

क्र. सं. Sl. No.	पृष्ठ सं. / Page No.	से लागू / EFFECTIVE FROM		वैधता / VALID TILL	मूल सूची सं. / MASTER LIST NO.		वर्सन / VERSION NO.		
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	विवरण / Description	श्रेणी/ प्रकार Category / Type	आरेख/स्पेक सं. Drg. / Specn No.	पार्ट-I Part-I	कोड Code	पार्ट-II Part-II	कोड Code	एस.आई.डी. Sources identified for development	कोड Code

1. AUXILIARY MACHINES & ACCESSORIES OF MACHINE ROOM:

Note:- (1) Approved sources of 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-07	• Air Tech Machinery Ltd. • Elgi Equipment Ltd	A-09 E-16		
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-63)	B-05	• ORIENT FANS • Stesalit • RP Machine Tools • Air Control & Chem Engg • Daulat Ram Inds.	O-14 S-53 R-04 A-18 D-04	• Bharat Bijlee Ltd • Tesio / Italy	B-15 T-05
4	Blower for Machine Room	P/0/0132 (MAJOR)	CLW/ES/3/0020	• ABB Flakt Industri AB /Sweden	A-07	• ORIENT FANS • G.T.R. Co. (P) Ltd. • Flakt India /Kol. • ACCEL • Samal Harand • RP Machine Tools	O-14 G-16 F-28 A-18 S-09 R-04		
5	Blower Scavange for Traction Motor and Oil Cooler	P/0/0133 (MAJOR)	CLW/ES/3/0021	• Flosep/South Africa • Samal Harand	F-29 S-09	• Flakt India/Kol. • RP Machine Tools	F-28 R-04	• ACCEL • G.T.R. Co.P Ltd.	A-18 G-16
6	Blower Scavange for Machine Room	P/0/0134 (MINOR)	CLW/ES/3/0022	• Flosep/South Africa	F-29	• RP Machine Tools • ACCEL • Elgi Equipment (Elec) • Samal Harand	R-04 A-18 E-15 S-09	• G.T.R. Co.P Ltd.	G-16

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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 • ACCEL 	A-07 O-14 A-18	<ul style="list-style-type: none"> • Flakt India/Kol. • RP Machine Tools 	F-28 R-04	<ul style="list-style-type: none"> • Bharat Bijlee Ltd • Elgi Equipt (Elec) 	B-15 E-15	
8	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 	P-53 F-11 S-09					
9	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 	P-53 F-11 S-09					
10	Motor for Oil Cooling Unit	P/0/0144 (MAJOR)	CLW/ES/3/0023	Ref. RDSO's approved vendor list.						
11	Motor for Machine Room Blower	P/0/0132 (MAJOR)	RDSO Spec No. E-10/3/09 (Motor), ABB drg no. 3EHP590467R001 CLW/ES/3/0020	• Landert Motoren AG /SWZ	L-01	<ul style="list-style-type: none"> • ABB/Faridabad • CGL, Nasik • Samal Harand, 	A-43 C-29 S-09	• G.T.R. Co.P Ltd.	G-16	
12	Motor for Scavange Blower (TM)	P/0/0133 (MAJOR)	CLW/ES/3/0021	• Landert Motoren AG /SWZ	L-01	<ul style="list-style-type: none"> • ABB /Faridabad • Samal Harand, 	A-43 S-09	• G.T.R. Co.P Ltd.	G-16	
13	Motor for Scavange Blower (MR)	P/0/0134 (MINOR)	CLW/ES/3/0022	• Landert Motoren AG /SWZ	L-01	• Samal Harand,	S-09	• G.T.R. Co.P Ltd.	G-16	
14	Motor for Traction Motor Blower	P/0/0131 (MAJOR)	CLW/ES/3/0019	• Landert Motoren AG /SWZ	L-01	<ul style="list-style-type: none"> • ABB /Faridabad • CGL, Nasik • Bharat Bijlee Ltd 	A-43 C-29 B-15			
15	Motor for Compressor	N/0/0071 (MAJOR)	CLW/ES/3/0100	• Landert Motoren AG /SWZ	L-01	<ul style="list-style-type: none"> • CGL/ Mumbai • Kirloskar / Hosur 		• BBL	B-15	

Note- M/s Saini Electricals, Mumbai, M/s Laxmi Hydraulics, Sholapur, M/s Integrated Electric Co., Bangalore have been approved as educational source for auxiliary motors (Motor for MR Blower & Scavange Blower, Motor for TM Blower & Scavange Blower, Motor for Compressor) vide RDSO letter no EL/3.2.70,dtd 25/02/08, EL/3.2.70, dtd 01/09/08, EL/3.2.70, dtd 30/10/08, respectively.

