AMCO SAFT India Ltd./ Bangalore 	A-12		
50	Earth Return Brush with brush holder Assly.	P/0/0130 (MEDIUM)	CLW/ES/3/0017	<ul style="list-style-type: none"> • Chanda & Chanda Engineers • Chandra Udyog 	C-6 C-5			<ul style="list-style-type: none"> • Mica Mold 	M-10

6. CAB EQUIPMENTS :

51	Transformer Module Primary Voltage	N/0/0119 (MEDIUM)	CLW/ES/3/0083	<ul style="list-style-type: none"> • M.B. Company • Krishna Engg. • Patra & Chandra Engg./ HWH 	M-18 K-9 P-7				
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52	Buzzer for Vigilance/Fire Alarm	N/0/0007 (MAJOR)	CLW/ES/3/0078	<ul style="list-style-type: none"> • Siemens Switzerland Ltd./SWZ • Siemens Switzerland • Precision Electro Engineering/ HWH • Woama Electronics /Cal 	S-18 P-17 W-4			<ul style="list-style-type: none"> • Krishna Engg. 	K-9
53	Cab Heater/Ventilation	P/0/0136 (MINOR)	CLW/ES/3/0109	<ul style="list-style-type: none"> • Precision Electro Engineering/ HWH • ELECOS • Esbee Corpn. • Escorts Ltd./Faridabad 	P-17 E-10 E-20 E-21				
54	Crew Fan	P/0/0015 (MINOR)	CLW/ES/3/0110	<ul style="list-style-type: none"> • GTR Company(P) Ltd./Kol. • Ebm Nadi International Pvt. Ltd./ Chennai 	G-1 E-4	<ul style="list-style-type: none"> • Fourlives Engineering/Kol. 	F-13		
55	Diagnostic Terminal	N/0/0123 (MAJOR)	CLW/ES/3/0080	<ul style="list-style-type: none"> • Pixy AG /SWZ • Design Centre /Kol 	P-40 D-4	<ul style="list-style-type: none"> • AAL 	A-25	<ul style="list-style-type: none"> • Stesalit Ltd. 	S-33
56	Driver's Display Unit	(MAJOR)	CLW/ES/3/0487			<ul style="list-style-type: none"> • Advanced Rail Controls Pvt. Ltd (ARC)/ B'lore 	A-49		
57	Master Controller	N/0/0056 (MAJOR)	CLW/ES/3/0031	<ul style="list-style-type: none"> • Secheron Ltd./SWZ • Stesalit Ltd. • Woama Electronics/ Kol 	S-14 S-33 W-4			<ul style="list-style-type: none"> • Gessmann / Gmbh (through Arihant) • Schaltban (Through Siemens) 	A-23 S-19
58	Voltmeter Battery	N/0/0125 (MINOR)	CLW/ES/3/0073	<ul style="list-style-type: none"> • Mesuco AG/SWZ • Galaxy Instruments • Sett & De/ Kol 	M-16 G-11 S-16	<ul style="list-style-type: none"> • Samadhan System/ Kol 	S-6		
59	Catenary Voltmeter	N/0/0124 (MINOR)	CLW/ES/3/0070	<ul style="list-style-type: none"> • Mesuco AG/SWZ • Galaxy Instruments • Sett & De/ Kol 	M-16 G-11 S-16	<ul style="list-style-type: none"> • Samadhan System/ Kol 	S-6	<ul style="list-style-type: none"> • Power Engg. Corp. 	P-21
60	Tractive/Braking Effort Meter	N/0/0057 (MINOR)	CLW/ES/3/0071	<ul style="list-style-type: none"> • Mesuco AG/SWZ • Samadhan System/ Kol • Galaxy Instrument • Sett & De/ Kol 	M-16 S-6 G-11 S-16				
61	Cab Air Conditioning System		RDSO/2007/EL/ SPEC/0055 (Rev 'O')			<ul style="list-style-type: none"> • INTEC Corp./HP • SIDWAL Refrigeration Ind. Ltd / NDLS • DRI / Hardwar 	I-21 S-73 D-2	<ul style="list-style-type: none"> • Fedders Liloyd Corp. / HP 	F-25

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62	Speedometer Indicator & Recorder cum Indicator with Pulse Generator	N/0/0087 (MAJOR)	CLW/ES/3/0028	Ref : RDSO's approved vendor list					

7. COMPLETE CUBICLE & SWITCHES :

63	Complete HB1/2, SB1/2 (without electronics), filter & F-cubicles along with all equipments and cabling.		CLW/ES/3/0191; 0192; 0193; 0194; 0195 & 0652			<ul style="list-style-type: none"> • Trolex India Pvt Ltd/B'lore • Tata Power Ltd/ B'lore • Hind Rectifier Ltd/Mumbi • Stesalit Ltd/ Kol 	T-15 T-2 H-7 S-33		
64	Rotary switch for cab heater	P/0/0147 (MAJOR)	CLW/ES/3/0108	<ul style="list-style-type: none"> • Schaltbau Aktiengesells Chaft / Germany • Spring AG (OEM) 	S-12 S-27			<ul style="list-style-type: none"> • Reliable Electronics 	R-14
65	Cab Activating Key Switch	N/0/0105 (MAJOR)	CLW/ES/3/0074	<ul style="list-style-type: none"> • Spring AG Apparatefabrik/SWZ • Patra & Chandra Engg./ HWH 	S-27 P-7				
66	Earthing Switch for VCB	N/0/0082 (MAJOR)	CLW/ES/3/0010	<ul style="list-style-type: none"> • Secheron Ltd./SWZ • Patra & Chandra Engg./ HWH 	S-14 P-7	<ul style="list-style-type: none"> • Autometer Alliance Ltd 	A-25		
67	Key Switch Simulation in SB-1	N/0/0100 (MAJOR)	CLW/ES/3/0079	<ul style="list-style-type: none"> • Switcher/Swz (Through Trolex India Pvt. Ltd, B'lore) 	S-45				
68	Push Button for Emergency Stop	N/0/0112 (MAJOR)	CLW/ES/3/0077	<ul style="list-style-type: none"> • Elan Schaltelemente Gmbh/ Germany 	E-7			<ul style="list-style-type: none"> • Hotline Switchgear 	H-14
69	Foot Switch for Sanding, Vigilance & Independent Brake	N/0/0080 (MAJOR)	CLW/ES/3/0032	<ul style="list-style-type: none"> • Spring AG Apparatefabrik/SWZ • Woama Electronics/ Kol 	S-27 W-4	<ul style="list-style-type: none"> • Chanda & Chanda Engg./ HWH 	C-6	<ul style="list-style-type: none"> • Hotline Switchgear 	H-14
70	Indication Lamp & Illuminated Push Button & LED	N/0/0055 N/0/0109 N/0/0049 (MAJOR)	CLW/ES/3/0072	<ul style="list-style-type: none"> • SchneiderElectric / France 	S-44	<ul style="list-style-type: none"> • Hotline Switchgear 	H-14		

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71	Spring Loaded Switch for 5 items (Instrument Lighting)	N/0/0106 (MEDIUM)	CLW/ES/3/0075	• Schaltbau Aktiengesellschaft/ Germany	S-11			• Woama Electronic/ Kol • Reliable Electronics	W-4 R-14
72	Auxiliary Switch For HB - 1	N/1/0070 (MAJOR)	CLW/ES/3/0203	• Schneider Elctric / France	S-44				
73	UIC Socket	N/0/0102 (MAJOR)	CLW/ES/3/0047	• Schaltbau/ Germany (agent Stesalit/ Kol)	S-12				

8. ROOF EQUIPMENTS & ACCESSORIES :

74	Pantograph for WAG-9	P/0/0168 (MAJOR)	CLW/ES/3/0006	Ref : RDSO's approved vendor list					
75	Pantograph for WAP-5	P/0/0168 (MAJOR)	CLW/ES/3/0006						
76	Pantograph Disconnecting + Earthing Device	P/0/0146 (MAJOR)	CLW/ES/3/0008	• Metal Engineer/ Kol • Patra & Chandra Engineering/ HWH • Selvoc Enterprise/ Kol	M-6 P-7 S-15				
77	Surge Arrestor	N/0/0084 (MAJOR)	CLW/ES/3/0016	• ABB Hochspannungstechnik AG/SWZ	A-4	• CGL	C-14	• Oblum/Hyderabad • Areva /Pondichery	O-3 A-30A
78	VCB	(MAJOR)	CLW/ES/C 47	• BT Vadodara • AAL / Noida • AREVA T&D India Ltd	B-18 A-25 A-30	• Bicco Lawric Ltd/kol	B-36		
79	Set of Roof Bars	P/1/0078 (MAJOR)	CLW/ES/3/0063 CLW/ES/3/0036	• Metal Engg., Kol • S.D.Engg. , Kol	M-6 S-1	• Bhartia Bright & Seamless Steel Ltd./Kol	B-9	• Recoton Engg Corp.	R-15
80	Primary Current Transformer	N/0/0117 (MAJOR)	CLW/ES/3/0013	• BMC/Kol	B-17	• M.B & Co.	M-18		
81	Primary Voltage Transformer	N/0/0116 (MAJOR)	CLW/ES/3/0009	• RITZ Instrument Transformer Gmbh / Germany	M-14			• B.M.C	B-17

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82	Resistor Harmonic Filter for WAG-9 /WAP-7	P/0/0169 (MAJOR)	CLW/ES/3/0015	<ul style="list-style-type: none"> Secheron Ltd./SWZ Sunshine Daulat Ram Inds/Kol Resitech Electrical (P) ltd. / Kol. 	S-14 S-47 D-2 R-12	<ul style="list-style-type: none"> RSI Switchgear/Kol ELECOS 	R-20 E-10		
83	Resistor Harmonic Filter for WAP-5	(MAJOR)	CLW/ES/3/0307	<ul style="list-style-type: none"> Resitech Electrical (P) ltd. / Kol. Daulat Ram Industries/ Kol 	R-12 D-2	<ul style="list-style-type: none"> ELECOS 	E-10		
84	Pantograph Insulator	P/0/0141 (MAJOR)	CLW/ES/3/0007	Approved list of conventional Loco to be followed for pantograph insulator.					
85	Roof Line Insulator	P/0/0142 (MAJOR)	CLW/ES/3/0051	Approved list of conventional Loco to be followed for Roof Line Insulator.					