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2. MACHINE ROOM / POWER EQUIPMENTS & ACCESSORIES:

16	Traction Converter.	P/0/0001 (MAJOR)	CLW/ES/3/0001	<ul style="list-style-type: none"> • Crompton Greaves Ltd. • Bombardier India • BHEL/New Delhi 	C-03 B-36 B-24				
17	Auxiliary Converter Box with control Electronics	P/0/0002 (MAJOR)	CLW/ES/3/0002	<ul style="list-style-type: none"> • Crompton Greaves Ltd. • Bombardier India • BHEL/New Delhi 	C-03 B-36 B-24	<ul style="list-style-type: none"> • Autometers Alliance Ltd. • Hind Rectifiers Ltd. /Mumbai 	A-58 H-14		
18	Central Electronics	P/1/0004 (MAJOR)	CLW/ES/3/0003	<ul style="list-style-type: none"> • Crompton Greaves Ltd. • BHEL / Bangalore • Bombardier India 	C-03 B-25 B-36				
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-01 E-08	<ul style="list-style-type: none"> • Design Centre 	D-09		
20	DC- 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 	M-21 S-34 D-09	<ul style="list-style-type: none"> • M.B. & Co. 	M-01		
21	Transformer Tranela – 15 (Aux. Transformer)	N/0/0120 (MAJOR)	CLW/ES/3/0098	<ul style="list-style-type: none"> • Trafomee S.P.A/ Italy • Patra & Chanda 	T-12 P-06	<ul style="list-style-type: none"> • Cibimer • M.B.& Co 	C-15 M-01	<ul style="list-style-type: none"> • Hind Rectifier Ltd • Mani Electronic (Through Rayco/R-10) • Pabitra Engg Work • Shivalik Electro Components 	H-14 P-05 S-17
22	Earthing Choke	P/0/0135 (MAJOR)	CLW/ES/3/0018	<ul style="list-style-type: none"> • Shivalik Electro Components Pvt. Ltd. • Precesion Electro Engg. 	S-17 P-17				

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23	Fire Detection Equipment	N/0/0037 (MAJOR)	CLW/ES/3/0057	<ul style="list-style-type: none"> Siemens/ Germany Trox India P Ltd 	S-43 T-16				
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 /NDLS/Indian Agent) 	F-05				
25	Key Multiplier set	P/0/0158 (MAJOR)	CLW/ES/3/0049	<ul style="list-style-type: none"> Scheron Ltd./SWZ Patra & Chanda 	S-67 P-06	<ul style="list-style-type: none"> Autometer Alliance Ltd 	A-58	<ul style="list-style-type: none"> Woama Electronics Patron Industrial Corporation 	W-05 P-40
26	Snubber Circuit	N/0/0096 (MAJOR)	CLW/ES/3/0067	<ul style="list-style-type: none"> Adtranz Daimler/SWZ Mechtronik AG 	A-17 M-49			<ul style="list-style-type: none"> Hind Rectifiers/ Mumbai 	H-14
27	Snubber Circuit to contactor auxiliaires	N/0/0069 (MAJOR)	CLW/ES/3/0202	<ul style="list-style-type: none"> Murr Elektronik Trading Co. Gmbh/Germany 	M-37				
28	Surge Arrestor for Current Transformer	N/0/0090 (MAJOR)	CLW/ES/3/0085	<ul style="list-style-type: none"> ABB Hochspannungstechnik AG/SWZ 	A-62				
29	Earth Fault Relay Harmonic Filter / Auxiliary Converter	N/0/0067 (MAJOR)	CLW/ES/3/0090	<ul style="list-style-type: none"> Krishna Engg. Woama Electronics Patra & Chanda 	K-09 W-05 P-06	<ul style="list-style-type: none"> Design Centre 	D-09		
30	Maximum Current Relay in SB-1	N/0/0073 (MAJOR)	CLW/ES/3/0059	<ul style="list-style-type: none"> Secheron Ltd./SWZ Autometers Alliance Ltd 	S-67 A-58				
31	Relay for Control Electronics ON/OFF	N/0/0076 (MAJOR)	CLW/ES/3/0066	<ul style="list-style-type: none"> Schneider Electric / France 	S-78				
32	Minimum Voltage Relay In SB1	N/0/0074 (MAJOR)	CLW/ES/3/0060	<ul style="list-style-type: none"> Mesuco AG/ Swz 	M-41	<ul style="list-style-type: none"> Design center 	D-09		