9. CABLES & ACCESSORIES :

86	Cables (Single Core)	N/0/0029	CLW/ES/3/0458	Ref. RDSO's approved vendor list.					
87	Cables (Multi Core)	N/0/0032	CLW/ES/3/0459	Ref. RDSO's approved vendor list.					
88	Conduit for Cables (Metallic)	T/10/0013 (MAJOR)	IA0 51-00112			<ul style="list-style-type: none"> J.D. Engg. 	J-1		
89	Set of Cable Conduit	P/0/0017 (MAJOR)	CLW/ES/3/0127	<ul style="list-style-type: none"> R.S. Components & Control Ltd./ U.K. 	R-1	<ul style="list-style-type: none"> Jaishree Rubber Products/ Giridih 	J-3	<ul style="list-style-type: none"> Sridhar (Through Emanuel Entp/E-17) 	S-51
90	Set of Cable Gland	P/0/0026 (MEDIUM)	CLW/ES/3/0129	<ul style="list-style-type: none"> Gland-Mech Industries/Kol Lapp Cable 	G-8 L-8				

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91	SRBGF Items & Set of Fibre Glass Cable Cleat for TM (Type-4)	P/3/0086 & P/0/0182 (MEDIUM)	CLW/ES/3/0056 & CLW/ES/3/0414	<ul style="list-style-type: none"> Industrial Moulders & Fabricators/Kol. Precision Electro Continental Engg. Shanti Fibre R.G.Industries Agate Electrical Parmalli Wallace/ Bhopal Micaply National Moulders Atul Industries Shalimar Ind. 	I-9 P-17 C-12 S-9 R-18 A-39 P-22 M-21 N-7 A-32 S-48	• Glass Fibre & Allied	G-12		
92	Set of Cable Clips	P/0/0198 (MEDIUM)	CLW/ES/3/0133	<ul style="list-style-type: none"> Selvoc Enterprise/ Kol. Fabcon 	S-15 F-1	• Recoton • Metal Eggs	R-15 M-6		
93	Cable Lug	P/0/0036 (MAJOR)	CLW/ES/3/0130/I	<ul style="list-style-type: none"> Universal M/c Ltd./Kol Kamalesh Industries/Mumbai Electro Crimp Contacts India/Nasik 	U-6 K-1 E-11	• KSE Electrical/ Kol • Dowell's	K-10 D-17	• Electro Lugs & Terminal	E-28
94	Al. Cable Cleat	P/1/0086 (MEDIUM)	CLW/ES/3/0039	<ul style="list-style-type: none"> Precision Electro Engg./HWH Patron India Corpn./HWH Navanirman Fab P.Ltd 	P-17 P-8 N-3	• Selvoc Enterprise/ Kol.	S-15		
95	Set of Cable Cleat with DIN rail for TM	MEDIUM	CLW/ES/3/0045	<ul style="list-style-type: none"> Precision Electro Engg. Industrial Moulders & Fabricators/Kolkata Continental Engg/Kol 	P-17 I-9 C-12	• R.G.Industries/Kol	R-18		
96	Set of cable disconnection	P/0/0189 (MAJOR)	CLW/ES/3/0424 CLW/ES/3/0128	<ul style="list-style-type: none"> Some Engineers/ Jamshedpur Precision Electro Engineering/ HWH Shanti fibre 	S-23 P-17 S-9				
97	Set of Cable Tie	P/0/0067 (MEDIUM)	CLW/ES/3/0131	<ul style="list-style-type: none"> Thomas & Belts Black Burn & Co. Pvt. Ltd./ Kol. 	T-19 B-16				

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98	Set of Cable Tray made of Cold Rolled stainless steel sheet	P/0/0068 (MINOR)	CLW/ES/3/0132 CLW/ES/3/0316	<ul style="list-style-type: none"> • Techno Fab. Mfg. Ltd./ Kol • Brite Metalloy Pvt. Ltd./Kol. • Navanirman Fab P.Ltd/Kol • Selvoc • Power Products/ Kol 	T-4 B-22 N-3 S 15 P-15				
99	Set of Fibre Optic Cable	N/0/0031 (MAJOR)	CLW/ES/3/0141	<ul style="list-style-type: none"> • Huber & Shuner /SWZ t 	H-3				
100	Copper Sleeves & Set of copper sleeves	P/0/0151 (MAJOR)	CLW/ES/3/0205	<ul style="list-style-type: none"> • Precision Electro Engineering/ HWH • Patron Industries/ Kol • Continental Engg./ Kol 	P-17 P-8 C-12	<ul style="list-style-type: none"> • Selvoc Enterprise • Metal Enggs 	S-15 M-6		
101	Set of Metallic Hoses (Braided)	P/0/0137 (MEDIUM)	CLW/ES/3/0309	<ul style="list-style-type: none"> • Hubber + Suhner AG/SWZ • Sridhar Rubber Product (Through Emanuel Entp/E-17) • Senior Ind. Pvt. Ltd (Through Expansion Below Int./E-22) 	H-10 S-51				
102	Braided Protection Sleeve (EIT).	N/3/0115 (MEDIUM)	CLW/ES/3/0154	<ul style="list-style-type: none"> • Union Prestress Pvt. Ltd./ Jaipur • Pace Enterprise 	U-3 P-3	<ul style="list-style-type: none"> • Tyco Electronis 	T-21		
103	(a) Set of Faston Lug & Jointing Sleeve	P/16/0151 N/127/0030 (MEDIUM)	CLW/ES/3/0643	<ul style="list-style-type: none"> • Tyco Electronice (Through SFT Engg/S-66) 	T-21				
	(b) Cable Lug Faston size- 9.1 X 0.8"	(MEDIUM)	CLW/ES/3/0643			<ul style="list-style-type: none"> • Perfect Metal Industries • S.K. Enterprise/Hwh 	P-39 S-71		
104	Set of Non Metallic S.D. Sleeve , Adhesive Sleeve, Printable S.D Sleeve	N/0/0113 (MAJOR)	CLW/ES/3/0154	<ul style="list-style-type: none"> • Tyco Electronics/UK (Raychem Brand) Through Tyco Electronics India Corp. • PACE/Chandigarh 	T-21 P-3	<ul style="list-style-type: none"> • Union Prestress Pvt. Ltd./ Jaipur • PEP CHARLES 	U-3 P-23		

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105	Set of Base for Cable Ties	P/0/0011 (MINOR)	CLW/ES/3/0120	<ul style="list-style-type: none"> Black Burn & Co.Pvt. Ltd /Kol. P. N. Plastic 	B-16 P-1	<ul style="list-style-type: none"> Thomas & Betts (Through Basuki Corp.) 	T-19		
106	Set of Connectors	N/0/0030 (MAJOR)	CLW/ES/3/0124	<ul style="list-style-type: none"> Autometers Alliance Ltd./Noida Gimota AG 	A-25 G-6			<ul style="list-style-type: none"> Amphenol Interconnect India Pvt. Ltd 	A-13
107	Set of Steel Sleeves	P/0/0152 (MAJOR)	CLW/ES/3/0205	<ul style="list-style-type: none"> Industrial Moulders & Fabricators, Kol (IMF) Precision Electro Engg. HWH 	I-9 P-17	<ul style="list-style-type: none"> Patron India Corpn./HWH Continental Engg./ Kol 	P-8 C-12		
108	Set of Ferrite core for BUR 1/2	N/0/0146 (MAJOR)	CLW/ES/3/0431	<ul style="list-style-type: none"> Vaccum Schmelztec GmbH 	V-4				

10. INSULATIONS & ACCESSORIES :

109	Insulating Tube D-12.0	P/0/0186 (MAJOR)	CLW/ES/3/0260			<ul style="list-style-type: none"> Industrial Moulders & Fabricators/Kol 	I-9		
110	Set of Insulation	P/0/0028 (MAJOR)	CLW/ES/3/0144	<ul style="list-style-type: none"> Industrial Moulders & Fabricators/Kol. P.N. Plastic Industries 	I-9 P-1				
111	Set of Insulators	P/0/0029 P/0/0195 (MAJOR)	CLW/ES/3/0145	<ul style="list-style-type: none"> Mica Mold/ Jamshedpur Alpha Carbon Brush Mfg. Co./ Kol. Arco Industries/Mumbai 	M-10 A-11 A-22	<ul style="list-style-type: none"> BG Industries P.N. Plastic 	B-25 P-1		

11. RUBBER/ PLASTIC ITEMS :

112	Set of Rubber Items	P/0/0057 (MEDIUM)	CLW/ES/3/0151	<ul style="list-style-type: none"> Jayshree Rubber Swan Rubber 	J-3 S-38	<ul style="list-style-type: none"> MGM Rubber Co. Manish Rubber H.G.Industries Shree Rubber Works Sujan Ind. Bassant Rubber 	M-9 M-22 H-1 S-49 S-50 B-26	<ul style="list-style-type: none"> Phoenix Rubber 	P-24
113	Set of Gasket Non-metallic	P/0/0027 (MEDIUM)	CLW/ES/3/0142	<ul style="list-style-type: none"> Swan Rubber Industries, Kol. Jaishree Rubber Products/ Kol 	S-38 J-4			<ul style="list-style-type: none"> A.B.Elasto Product Phoenix Rubber 	A-34 P-24

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114	Set of Non-metallic Hoses	P/0/0139 (MEDIUM)	CLW/ES/3/0094	<ul style="list-style-type: none"> Jaishree Rubber Products, Giridih Sridhar 	J-3 S-51			<ul style="list-style-type: none"> Phoenix Javimins/ Cal 	P-24 J-5
115	Hose for Cab Heater		CLW/ES/3/0436			<ul style="list-style-type: none"> Jaishree Rubber Products/ Giridih Sridhar Rubber Product (Through Emanuel Entp) Taurian Tubes (Through Classic India) 	J-3 S-51 T-25		
116	Set of Other Hoses		CLW/ES/3/0099			<ul style="list-style-type: none"> Jaishree Rubber Products/ Giridih A.B. Elasto Product Pvt. Ltd (through Emanuel Entp) 	J-3 A-34		
117	Set of Plastics	P/0/0039 (MEDIUM)	CLW/ES/3/0140	<ul style="list-style-type: none"> Industrial Moulders & Fabricators/Kol. P.N. Plastic/Kol 	I-9 P-1			<ul style="list-style-type: none"> Precision Electro Engg. Santi Fibre/ Kol 	P-17 S-9
118	Set of Nylon Spacer	N/1/0115 (MINOR)	CLW/ES/3/0154	<ul style="list-style-type: none"> P.N. Plastic/Kol K.B.Enterprise / Kol 	P-1 K-18				
119	Pipe Saddle 16,20,30,32 PP	P/0/0088 (MEDIUM)	CLW/ES/3/0038	<ul style="list-style-type: none"> P.N. Plastic / Kol 	P-1				