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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-78				
34	Time Relay for Machine Room Blower Consisting of (I) Contactor / Relay (ii) Time Delay Module		CLW/ES/3/0012	• Schneider Electric/France	S-78				
35	Surge Arrestor For Hotel Load	N/2/0084 (MAJOR)	CLW/ES/3/0313	• ABB/ Swz	A-62				
36	42 KV Gapless lighting arrestor for 25 KV AC locomotives		RDSO/2009/EL/SPEC/XXXX,Rev.0			• Maclean Power System / USA (Through Elastimould Ind. Pvt. Ltd.	E-05		

3. RESISTANCES :

37	Discharging Resistor for Capacitor	N/0/0066 (MAJOR)	CLW/ES/3/0089	• Microelectronica Scientifica • ELECOS	M-37 E-36		• Daulat Ram Inds • Stone India Ltd • RSI Switchgear	D-04 S-54 R-22
38	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	• Danotherm Electronic A/S, Denmark • Resistance India	D-08 R-17	• RGE (Through Rayco Electro Entp. /Code- R-10)		

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39	Load Resistor to Primary Voltage Transformer	P/0/0170 (MAJOR)	CLW/ES/3/0024	<ul style="list-style-type: none"> • B + Z Elektronik AG/ SWZ • Resitech Electricals Pvt. Ltd. 	B-01 R-18	<ul style="list-style-type: none"> • Elecos 	E-36		

4. TRANSFORMER & ACCESSORIES:

40	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/Jhansi • Crompton Greaves Ltd./ Mandideep 	B-36 B-28 C-30	<ul style="list-style-type: none"> • EMCO / Mumbai 	E-41	<ul style="list-style-type: none"> • Areva / Vadodara • High Volt Electricals Pvt. Ltd 	A-60 H-08
41	Main Transformer for WAP-5/WAP-7 (7475 KVA)	(MAJOR)	CLW/ES/3/0315	<ul style="list-style-type: none"> • BT India / Vadodara • BHEL/Jhansi • Crompton Greaves Ltd./ Mandideep 	B-36 B-28 C-30			<ul style="list-style-type: none"> • Areva / Vadodara • High Volt Electricals Pvt. Ltd • EMCO / Mumbai 	A-60 H-08 E-41
42	High Voltage Bushing	N/0/0001 (MEDIUM)	CLW/ES/3/0052	<ul style="list-style-type: none"> • ABB/ Micafill/Swz 	A-87	<ul style="list-style-type: none"> • Elastimold (I) Pvt. Ltd (M/s Elliott Inds. Inc /U.S make Bushing) 	E-05		
43	Set of Metallic Pipe for Main Transformer	P/0/0040 (MAJOR)	CLW/ES/3/0253			<ul style="list-style-type: none"> • Ransal India • Vikrant Engg. Works • D'Ranflex / B'lore 	R-06 V-12 D-18	<ul style="list-style-type: none"> • Petro General Engg Works/Bhilai (MP) • Bhartia Bright & Seamless Steel Ltd 	P-28 B-21
44	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/ N-15) • BEHR/ Germany • APOLLO / Mumbai 	T-05 B-05 A-21			<ul style="list-style-type: none"> • Standard Radiator • Perfect Radiator 	S-111 P-64

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45	H.V. Cables (Termination Systems)	P/0/0079 (MAJOR)	CLW/ES/3/0251	RDSO controlled item.					
46	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 • Recon Engg. 	M-46 S-97 R-13	<ul style="list-style-type: none"> • Bhartia Bright & Seamless Steel/ Kol 	B-21		
47	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-04	<ul style="list-style-type: none"> • Trolex India Pvt. Ltd. 	T-16	<ul style="list-style-type: none"> • Danfoss (Through Oasis) 	D-21
48	Temperature Sensor Oil Circuit Transformer	N/0/0122 (MAJOR)	CLW/ES/3/0033	<ul style="list-style-type: none"> • Almetra AG/ SEWS • Trolex India Pvt. Ltd. 	A-28 T-16	<ul style="list-style-type: none"> • Florican Enterprise 	F-16		
49	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-24			<ul style="list-style-type: none"> • ZHUZHOU Electric Loco research institute / China 	Z-04
5. UNDERFRAME EQUIPMENTS & ACCESSORIES :									
50	Battery (Ni-Cd)	P/0/0008 (MAJOR)	CLW/ES/3/0030	<ul style="list-style-type: none"> • HBL Power Systems Ltd 	H-19	<ul style="list-style-type: none"> • AMCO SAFT India Ltd./ Bangalore 	A-19		
51	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-12 C-13			<ul style="list-style-type: none"> • Mica Mold 	M-47
6. CAB EQUIPMENTS :									
52	Transformer Module Primary Voltage	N/0/0119 (MEDIUM)	CLW/ES/3/0083	<ul style="list-style-type: none"> • M.B. & Co • Krishna Engg. • Patra & Chanda 	M-01 K-09 P-06				

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53	Buzzer for Vigilance/Fire Alarm	N/0/0007 (MAJOR)	CLW/ES/3/0078	<ul style="list-style-type: none"> Siemens Ltd./SWZ Precision Electro Engg Woama Electronics 	S-30 P-17 W-05			<ul style="list-style-type: none"> Krishna Engg. 	K-09
54	Cab Heater/Ventilation	P/0/0136 (MINOR)	CLW/ES/3/0109	<ul style="list-style-type: none"> Precision Electro Engg. ELECOS Esbee Corpn. 	P-17 E-36 E-20	<ul style="list-style-type: none"> Escorts Ltd. 	E-24		
55	Crew Fan	P/0/0015 (MINOR)	CLW/ES/3/0110	<ul style="list-style-type: none"> GTR Co (P) Ltd Ebm Nadi International Pvt. Ltd. 	G-16 E-27	<ul style="list-style-type: none"> Fourlives Engineering 	F-13		
56	Diagnostic Terminal	N/0/0123 (MAJOR)	CLW/ES/3/0080	<ul style="list-style-type: none"> Pixy AG /SWZ Autometer Alliance Ltd 	P-62 A-58			<ul style="list-style-type: none"> Stesalit Ltd. N & S Solution P Ltd 	S-53 N-08
57	Driver's Display Unit	(MAJOR)	CLW/ES/3/0487			<ul style="list-style-type: none"> Advanced Rail Controls Pvt. Ltd (ARC) 	A-31		
58	Master Controller	N/0/0056 (MAJOR)	CLW/ES/3/0031	<ul style="list-style-type: none"> Secheron Ltd./SWZ Stesalit Ltd. Woama Electronics 	S-67 S-53 W-05			<ul style="list-style-type: none"> Gessmann / Gmbh (through Arihant) Schaltban (Through Siemens) 	A-26 S-30
59	Voltmeter Battery	N/0/0125 (MINOR)	CLW/ES/3/0073	<ul style="list-style-type: none"> Mesuco AG/SWZ Galaxy Instruments Sett & De 	M-41 G-07 S-21	<ul style="list-style-type: none"> Samadhan System 	S-36		
60	Catenary Voltmeter	N/0/0124 (MINOR)	CLW/ES/3/0070	<ul style="list-style-type: none"> Mesuco AG/SWZ Galaxy Instruments Sett & De 	M-41 G-07 S-21	<ul style="list-style-type: none"> Samadhan System 	S-36	<ul style="list-style-type: none"> Power Engg. Corp. 	P-57
61	Tractive/Braking Effort Meter	N/0/0057 (MINOR)	CLW/ES/3/0071	<ul style="list-style-type: none"> Mesuco AG/SWZ Samadhan System Galaxy Instrument Sett & De 	M-41 S-36 G-07 S-21				
62	Cab Air Conditioning System		RDSO/2007/EL/ SPEC/0055 (Rev 'O')			<ul style="list-style-type: none"> INTEC Corp./HP SIDWAL Refrigeration Ind. Ltd Fedders Liyod Corp. DRI / Hardwar 	I-38 S-100 F-32 D-04		