12. LAMPS/ LIGHTING EQUIPMENTS :

120	Emergency Flasher Light	P/0/0161 (MAJOR)		Ref. RDSO's approved vendor list.					
121	Head Light lamp	N/1/0045 (MAJOR)	CLW/ES/3/0114	<ul style="list-style-type: none"> Southport Engg.(Aust) Pty Ltd./ Australia OSRAM Sylvania / USA 	S-26 S-52				
122	Head Light Housing	N/2/0045 (MAJOR)	CLW/ES/3/0114	<ul style="list-style-type: none"> Southport Engg.(Aust) Pty Ltd./ Australia Precision Electro Engg./ HWH Patra & Chandra/ Cal 	S-26 P-17 P-7				

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123	Illumination Pneumatic Gauges	P/0/0035 (MAJOR)	CLW/ES/3/0111	<ul style="list-style-type: none"> • Krishna Engg. Works/Kol • Precesion Electro Engg./HWH 	K-9 P-17				
124	Driver's Desk & Assistant Driver's Desk Illumination	P/0/0032 (MEDIUM)	CLW/ES/3/0042	<ul style="list-style-type: none"> • Helmholz & Pauli Gmbh/ Germany • Krishna Engg. • Tarudeep / Kol • Precision Electro Engg./HWH 	H-6 K-9 T-1 P-17				
125	Lamp Driver's Cab Lighting & Corridor Lighting	P/0/0031 (MEDIUM)	CLW/ES/3/0041	<ul style="list-style-type: none"> • Fluora Leuchfen AG/SWZ • Precision Electro Engineering/ HWH 	F-12 P-17	• Krishna Engg.	K-9		
126	Latching Push Button Corridor Lighting	N/0/0085 (MINOR)	CLW/ES/3/0044	<ul style="list-style-type: none"> • Esbee Corpn./ HWH • Precesion Elevtro Engg./HWH • Adtranz • Hotline Switchgear 	E-20 P-17 A-7 H-14				
127	Socket Hand Lamp	P/0/0058 (MINOR)	CLW/ES/3/0082	<ul style="list-style-type: none"> • Bhartia Industries Ltd./ Faridabad 	B-10				
128	Marker Light (Front & Rear)	P/0/0159 (MAJOR)		Ref. RDSO's approved vendor list.					

13. CAPACITORS & CONTACTORS & CIRCUIT BREAKERS:

129	Capacitor for Harmonic Filter	N/0/0011 (MAJOR)	CLW/ES/3/0087	<ul style="list-style-type: none"> • EPCOS AG/ Germany (Through EPCOS India Ltd) • ICAR/Italy 	E-19 I-2				
130	Capacitor for Machine Room Blower	N/0/0009 (MAJOR)	CLW/ES/3/0097	<ul style="list-style-type: none"> • EPCOS AG/ Germany • ICAR/Italy 	E-19 I-2				
131	Capacitor for Scavage Blower MR	N/0/0009 (MAJOR)	CLW/ES/3/0097	<ul style="list-style-type: none"> • EPCOS AG/ Germany • ICAR/Italy 	E-19 I-2				
132	Capacitor for BUR input Snubber	(MAJOR)	CLW/ES/3/0448	<ul style="list-style-type: none"> • EPCOS AG/ Germany • ICAR/Italy 	E-19 I-2				
133	Contacto Filter On/Off and adaption	N/0/0010 (MAJOR)	CLW/ES/3/0086	<ul style="list-style-type: none"> • Secheron Ltd./SWZ 	S-14			• AAL	A-25

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134	Contactora for Discharging Resistor	N/0/0012 (MAJOR)	CLW/ES/3/0088	• Secheron Ltd./SWZ	S-14			• AAL • Woama Electronics	A-25 W-4
135	Contactora Hotel Load	N/1/0017 (MAJOR)	CLW/ES/3/0308	• Secheron Ltd./SWZ	S-14				
136	Contactora Main Compressor with Snubber Circuit	N/0/0014 (MAJOR)	CLW/ES/3/0095	• Schneider Electric / France	S-44			• ABB/ India	A-5
137	Contactora Auxiliaries in HB-1 & 2	N/0/0068 (MAJOR)	CLW/ES/3/0201	• Schneider Electric/France	S-44			• ABB / India	A-5
138	Auxiliary Contactora Type No. S163 CIDT/110V	N/0/0068 (MAJOR)	CLW/ES/3/0201	• Schaltbau Aktiengesells chaft/ Germany (ThroughSiemens / S-18)	S-11				
139	Ckt. Breakers with/ Without Auxiliary Contacts(Type- 1)	N/0/0018 (MAJOR)	CLW/ES/3/0037 & CLW/ES/3/0096	• ABB Ltd / SWZ (Through IDS /Kol; / I-11) • Schnieder/ France	A-54 S-44				
140	Auxiliary Contactora For VCB / Pantograph In SB1 & SB2	N/0/0021 (MAJOR)	CLW/ES/3/0040	• Schneider Electric/France	S-44				
141	Contactora Type - 4 & Type - 6	N/0/0024 (MAJOR)	CLW/ES/3/0034	• Schaltbau Aktiengesells chaft / Germany	S-11				
142	Circuit Breaker Battery & SB1 & SB2	N/0/0025 (MAJOR)	CLW/ES/3/0050	• Schneider Electric (Merlin Gerin make) • ABB	S-44 A-5				

14. ADHESIVE / LUBRICANT

143	ABS Solvent Cement Type SIN 1133	P/0/0172 (MEDIUM)	CLW/ES/3/0167	• ABS Georgfischer Piping System • Pacific Chemicals/ Mumbai	A-35 P-4				
144	ABS Solvent Cement Type SIN 1193	P/0/0173 (MEDIUM)	CLW/ES/3/0167	• ABS Georgfischer Piping System • Pacific Chemicals/ Mumbai	A-35 P-4				

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145	Loctite or Equivalent- P/0/0037: CLW/ES/3/0650								
	(a) Rubber Joint, Rubber to Rubber & Rubber to Metal	P/1/0037 (MEDIUM)		• Henkel adhesive technologies India Pvt. Ltd. (Loctite-406)	H-17				
	(b) Thread Sealing of Bolt & Screws (Removable Type)	P/2/0037 (MEDIUM)		• Henkel adhesive technologies India Pvt. Ltd. (Loctite-241/243)	H-17				
	© Gap sealing for Metallic to Plastic, Rubber to Plastic & Metal to rigid rubber	P/4/0037 (MEDIUM)		• Henkel adhesive technologies India Pvt. Ltd. (Loctite-495)	H-17	• 3M (AC20 or AC40)	M-32	• Anabond Ltd (Anabond 201)	A-14
	(d) Pipe Sealing at high pressure and to seal threads against washers oil & most common organic material at high pressure	P/5/0037 (MEDIUM)		• Henkel adhesive technologies India Pvt. Ltd. (Loctite-577)	H-17	• 3M (Ritelock PS-77)	M-32		
	(e) High Strength locking & Sealing of Stud, Nuts, Bolts & axle box assly at screwed condition	P/8/0037 (MEDIUM)		• Henkel adhesive technologies India Pvt. Ltd. (Loctite-271)	H-17	• 3M (Ritelock TL-71)	M-32	• Anabond Ltd (Anabond 112E)	A-14
	(f) Cleaner Cum Activator	P/9/0037 (MEDIUM)		• Henkel adhesive technologies India Pvt. Ltd. (Primer 7471)	H-17	• 3M (Ritelock-AC64)	M-32		
146	Molykote White Long Term W2 or Equivalent	P/0/0171 (MEDIUM)	CLW/ES/3/0170	• J.K. Industries/Mumbai Brand- Noversize (CU) Gel. • Stanvac Chemicals Ltd. • Castrol India Ltd./ Cal	J-2 S-65 C-2				
147	Fire Resistance Cement	P/0/0023 (MEDIUM)	CLW/ES/3/0168/2	• Pacific Chemical / Mumbai	P-4				

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148	Hotmelt Tape	P/2/0071 (MEDIUM)	CLW/ES/3/0161			<ul style="list-style-type: none"> • Otto Pfenninger AG/ Swz (through Anandilal Bhanwarlal & Co.) • Tirumala Seven Hills (P) Ltd./Cal(Brand- ROTIMA AG) • Eastern Commercial Corpn./ Cal (Brand & Make- Jhonson & Jhonson) 	O-1 T-10 E-2		
149	Sika Flex or Equivalent	P/0/0065 (MEDIUM)	CLW/ES/3/0175	• Sika India PVT. Ltd.	S-20	• Henkel Adhesive	H-17		
150	Anabond 685 RTV Silicon Sealant	(MINOR)	CLW/ES/3/0175	• Anabond Limited	A-15				
151	Oil Shell Corona	P/0/0162	CLW/ES/3/0171	Ref. RDSO's approved vendor list.					
152	Oil Shell Diala DX	P/0/0163	CLW/ES/3/0172	Ref. RDSO's approved vendor list.					
153	Scotch Danger Caution Tape	P/1/0071 (MINOR)	CLW/ES/3/0161			• PRS Permacel		• 3 M (Through Coch Com)	M-32 C-28

15. MISCELLANEOUS ITEMS :

154	Set of Copper Braid	P/0/0013 (MAJOR)	CLW/ES/3/0138	<ul style="list-style-type: none"> • Continental Engineering Works/Kol. • Metal Engineers/Kol. • Precision Electro Engineering/ HWH 	C-12 M-6 P-17	<ul style="list-style-type: none"> • Patron Industries. • Alpha Carbon Brush 	P-8 A-11		
155	Set of Non Metallic Plate	P/0/0043 (MEDIUM)	CLW/ES/3/0451	<ul style="list-style-type: none"> • IMF/Kol • Precision Eletro Engg • Shanti Fibre 	I-9 P-17 S-9				
156	Set of Copper Plate	P/0/0044 (MEDIUM)	CLW/ES/3/0452	<ul style="list-style-type: none"> • Precision/HWH • Ilka Metal/Kol 	P-17 I-3	• S.D. Engineering Co	S-1		
157	Set of Rating Plate	P/0/0080 (MINOR)	CLW/ES/3/0252	• Ilka Metal Industries (P) Ltd./ Kol	I-3			• Sarweshwar Engg Corp	S-10

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	20 of 56	01.07.2010		31.12.2010	CLW/MLAS/3-PHASE		3.0		
	Description	Category No.& Type	Drng. / Specn No.	Part-I	Code	Part-II	Code	Sources identified for development	Code
158	Set of Bus Bar	P/0/0009 (MAJOR)	CLW/ES/3/0118 CLW/ES/3/0412	<ul style="list-style-type: none"> • Metal Engg./ Kol • CMC Mfg.Co.(P) Ltd/Kol • Precision Electro Engg.Hwh • Selvoc Enterprise, Kol • Patron Industrial Corporation, HWH • Chandra Udyog/HWH • Atlanta Engg Co./ HWH • Indian Metal & Alloy Mfg. Co./ Kol 	M-6 C-9 P-17 S-15 P-8 C-5 A-24 I-8			<ul style="list-style-type: none"> • Continental Engg.Works/Kol. 	C-12
159	Set of Fittings	P/0/0025 (MAJOR)	CLW/ES/3/0125	<ul style="list-style-type: none"> • Selvoc Enterprise/ Kol 	S-15	<ul style="list-style-type: none"> • S.D. Engineering & Co./24 Pgrs.(N) • Glandmech Ind. 	S-1 G-8		
160	Set of Stop insert for BUR 1/2	P/0/0128 (MINOR)	CLW/ES/3/0415	<ul style="list-style-type: none"> • J.D. Engineering/HWH • Universal sheet 	J-1 U-7				
161	Set of Terminal blocks (Wago type)	P/0/0070 (MAJOR)	CLW/ES/3/0644	<ul style="list-style-type: none"> • WAGO & Controls/ N.Delhi 	W-1				
162	Set of Spacer	P/0/0062 (MINOR)	CLW/ES/3/0156	<ul style="list-style-type: none"> • Continental Engg./ Kol • ARCO / Mumbai • Metal Engg./ Kol • Selvoc Enterprise/ Kol • Haradhan & Co. 	C-12 A-22 M-6 S-15 H-4			<ul style="list-style-type: none"> • Patron 	P-8
163	Set of Union & Fittings	P/0/0074 (MEDIUM)	CLW/ES/3/0163	<ul style="list-style-type: none"> • Gland Mech./ Kol • Fluid Control Pvt Ltd. 	G-8 F-11	<ul style="list-style-type: none"> • Selvoc Enterprise/ Kol • Satya Industries 	S-15 S-30		
164	Set of Non-metallic Pipe (Smoke Detection Pipe)	P/0/0041 (MAJOR)	CLW/ES/3/0254 for WAG- 9 CLW/ES/3/0413 for WAP- 5	<ul style="list-style-type: none"> • Ransal India Pvt. Ltd./Kol • Bharatia Bright & Seamless Steel Ltd, Kol • SFT Engineering 	R-6 B-9 S-66				
165	Set of Disconnection Hotel Load	P/0/0197 (MEDIUM)	CLW/ES/3/0434	<ul style="list-style-type: none"> • Precision Electro Engg./HWH 	P-17				
166	Set of Nipple	P/0/0038 (MEDIUM)	CLW/ES/3/0147	<ul style="list-style-type: none"> • Parker/Germany • Gland Mech./ Kol 	P-6 G-8				

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	Description	Category No.& Type	Drg. / Specn No.	Part-I	Code	Part-II	Code	Sources identified for development	Code
167	Set Of Support for WAP-5 (Uncomon)		CLW/ES/3/0407			• C.S.Engineers	C-1		
168	Wooden Skid		CLW.4W.12000.054 CLW.4W.13000.175			• Santi Fibre Inds (Ind)	S-9	• M.M.Timber Works	M-33

16. BOGIE ITEMS

169	Axle Box Bearings (WAG-9 & WAP-7)	R9/001/0063	1209-01.311-061	Ref. RDSO's approved vendor list.					
170	Axle Box Bearings(WAP-5)	R10/001/0008	IA016-01494	Ref. RDSO's approved vendor list.					
171	Axle Box Complete without Bearing(WAG-9 & WAP-7)	R/9/0004 (MAJOR)	CLW/MS/3/003 1209-01.111-005A2 1209-01.111-006A1 1209-01.111-007A1	• SKF/Germany(OEM) • Kaypee • Tirupati • KMRI / HWH	S-21 K-2 T-11 K-5	• Anil Engg. • Special engg	A-19 S-53	• Simplex	S-46
172	Axle Box Complete without Bearing(WAP-5)	R/10/0004 (MAJOR)	IA011-00131 IA011-00132 IA011-00133 IA011-00135	• SKF/Germany(OEM)	S-21	• KMRI/ Kol. • Kaypee/Kol.	K-5 K-2	• Tirupati/Kol.	T-11
173	Axle Guide Bearing(WAP-5)	R/10/0018 (MAJOR)	IA011-00379			• KMRI • Kaypee/Kol. • Tirupati/Kol.	K-5 K-2 T-11		
174	Bearings for main int. gear, pinion (WAP-5)	R/10/0015 (MAJOR)	1210-01.311-021 1210-01.411-022 1210-01.411-023	Ref. RDSO's approved vendor list.					
175	Bar for bogie head beam	R9/001/0046 (MAJOR)	1209-01.312-171	• Kaypee Equipment/Kol • C.S Engg	K-2 C-1	• Simplex Engg & Foundry Works • ASICO Engg • Vanguard Engg	S-46 A-36 V-1	• KMRI/Kol. • Tirupati Engg. Works/ Kol	K-5 T-11
176	TM Bellow	S9/001/0002 (MEDIUM)	CLW/MS/3/006, 1209-01.018-009A1	• Jaishree Rubber/Cal • LUDOWICI Rubber/ Australia(OEM)	J-4 L-6	• Swan Rubber • Phoenix Rubber	S-38 P-24	• H.G.Industries/Kol	H-1
177	Bogie sealing adhesives	S/10/0002 (MAJOR)	CLW/MS/10/013	• Loctite India/Kol.	L-2	• Anabond/Cal	A-14		

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	Description	Category No.& Type	Drng. / Specn No.	Part-I	Code	Part-II	Code	Sources identified for development	Code
178	Bolt(Pin)	M/9/0007 (MEDIUM)	1209-01.413-011	<ul style="list-style-type: none"> • Mondal Engg. • Alfred Engg 	M-23 A-37	<ul style="list-style-type: none"> • SRI prakash • C.S. Engg./Kol. 	S-41 C-1	<ul style="list-style-type: none"> • U.K.Enterprises/Kol. 	U-1
179	Bolt	R/9/0045 (MEDIUM)	1209-01.315-017	<ul style="list-style-type: none"> • C.S. Enngg./Kol. 	C-1	<ul style="list-style-type: none"> • Tirupati/Kol. • U.K. Enterprises. 	T-11 U-1		
180	Chain	S9/001/0021 (MEDIUM)	CLW/MS/3/118 1209-01.413-012A1 1209-01.315-019 1209-18.406-008	<ul style="list-style-type: none"> • Indian Chain/Kol. 	I-6	<ul style="list-style-type: none"> • Impex 	I-5	<ul style="list-style-type: none"> • Indian Link Chain/Mumbai 	I-7
181	Damper	R/9/0011 (MAJOR)	CLW/MS/3/009 1209-01.215-014 (for WAG-9/WAP-7) CLW/MS/10/005 1210-01.215-014 (for WAP-5)	<ul style="list-style-type: none"> • KONI / Holland(OEM) • Knorr-Bremse/Faridabad 	K-7 K-6	<ul style="list-style-type: none"> • Escorts/Faridabad. • MSA/Italy 	E-21 M-24		
182	Disc Brake Arrangement(WAP-5)	V/10/0001 (MINOR)	IA011-00154 Sheet no.- 1 & 2 IA011-00154 BOM	<ul style="list-style-type: none"> • SAB-WABCO (through Indian Agent) 	S-3				
183	Drive Assembly Complete(WAP-5)	R/10/0003 (MAJOR)	CLW/MS/10/0003			<ul style="list-style-type: none"> • KMRI • Kaypee 	K-5 K-2		
184	Fixing cables	T9/001/0014 T9/002/0014 (MEDIUM)	1209-01.318-018 1209-01.318-019	<ul style="list-style-type: none"> • C.S. Engg./Kol • J.D Engg • Dhar & Co. / Kol. 	C-1 J-1 D-5	<ul style="list-style-type: none"> • Sales & Service/Kol 	S-5	<ul style="list-style-type: none"> • Ma Tara Engg 	M-3
185	Flange	R9/001/0006 (MAJOR)	1209-01.113-007 1209-01.113-027 (Old Design)	<ul style="list-style-type: none"> • KMRI / HWH • Kaypee Equipments/Kol. • Tirupati Engg. Works/Kol 	K-5 K-2 T-11				
186	Gears & Pinions for WAP -5 (65:35:17); WAP -7 (72:20); WAG-9 (107:21) or (77:15)	O/10/0001 (MAJOR)	RDSO Spec- MPO 2800.19,Rev-0.00 SKDP-3473 & 74 SKDP-3435 & 36 SKDP-3847 & 48 for WAP-7 / WAG-9	<ul style="list-style-type: none"> • KPC/ Pune 	K-8	<ul style="list-style-type: none"> • BHEL / Bhopal • SAN Engg./ Bangalore • GGAG/Dewas 	B-12 S-8 G-5	<ul style="list-style-type: none"> • Hard Rock Electric & Co. Pvt. Ltd / Bombai • Shanti Gears Ltd / Kol 	

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	Description	Category No.& Type	Drg. / Specn No.	Part-I	Code	Part-II	Code	Sources identified for development	Code
183	Gear Case-SGCI (WAG-9 & WAP-7)	R/9/0059 (MAJOR)	1209-01.013-014	<ul style="list-style-type: none"> • KMRI / HWH • Kaypee/HWH • Tirupati/HWH 	K-5 K-2 T-11			<ul style="list-style-type: none"> • Eastern Equip/Kol. • Anil Engg • Simplex Engg & Found. Works 	E-03 A-19 S-46
184	Gear Case-Al.(WAP-5)	R/10/0016 (MAJOR)	IA011-00222A	Ref. RDSO's approved vendor list.					
185	Hurth Coupling(WAP-5)	R/10/0009 (MAJOR)	IA011-00234	Ref. RDSO's approved vendor list.					
186	Helical Spring for WAG-9, WAG-9H & WAP-5	R/9/0010 (MAJOR)	CLW/MS/3/008, IB011-00842, IB011-00843, IA011-00119, IA011-00120	<ul style="list-style-type: none"> • Tempered Spring/England • FJPH / Germany • LPDN / Germany 	T-26 F-5 L-14	<ul style="list-style-type: none"> • Oy Lesjofor AB/ Finland 	L-15	<ul style="list-style-type: none"> • Abok Spring/ Jaipur • Frontier Spring/ Kanpur • G.B. Spring/ Deradhun • Bhartiya Mini spring 	A-52 F-14 G-10 B-11
187	Holder for TM suspension	R9/001/0007 (MAJOR)	1209-01.118-002	<ul style="list-style-type: none"> • KMRI / HWH • Tirupati • Kaypee • Special Engg 	K-5 T-11 K-2 S-53			<ul style="list-style-type: none"> • Vanguard Engg • Anil Engg 	V-1 A-19
188	Housing	R9/001/0005 (MEDIUM)	1209-01.113-002 1209-01.113-026	<ul style="list-style-type: none"> • KMRI / HWH • Kaypee • Tirupati 	K-5 K-2 T-11	<ul style="list-style-type: none"> • Anil Engg. 	A-19		
189	Insulating base	S9/001/0010 (MEDIUM)	1209-01.415-015 1209-01.315-016	<ul style="list-style-type: none"> • Polymer Industries • Balin & Co./24Pgs(N) • P. N. Plastic 	P-26 B-3 P-1				
190	F S all steel lock nut	M/9/0012A M/10/0001A (MAJOR)	CLW/MS/3/089 (Rev-1 April 2007)	<ul style="list-style-type: none"> • Falg & Homel GmbH 	F-6				
191	Locking Plate	L/9/0029 (MINOR)	1209-01.413-023	<ul style="list-style-type: none"> • Alfred Engg 	A-37	<ul style="list-style-type: none"> • JD Engg./Kol. • Matara/Kol. • A.K Engg 	J-1 M-3 A-38		
192	Necked down bolt	L9/002/0024 (MINOR)	1209-01.315-006	<ul style="list-style-type: none"> • C.S. Engg/Kol. 	C-1	<ul style="list-style-type: none"> • Mondal Engg 	M-23		
193	Nose suspended drive components	R/9/0062 (MAJOR)	CLW/MS/3/049A2 1209-01.111-004 SH.1&2	Ref. RDSO's approved vendor list.					

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	Description	Category No.& Type	Drg. / Specn No.	Part-I	Code	Part-II	Code	Sources identified for development	Code		
194	Pivot	R9/001/0001 (MAJOR)	1209-01.112-002	<ul style="list-style-type: none"> • KMRI / HWH • Kaypee/Kol. 	K-5 K-2	<ul style="list-style-type: none"> • Tirupati/Kol. • Special Engg. 	T-11 S-53				
195	Ring (Aclathan)	S9/001/0001	RDSO/2007/EL/ Spec /053	Ref. RDSO's approved vendor list.							
196	S.T.Bearings	R/9/0057	CLW/MS/3/032 1209-01.411-020-021 A-1	Ref. RDSO's approved vendor list.							
197	Sealing (cu. Washer)	L9/002/0023 (MINOR)	1209-01.412-069	<ul style="list-style-type: none"> • J.D. Engg. • RECON 	J-1 R-9	<ul style="list-style-type: none"> • C.S.Engg. • Mondal Engg 	C-1 M-23				
198	Spacer	T9/001/0013 (MAJOR)	1209-01.418-004	<ul style="list-style-type: none"> • Tirupati Engg/Kol • Radha Engg./Kol • Vanguard/Kol. 	T-11 R-3 V-1						
199	Speri block	R/9/0008	RDSO/2007/EL/ Spec /051	Ref. RDSO's approved vendor list.							
200	Spring guide (Casting)	R9/001/0002 (MAJOR)	1209-01.212-003	<ul style="list-style-type: none"> • KMRI / HWH • Kaypee/Kol. • Tirupati/Kol. 	K-5 K-2 T-11						
201	Stop (lateral & vertical)	R/9/0012 (MAJOR)	CLW/MS/3/010 1209-01.315-021, 1209-01.315-022	<ul style="list-style-type: none"> • GMT / Germany (OEM) • MGM Rubber • Jaishree Rubber/Cal 	G-9 M-9 J-4	<ul style="list-style-type: none"> • Tega India • Phoenix Rubber 	T-6 P-24	<ul style="list-style-type: none"> • SWAN Rubber 	S-38		
202	Suspension Tube	R/9/0058 (MAJOR)	CLW/MS/3/052, 1209-01.011-018	Ref. RDSO's approved vendor list.							
203	Set of Tubes	T/9/0012 (MAJOR)	CLW /MS/3/055	<ul style="list-style-type: none"> • Kaypee/Kol. • Haradhan / HWH • Tirupati/Kol. • A.K Engg 	K-2 H-4 T-11 A-38	<ul style="list-style-type: none"> • Satya Inds 	S-30	<ul style="list-style-type: none"> • KMRI/Kol. • Niacton Entp/Kol 	K-5		
204	Threaded Bolt	L/10/0001 (MAJOR)	IA016-00272	<ul style="list-style-type: none"> • Haradhan & Co. 	H-4	<ul style="list-style-type: none"> • Alfred • C.S. Engg./Kol. 	A-37 C-1	<ul style="list-style-type: none"> • U.K.Entrprises/Kol. 	U-1		
205	Tube for Head Beam	T/9/0025 (MAJOR)	1209-01.312-160	<ul style="list-style-type: none"> • KMRI/Kol. • Tirupati Engg Wks/Kol. 	K-5 T-11	<ul style="list-style-type: none"> • Kapee Equipment/Kol • Satya Industries 	K-2 S-30				
206	Traction Bar Complete	(MEDIUM)	IA011-00381A2	<ul style="list-style-type: none"> • KMRI/Kol. • Tirupati Engg. • Kaypee 	K-5 T-11 K-2	<ul style="list-style-type: none"> • Satya Industries 	S-30				
207	Tube Welding	T/9/0026 (MAJOR)	1209-01.313-008	<ul style="list-style-type: none"> • C.S Engg 	C-1	<ul style="list-style-type: none"> • Haradhan/Kol. • Satya Industries/Kol. • Tirupati/Kol. 	H-4 S-30 T-11	<ul style="list-style-type: none"> • KMRI/Kol • Kaypee/Kol. 	K-5 K-2		

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208	Torque Arm(WAP-5)	R/10/0017 (MAJOR)	1210-01-118-012 (Steel Casting) IA011-00374(Al)			<ul style="list-style-type: none"> • KMRI/Kol. • Kaypee/Kol. 	K-5 K-2	<ul style="list-style-type: none"> • Tirupati/Kol. 	T-11
209	Tread Brake arrgt.Comp. (WAG-9 & WAP-7)	V/9/0001 (MAJOR)	CLW/MS/3/007 1209-01.016-001 1209-01.116-002	<ul style="list-style-type: none"> • Knorr Bremse/ Faridabad • SAB WABCO / Hosur 	K-6 S-3			<ul style="list-style-type: none"> • MZT HEPOS AD Macedonia (through Stone India Ltd./Kol) 	S-34
210	Wheel Set Guide (Steel Casting)	R/9/0009 (MEDIUM)	1209-01.115-004 for WAG-9 1210- 01.115-020 for WAP-5	<ul style="list-style-type: none"> • KMRI / HWH • Tirupati/Kol. • Kaypee/Kol. 	K-5 T-11 K-2	<ul style="list-style-type: none"> • Special Engg • Hindusthan Udyog • Anil Engg. 	S-53 H-9 A-19		
211	Pivot Ring & Housing Ring for WAG-9/ WAP-7	R/9/0092 R/9/0093 (MEDIUM)	1209-01.313-005 & 004			<ul style="list-style-type: none"> • Tarudeep 	T-1	<ul style="list-style-type: none"> • Modern Engg. Works 	M-26
212	Bogie Frame Assly for WAG 9/WAP-7	R/9/0080 (MAJOR)	1209-01.112-001			<ul style="list-style-type: none"> • Ved Sasso meccanica (Ind) Pvt Ltd / Kanpur 			
213	T.M. Bellow Mounting Assly for WAP-5	R/10/0062 (MINOR)	IA111 - 00039			<ul style="list-style-type: none"> • C.S.Engineers / Kol 	C-1		
214	Rubber Support & Rubber Stop(WAP-5)	S/10/0001A & B	IA016-00007 & 00008			<ul style="list-style-type: none"> • Phoenix Rubber Works • Jaishree Rubber Product / Giridih 	P-24 J-3	<ul style="list-style-type: none"> • Basant Rubber Factory Ltd/Mumbai • Paramount 	B-26 P-41

17. SUPER STRUCTURE :

215	Battery Box Assly.	R/9/0031 (MAJOR)	CLW/MS/3/037 1209-06.138-001 1209-06.138-003	<ul style="list-style-type: none"> • Brite Metalloy Pvt. Ltd./ Kol 	B-22	<ul style="list-style-type: none"> • Krebs & Cie • C.S Engg 	K-13 C-1	<ul style="list-style-type: none"> • Precision Technique/ Kol 	P-16
				<ul style="list-style-type: none"> • Bhartia Bright Seamless & Steels Ltd./ Kol • RP Machine tools 	B-9 R-16	<ul style="list-style-type: none"> • Universal Sheetmetal • Navanirman Fab P. Ltd 	U-7 N-3	<ul style="list-style-type: none"> • Encon Enterprise 	E-23
				<ul style="list-style-type: none"> • Navnirman Fab P Ltd/Kol • Selvoc Enterprise/ Kol • Metal Engineers/Kol • Bhartia Bright Seamless & Steels Ltd./ Kol 	N-3 S-15 M-6 B-9			<ul style="list-style-type: none"> • Copper Curves 	C-19

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217	Bush Megi HL	R/9/0020 (MINOR)	CLW/MS/3/017	<ul style="list-style-type: none"> MGM Rubber Co./ Kol Jaishree Rubber/ Kol 	M-9 J-4			<ul style="list-style-type: none"> Swan Rubber 	S-38
218	Corrugated Flexible Ducting	S/9/0042 (MINOR)	1209 -11.344 - 051	<ul style="list-style-type: none"> Javimins Jaishree Rubber/ Kol 	J-5 J-4				
219	Door Catch Assly.	S/9/0007 (MEDIUM)	1209-09.433-019	<ul style="list-style-type: none"> C.S. Engg. Works/ Kol P.N. Plastic 	C-1 P-1				
220	Driver Seat Assly.	R/9/0024 (MEDIUM)	CLW/MS/3/021	<ul style="list-style-type: none"> Eastern Equipment/ Kol FABCON/ Kol Tarudeep Entp. 	E-3 F-1 T-1			<ul style="list-style-type: none"> C.D.Polymer 	
221	Fibre Glass Insulation Kit	R/9/0018 (MEDIUM)	CLW/MS/3/015	<ul style="list-style-type: none"> Loyds Insualtion (Ind.) Ltd./ Kol Capex 	L-3 C-21				
222	Filter Assly.	R/9/0014 (MEDIUM)	CLW/MS/3/012 1209-11.235-132	<ul style="list-style-type: none"> Filter Mfg. Pvt. Ltd. Camfil Farr Air Filtration Ind. Ltd John Fowler(India) Ltd./ Bangalore 	F-3 C-26 J-6				
223	Fire Extinguisher	R/9/0019 (MAJOR)	CLW/MS/3/016 1209-13-240-025	<ul style="list-style-type: none"> Zenith/ Mumbai Fire Shield/ Kol 	Z-1 F-4	<ul style="list-style-type: none"> Crash Fire Steelage/ Coimbatore 	C-18 S-31	<ul style="list-style-type: none"> Bhartia Bright Seamless & Steels Ltd./ Kol 	B-9
224	Fire Extinguisher System (22.5 Kgs.)	R/9/109 (MAJOR)	CLW/MS/3/108	<ul style="list-style-type: none"> Fire Shield 	F-4			<ul style="list-style-type: none"> Victory Gas Allarm 	V-3
225	FRP under panel of Cab	R/9/0021 (MINOR)	CLW/MS/3/018	<ul style="list-style-type: none"> Santi Fibre/ Kol R.G. Industries IMF /Kol 	S-9 R-18 I-9				
226	Gasket (non-metallic)	S/9/0019 (MINOR)	CLW/MS/3/062	<ul style="list-style-type: none"> Jaishree Rubber Products/ Kol. MGM Rubber Co./ Kol Swan Rubber Industries/ Kol 	J-4 M-9 S-38			<ul style="list-style-type: none"> Die Hard Polymer AB Elasto Product 	D-6 A-40
227	Grommet for wiper pipe pass	S/9/0037 (MEDIUM)	1209-03.330-240	<ul style="list-style-type: none"> MGM Rubber Co./ Kol SWAN Rubber Jaishree Rubber 	M-9 S-38 J-3			<ul style="list-style-type: none"> India Polymer /Hwh 	I-13

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228	Inter Lock Assly.	R/9/0077 (MAJOR)	CLW/MS/3/111	• Patra & Chandra/ Kol	P-7					
229	Loco Side Buffer	R/9/0023 (MAJOR)	WA/BD-211	Conventional loco sources to be followed.						
230	Plywood (Impregnated Compressed laminated)	S/9/0043 (MINOR)	1209-08.231-013 1209-08.231-014 1209-08.331-015 1209-08.331-016	• Oriental Veneer Product	O-2	• Fashion furniture • Tarudeep Ent. • India Timber • Mysore Polymer/Mysore	F-17 T-1 I-14 M-15			
231	Rubber Hose for Scav. Blower	S/9/0032 (MEDIUM)	1209-11.344-046 1209-11.344-052 1209-11.339-037	• Jaishree Rubber Products/ Kol • Swan Rubber Industries/ Kol	J-4 S-38	• Emanuel Enterprise	E-17			
232	Sealing Rubber	S/9/0009 (MEDIUM)	CLW/MS/3/034	• Pulsar Rubber/Kol	P-19	• National Engg. Industries/Kol	N-1			

18. PNEUMATIC/ CONTROLLER & HARDWARES :

233	E70 Brake & Pneum system comp.	V9/001/0008	CLW/MS/3/001	Ref. RDSO's approved vendor list.					
234	Brass Pipe fittings	S/9/0025 (MAJOR)	CLW/MS/3/066	• Parker Hennifin GmbH/ Germany • Fluid Controls (P) Ltd./ Mumbai	P-6 F-11				
235	Copper Pipe fittings	S/9/0026 (MAJOR)	CLW/MS/3/067	• Alpha Carbon Brush Mfg.Co. / Kol.	A-11	• ELBE Industrial Works/ HWH • Bhartia Bright and Seamless Steel/Kol • Selvoc Enterprises/ Kol • Metal Engineers/ Kol	E-8 B-9 S-15 M-6		
236	Copper Tubes	T/9/0003 (MAJOR)	CLW/MS/3/030	• Cubex Tubing Ltd./ Secunderabad • Metal Gem • ALCOBEX/ Jodhpur	C-15 M-25 A-10	• Western Extrusion • R.K Trading	W-5 R-19	• Rajco Metal/ Mumbai	R-4

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237	Flexible Hose assly.	V/9/0002 (MAJOR)	CLW/MS/3/033	<ul style="list-style-type: none"> Hydrax International SONI Enterprise/Kol. 	H-12 S-24	<ul style="list-style-type: none"> Javmins / Kol. Sridhar Rubber Products (P) Ltd./Howrah 	J-5 S-51		
238	Nylon Tubes	V/9/0011 (MAJOR)	CLW/MS/3/079	<ul style="list-style-type: none"> Garware Synthetics Ltd. (Through Kohli & Co/Kol /Code K-14) Manlon Polymers/ Ahmedabad 	G-2 M-2	<ul style="list-style-type: none"> SMC Pneumatic India /Gurgaon 	S-22		
239	Plugs (Steel)	S/9/0023 (MEDIUM)	CLW/MS/3/064	<ul style="list-style-type: none"> Super Products / Kol B.K. Industries/ HWH 	S-36 B-2				
240	Polypropelene components	S/9/0024 (MEDIUM)	CLW/MS/3/065	<ul style="list-style-type: none"> STAUFF Walter/Germany P.N. Plastics Indstrie/Kol. 	S-29 P-1				
241	Saddle light stauff	S/9/0014 (MINOR)	1209-18.406-053,	<ul style="list-style-type: none"> J.D Engg 	J-1	<ul style="list-style-type: none"> Monosa Engg. Works / HWH Haradhan & Co./ HWH 	M-12 H-4		
242	Steel. Pipe fittings	S/9/0027 (MAJOR)	CLW/MS/3/068	<ul style="list-style-type: none"> Hyd. Air Engg.(P) Ltd./ Mumbai Gland Mech Industrie/Kol 	H-11 G-8	<ul style="list-style-type: none"> Fluid Controls (P) Ltd./ Mumbai Staya Industries/ Kol 	F-11 S-30	<ul style="list-style-type: none"> S.D. Industries 	
243	S S Pipe fitting	S/9/0008 (MAJOR)	CLW/MS/3/053,	<ul style="list-style-type: none"> Parker Hennifin GmbH/ Germany Fluid Controls (P) Ltd./ Mumbai 	P-6 F-11			<ul style="list-style-type: none"> Jalan Enterprises 	J-8
244	S S Tube	T/9/0002 (MAJOR)	CLW/MS/3/029 CLW/MS/10/023	<ul style="list-style-type: none"> Heavy Metal/ Ahmedabad 	H-5	<ul style="list-style-type: none"> Choksi Tube Co. Ltd./ Ahmedabad Bhartia Bright and Seamless Steel/Kol 	C-7 B-9		
245	Twin tower air dryer	V/9/0010 (MAJOR)	CLW/MS/3/041	Ref. RDSO's approved vendor list.					
246	Wiper Assly.	(MAJOR)	CLW/MS/3/050	<ul style="list-style-type: none"> Knorr-Bremse/ Austria Knorr-Bremse/India Electromech / Delhi 	K-15 K-6 E-12	<ul style="list-style-type: none"> ELGI 	E-14	<ul style="list-style-type: none"> Chanda & Chanda 	C-6
247	Rubber component for Brake System (3-ph loco)			Ref. RDSO's approved vendor list.					

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248	Reservoir above 50 litres	(MINOR)	CLW/MS/3/110 (For 3-Ph) 0/3/65/234(P) 0/3/65/136(P) 0/3/65/136	<ul style="list-style-type: none"> • D R Steel • Recon Engg • Hydrodyne 	D-11 R-9 H-13	<ul style="list-style-type: none"> • Electromagnetic • Brite metalloy • ELBEE • Kreb & cie 	E-24 B-22 E-8 K-12		

19. HARDWARES

249	MS Hardwares	M-9/0003 - 0017 (MAJOR)	CLW/MS/3/080 - CLW/MS/3/093	<ul style="list-style-type: none"> • LPS Bossard (P) Ltd./ Kol • TVS/ Chennai • Unbreako/ Kol • Boltmaster • Vardhaman • GKW 	L-4 T-17 U-2 B-29 V-5 G-7			sources of conventional loco standard hardware included		
250	SS Hardwares	M-9/002 (MAJOR)	CLW/MS/3/040	<ul style="list-style-type: none"> • Kundan/ Mumbai • APL/ Mumbai 	K-11 A-20					
251	Spring Washer	M-9/008 (MAJOR)	CLW/MS/3/085	<ul style="list-style-type: none"> • Forbe Gokka India Pvt. Ltd./Kolkata 	F-15					
252	Misc. Hardwares	L-9/0021 (MAJOR)	CLW/MS/3/187	<ul style="list-style-type: none"> • Kundan/ Mumbai • APL/ Mumbai 	K-11 A-20					
253	Pop Rivet	M/9/0014 M/9/0019 (MINOR)	CLW/MS/3/091 CLW/ES/3/182	<ul style="list-style-type: none"> • P.N. Plastic 	P-1	<ul style="list-style-type: none"> • Alfred Engg. 	A-21			
254	Safety flooring PVC	T/9/0001 - G9 T/10/0011-P5 (MINOR)	CLW/MS/3/026	<ul style="list-style-type: none"> • Premier Plymer Ltd/GZB • Premier Poly film Ltd./ NDLS 	P-18			<ul style="list-style-type: none"> • Marvel Vinyls Ltd. 		
255	Set of terminal block (Screw type)	P/0/0070a (MINOR)	CLW/ES/3/0645	Conv. Loco approved List to be followed						

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20. Fabricated items (* The Firms suppling first time, prototype clearence shall be obtained before bulk manufacturing)

256	Large Fabricated items (SS) / CATEGORY - STRUCTURAL									
	Cubicle HB1& HB2 (Bare) (SS)	R/9/0038	CLW/MS/3/045	• Navnirman Fab P Ltd	N-3	• Cosmos Engg.	C-20	• Universal Sheet Metal	U-7	
	Cubicle SB1 & SB2 (Bare) (SS)	R/9/0060	CLW/MS/3/045	• Brite Metallaoy	B-22	• Ransal India	R-6			
	Filter Cubicle (Bare) (SS)	R/9/0037	CLW/MS/3/045	• Bhartia Bright & Seamless Steel Pvt. Ltd.	B-9	• Jalan Enterprise	J-8			
	SS Louvre Assembly	R/9/0010	CLW/MS/3/097	• Petro General Engg. Works/Bhilai	P-9	• Resitech Electricals	R-12			
				• Precision techniques	P-16	• J D Engineering	J-1			
				• Trolex India	T-15					
				• Vikrant	V-2					
				• Selvoc Entp	S-15					
				• Special Engg.	S-53					
257	Medium Fabricated Items (SS) / CATEGORY - STRUCTURAL									
	Cubicle 'F' Deriver Cab	R/9/0036	CLW/MS/3/045	• Navnirman Fab P Ltd	N-3	• Cosmos Engg.	C-20	• Kaypee	K-2	
	Filter Frame Assly. (Fly screen)	R/9/0078	1209-11.244-024	• Brite Metallaoy	B-22	• Ransal India	R-6			
	Piano Hinge		1209-11.144-025	• Bhartia Bright & Seamless Steel Pvt. Ltd./Kol	B-9	• Jalan Enterprise	J-8			
		T/9/0011	1209-06.327-040							
	SS Sheets & Plates	T/9/0006	CLW/MS/3/039	• Petro General Engg. Works/Bhilai	P-9	• Resitech Electricals	R-12			
	Transition Duct Assly.	R/9/0047	1209-11.244-024	• Precision techniques	P-16	• Dectal India/HWH	D-3			
	Cover Assly. Security Lock	R/9/0051	1209-11.144-025	• Trolex India/ Bangalore	T-15	• S.D. Engg.	S-1			
	Air Outlet Assly.	R/9/0064	1209.02.127.037	• Vikrant	V-2	• C.S. Engineers	C-1			
			1209-10.337-081	• Selvoc Entp.	S-15	• Universal Sheet Metal	U-7			
				• Special Engg.	S-53					
				• Chandra Udyog	C-5					
				• JD Engg.	J-1					
				• Hydrodyne	H-13					

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258	Small Fabricated Items (SS) / CATEGORY - STRUCTURAL								
	Circuit Breaker Box Assly.		1209-06.142-003 1209-18.406-094 Rev.1&3	• Navnirman Fab P Ltd	N-3	• Cosmos Engg.	C-20	• Ischrotech/Bokaro	I-12
	Extractor Ventilator Rotary Shutter	R/9/0050 T/9/0009	1209-08.330-185 1209-08.330-186	• Brite Metallaoy • Bhartia Bright & Seamless Steel Pvt. Ltd.	B-22 B-9	• Jalan Enterprise • Resitech Electricals	J-8 R-12	• Ilka Metal	I-3
	SS Pressed Section	R/9/0028	CLW/MS/3/038	• Petro General Engg. Works/Bhilai	P-9	• Dectal India/HWH	D-3		
	Lock Quarter turn	T/9/0005	1209-18.306-004	• Precision Techniques	P-16	• Universal Sheet Metal	U-7		
	Set of Metallic plate	R/9/0026	CLW/ES/3/0450	• Trolex India	T-15	• Tirupati	T-11		
	Setof Bracket for WAP5	P/0/0042	CLW/ES/3/0411	• Vikrant	V-2	• National Engg	N-1		
	Set of Bracket	P/0/0179	CLW/ES/3/0411	• Selvoc Entp.	S-15				
	Set of Bracketted sheet (SS)	P/0/0012	CLW/ES/3/0121	• Special Engg.	S-53				
	Set of casing	P/0/0060	CLW/ES/3/0153						
	Set of cover for WAP5	P/0/0019	CLW/ES/3/0134	• Chandra Udyog	C-5				
	Set of cover	P/0/0174	CLW/ES/3/0406	• Hydrodyne	H-13				
	Set of Support	P/0/0022	CLW/ES/3/0139	• CS Engineers	C-1				
	Oil Pump Bracket fixing	P/0/0064	CLW/ES/3/0159	• JD Engg.	J-1				
	Set of clamp	P/0/0014	CLW/ES/3/0148	• SD Engg.	S-15				
	Set of panel plate	P/0/0020	CLW/ES/3/0135	• Precision Electro Engg.	P-17				
	Set of clips for pipes/hoses	P/0/0045	CLW/ES/3/0453	• Kay Pee	K-2				
	Set of looming bar	P/0/0021	CLW/ES/3/0136	• Con tinenta Engg.	C-12				
	Set of Shackle	P/0/0010	CLW/ES/3/0119	• Fabcon	F-1				
	Hinge base assly.	P/0/0059	CLW/ES/3/0152	• Elco Enterprise	E-9				
	Clamps			• Ransal India	R-6				
				• Recon Engg.	R-9				
				• B.K. Ind./HWH	B-2				
				• Universal Elect. Engg/Kol	U-4				

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259	Large Fabricated items (Aluminum) / CATEGORY - STRUCTURAL								
	Door assly. Window assly.	R/9/0015 R/9/0017	CLW/MS/3/013 CLW/MS/3/014	<ul style="list-style-type: none"> • Vikrant • Navnirman Fab P Ltd • Selvoc Entp. 	V-2 N-3 S-15			<ul style="list-style-type: none"> • Chandra Udyog • Bhartia Bright & Seamless Steel Pvt. Ltd. • JD Engg. 	C-5 B-9 J-1
260	Medium Fabricated items (Aluminum) / CATEGORY - STRUCTURAL								
	Wind Screen Assly. Air Diffuser	R/9/0027 S/9/0015	CLW/MS/3/027 1209-08.430-181	<ul style="list-style-type: none"> • Vikrant • Navnirman Fab P Ltd/Kol • Selvoc Entp. • JD Engg. 	V-2 N-3 S-15 J-1	<ul style="list-style-type: none"> • Ransal • Parijat Udyog • Fabcon 	R-12 P-5 F-1	<ul style="list-style-type: none"> • Chandra Udyog • Bhartia Bright & Seamless Steel (P) Ltd. • Super Product 	C-5 B-9 S-36
261	Small Fabricated items (Aluminum) / CATEGORY - STRUCTURAL								
	Al. Chequarred Plate Al. pressed section Al. Sheets & Plates Al. Perforated sheet Cable tray cover Assly. Al. Roof Ladder	T/9/0021 T/9/0017 T/9/0020 T/9/0019 S/9/0030	1209-09.331-039 CLW/MS/3/072 CLW/MS/3/075 CLW/MS/3/074 1209-08.130-167	<ul style="list-style-type: none"> • Vikrant • Navnirman Fab P Ltd/Kol • Selvoc Entp. • JD Engg. • Precision Electro Engg. • Bhartia Bright Seamless & Setel • SD Engg. • Metal Perforators • Universal sheet metal • Kaypee • Sankar Bros/HWH 	V-2 N-3 S-15 J-1 P-17 B-9 S-1 M-7 U-7 K-2 S-54	<ul style="list-style-type: none"> • Ransal • Parijat Udyog • Ardee • CS Engineers • Brite Metalloy • Bera Engg. • Fabcon • Metal Shape • Vanguard 	R-12 P-5 A-1 C-20 B-22 B-7 F-1 M-8 V-1	<ul style="list-style-type: none"> • Chandra Udyog • Super Products • Ischrotech 	C-5 S-36 I-12

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262	MS Fabricated Items (large) / CATEGORY - STRUCTURAL								
(A)	Drivers Desk (Bare)		CLW/MS/3/117	<ul style="list-style-type: none"> • Kaypee Equipt/Hwh • D.R Steel/Kol • Navnirman Fab P Ltd • Chandra Udyog • Brite Metalloy 	K-2 D-11 N-3 C-5 B-22	<ul style="list-style-type: none"> • Techno Fab • Petro General • Fabcon /Kol • Accropoly/Jamshedpur • Hydrodyne/Asansol • Jayshree Ent./Kol • Recon Engg./HWH • Ardee Enterprise/Kol • C.S Engineers/Kol • Vikrant Engg/Kol • Modern Engg./Mihijam • KMRI / Hwh • MS Trading/ASN • Elbe/Howrah • Bhilai Iron &Steel/Bhilai • Jessop and Co /Kol • E.C.Blades & Tools • Selvoc • Boyd Smith • Unique Structural/Hwh • Shiva Engg Works/Kol 	T-4 P-9 F-1 A-40 H-13 J-10 R-9 A-1 C-1 V-2 M-26 K-5 M-27 E-8 B-33 J-13 E-29 S-15 B-21 U-8 S-57	<ul style="list-style-type: none"> • B.S. Fabcon • Metro Steel / Surat • Punjab Inds. Works • Trident Auto/Kanpur • Burn Standard Co • Shree Ram Automobile 	B-32 M-31 P-38 T-23 B-37 S-74
(B)	Duct Assly. for WAG-9, WAP-5 & WAP-7		CLW/MS/3/099 CLW/MS/10/048	<ul style="list-style-type: none"> • Kaypee Equipt/Hwh • D.R Steel/Kol • Navnirman Fab P Ltd • Chandra Udyog • Brite Metalloy 	K-2 D-11 N-3 C-5 B-22	<ul style="list-style-type: none"> • Techno Fab • Petro General • Fabcon /Kol • Accropoly/Jamshedpur • Hydrodyne/Asansol • Jayshree Ent./Kol • Recon Engg./HWH • Ardee Enterprise/Kol • C.S Engineers/Kol • Vikrant Engg/Kol • Modern Engg./Mihijam • KMRI / Hwh 	T-4 P-9 F-1 A-40 H-13 J-10 R-9 A-1 C-1 V-2 M-26 K-5	<ul style="list-style-type: none"> • B.S. Fabcon • Metro Steel / Surat • Punjab Inds. Works • Trident Auto/Kanpur • Burn Standard Co • Shree Ram Automobile 	B-32 M-31 P-38 T-23 B-37 S-74

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						<ul style="list-style-type: none"> • MS Trading/ASN • Elbe/Howrah • Bhilai Iron &Steel/Bhilai • Jessop and Co /Kol • E.C.Blades & Tools • Selvoc • Boyd Smith • Unique Structural/Hwh • Shiva Engg Works/Kol 	<ul style="list-style-type: none"> M-27 E-8 B-33 J-13 E-29 S-15 B-21 U-8 S-57 		
(C)	General Arrangement of floor ventilation ducting		IB -021-0326	<ul style="list-style-type: none"> • Kaypee Equipt/Hwh • D.R Steel/Kol • Navnirman Fab P Ltd • Chandra Udyog • Brite Metalloy 	<ul style="list-style-type: none"> K-2 D-11 N-3 C-5 B-22 	<ul style="list-style-type: none"> • Techno Fab • Petro General • Fabcon /Kol • Accropoly/Jamshedpur • Hydrodyne/Asansol • Jayshree Ent./Kol • Recon Engg./HWH • Ardee Enterprise/Kol • C.S Engineers/Kol • Vikrant Engg/Kol • Modern Engg./Mihijam • KMRI / Hwh • MS Trading/ASN • Elbe/Howrah • Bhilai Iron &Steel/Bhilai • Jessop and Co /Kol • E.C.Blades & Tools • Selvoc • Boyd Smith • Unique Structural/Hwh • Shiva Engg Works/Kol 	<ul style="list-style-type: none"> T-4 P-9 F-1 A-40 H-13 J-10 R-9 A-1 C-1 V-2 M-26 K-5 M-27 E-8 B-33 J-13 E-29 S-15 B-21 U-8 S-57 	<ul style="list-style-type: none"> • B.S. Fabcon • Metro Steel / Surat • Punjab Inds. Works • Trident Auto/Kanpur • Burn Standard Co • Shree Ram Automobile 	<ul style="list-style-type: none"> B-32 M-31 P-38 T-23 B-37 S-74

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263	MS Fabricated Items (Small) / CATEGORY - STRUCTURAL								
	NOTE:- Part-I & Part-II sources of Large Fabricated items(MS) to be considered as Part-II source for small Fabricated items(MS). However prototype approval will be required.								
	Air Outlet Assly.	R/9/0064	1209-10.337-081	• Fabcon/Kol	F-1	• Supertech/Nagpur	S-55	• Ischrotech/Bokaro	I-12
	Platform Assly.	S/9/0036		• Hydrodyne/ASN	H-13	• Acropoly/Jamshedpur	A-40	• Mechem Engg/Hwh	M-28
	Built up steel section	R/9/0067		• Jayshree Ent/Kol	J-10	• Brite Metalloy/Kol	B-22	• Technofab/ Jamshedpur	T-4
	Steel chequarred plates	T/9/0022	CLW/MS/3/077	• GG Industries/Kol	G-13				
	Channel Unistruct	T/9/0015	CLW/MS/3/070	• KMRI	K-5	• Electro Magnetic/Kol	E-24	• Chandra Udyog	
	Cab corner casting	Q/9/0001	1209-08.130-027	• DR Steel/HWH	D-11	• Bhawati Steel/HWH	B-30	• Metro Steel / Surat	M-31
				• Recon Engg./HWH	R-9	• Puskar Techno/ Jamshedpur	P-28		
	Clips	S/9/0020	1209-01.413-013	• Linkers India/STN	L-9	• Commercial Engg./ Jamshedpur	C-22	• Punjab Inds. Works	P-38
	Din Rails	S/9/0012	CLW/MS?3/058	• Aardee Ent./Kol	A-1	• Ram Lal Entp./Varanasi	R-21	• Shiva Engg. Works /Kol	S-57
								• Bhilai Iron & Steel / Bhilai	B-33
	Grill Assly	R/9/0052	1209-08.130-182	• MS Trading/ASN	M-27				
	Merchant flat bars	R/9/0071	1209-08.430-065	• Jay Engg. Works/ASN	J-12	• UK Ent./HWH	U-1	• Mcnally Bharat Engg	
	Step Assly.		CLW/MS/3/106	• Elbe/HWH	E-8	• Tarudeep Ent/Kol	T-1		
	Capacitor Box case	R/9/0084		• Kay Pee Equipt/HWH	K-2	• Vikrant /Kol	V-2	• Burn Standard Co	B-37
				• BB Engg./Kanpur	B-31	• Precision Electro Engg./Hwh	P-17	• Tube Computed Pvt Ltd	
	Hinge base assly.			• Selvoc	S-15				
	Sand Box Assly.	R/9/0049	1209-01.138-031 1209-01.138-032	• Navnirman/Kol	N-3	• Universal Sheet Metal	U-7	• Jessop and Co /Kol	J-13
				• Boyd Smith	B-21				
	Door Latch Assly	S/9/0022	1209-09.233-018	• Hind Engg.	H-15	• Lyod India	L-3		
	Differnet types of Clips			• Metal Engineering	M-6			• E.C.Blades & Tools	E-29
	Clamps and Brackets			• J.D.Engineering	J-1			• Trident Auto/Kanpur	T-23
	Foot step assly.	R/9/0065	CLW/MS/3/103	• Special Engineering	S-53	• Vanguard Engrs/hwh	V-1		
				• Kumar Engg./NDLS	K-16	• Sima Engg./HWH	S-56		
	Clamps	S/9/0013	CLW/MS/3/059	• National Engg./Kol	N-1	• Venus Ent./NDLS	V-6		
				• CS Engineers/Kol	C-1	• Tirupati Engg Works	T-11		
				• Indomake Corpn/HWH	I-15	• Petro Gen Engg /Bhilia	P-9		
				• BS Fabcon/Kol	B-32	• Modern Engg. Works	M-26		
				• J. Sheet metal/HWH	J-11				
				• Kayr Ent./Kol	K-17				
				• Unique Structural/HWH	U-8				
				• A.K. Engg/HWH	A-38				
				• Argus Fab	A-41				

ORDERS ON SOURCES IDENTIFIED FOR DEVELOPMENT TO BE DONE BY CLW ONLY AND NOT BY ZONAL RAILWAYS

Sl. No.	Page No.	EFFECTIVE FROM		VALID TILL	MASTER LIST NO.		VERSION NO.		
	36 of 56	01.07.2010		31.12.2010	CLW/MLAS/3-PHASE		3.0		
	Description	Category No.& Type	Drg. / Specn No.	Part-I	Code	Part-II	Code	Sources identified for development	Code
				<ul style="list-style-type: none"> • Sankar Bros/HWH • Metap shape/HWH • Impex/HWH 	S-54 M-8				

21. Extra Large Fabricated Items (CATAGORY- STRUCTURAL)

- Note:-** (1) Sources of Shell shall be considered approved for constituent Extra Large Fabricated items with same approved status of Shell.
(2) Approved sources for any item of this group shall be considered as SID source for other items also.

264	Roof assly. complete for WAG-9		IB 1O1-00124			<ul style="list-style-type: none"> • Selvoc • Navanirman 	S-15 N-3	<ul style="list-style-type: none"> • Kaypee Eqp. • Pennar Inds Ltd. • Trident Auto Co 	K-2 P-29 T-23
265	Side Wall Assly for WAG-9 / WAG-9H		IBO31-00275-1(RH) IBO31-00276-1 (LH) 1209-03.035.187 (For WAG-9H)			<ul style="list-style-type: none"> • Bhilai Iron & Steel processing corp. • Shiva Engg Works 	B-33 S-57	<ul style="list-style-type: none"> • Accropoly Metal Inds Pvt Ltd • Technofab mfg Ltd 	A-40 T-4
266	Cab Assly Complete for WAG-9		IB O81-00313			<ul style="list-style-type: none"> • Bhilai Iron & Steel processing corp. 	B-33	<ul style="list-style-type: none"> • Metro Steel Inds Ltd/Surat • Technofab mfg Ltd • Accropoly Metal Inds Pvt Ltd 	- M-31 - T-4 A-40
267	Head Stock Assly for WAG -9		IB O21-00313			<ul style="list-style-type: none"> • Bhilai Iron & Steel processing corp. • Shiva Engg Works 	B-33 S-57	<ul style="list-style-type: none"> • Techno Fab mfg. Ltd. 	T-4

22. Shell Assembly

268	Complete Shell Assembly for WAG-9		CLW/MS/3/152					<ul style="list-style-type: none"> • Jessop and Co /Kol • Texmaco Ltd • Cimmco Birla 	J-13 T-24 C-29
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