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63	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 :

64	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 • Tata Power Ltd/ B'lore • Hind Rectifier Ltd/Kol • Stesalit Ltd 	T-16 T-04 H-13 S-53		
65	Rotary switch for cab heater	P/0/0147 (MAJOR)	CLW/ES/3/0108	<ul style="list-style-type: none"> • Schaltbau / Germany (agent Stesalit/S-53) • Spring AG (OEM) 	S-51 S-84			• Reliable Electronics	R-27
66	Cab Activating Key Switch	N/0/0105 (MAJOR)	CLW/ES/3/0074	<ul style="list-style-type: none"> • Spring AG Apparatefabrik/SWZ • Patra & Chanda 	S-84 P-06				
67	Earthing Switch for VCB	N/0/0082 (MAJOR)	CLW/ES/3/0010	<ul style="list-style-type: none"> • Secheron Ltd./SWZ • Patra & Chanda 	S-67 P-06	• Autometer Alliance Ltd	A-58		
68	Key Switch Simulation in SB-1	N/0/0100 (MAJOR)	CLW/ES/3/0079	• Switcher/Swz (Through Trolex India /Code-T-16)	S-105				
69	Push Button for Emergency Stop	N/0/0112 (MAJOR)	CLW/ES/3/0077	• Elan Schaltelelemente GmbH/ Germany (Through Schmersel)	E-35			• Hotline Switchgear	H-21
70	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 	S-84 W-05	• Chanda & Chanda Engg	C-12	• Hotline Switchgear	H-21

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71	Indication Lamp & Illuminated Push Button & LED	N/0/0055 N/0/0109 N/0/0049 (MAJOR)	CLW/ES/3/0072	• SchneiderElectric / France	S-78	• Hotline Switchgear	H-21		
72	Spring Loaded Switch for 5 items (Instrument Lighting)	N/0/0106 (MEDIUM)	CLW/ES/3/0075	• Schaltbau Aktiengesellschaft/ Germany	S-50			• Woama Electronic • Reliable Electronics	W-05 R-27
73	Auxiliary Switch For HB - 1	N/1/0070 (MAJOR)	CLW/ES/3/0203	• Schneider Elctric / France	S-78				
74	UIC Socket	N/0/0102 (MAJOR)	CLW/ES/3/0047	• Schaltbau/ Germany (agent Stesalit/ S-53)	S-51				

8. ROOF EQUIPMENTS & ACCESSORIES :

75	Pantograph for WAG-9	P/0/0168 (MAJOR)	CLW/ES/3/0006	Ref : Conventional approved vendor list to be followed.					
76	Pantograph for WAP-5	P/0/0168 (MAJOR)	CLW/ES/3/0006						
77	Pantograph Disconnecting + Earthing Device	P/0/0146	CLW/ES/3/0008	• Metal Engineers • Patra & Chanda • Selvoc Enterprise	M-27 P-06 S-19				
78	Surge Arrestor	N/0/0084 (MAJOR)	CLW/ES/3/0016	• ABB Hochspannungstechnik AG/SWZ	A-62	• CGL	C-30	• Oblum/Hyderabad • Areva /Pondichery	O-01
79	Set of Roof Bars	P/1/0078 (MAJOR)	CLW/ES/3/0063 CLW/ES/3/0036	• Metal Engineers • S.D.Engineering	M-27 S-24	• Bhartia Bright & Seamless Steel Ltd./Kol	B-21	• Recoton Engg Corp.	R-32
80	Primary Current Transformer	N/0/0117 (MAJOR)	CLW/ES/3/0013	• BMC Electroplast	B-17	• M.B & Co.	M-01		

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81	Primary Voltage Transformer	N/0/0116 (MAJOR)	CLW/ES/3/0009	• RITZ Instrument Transformer GmbH / Germany	M-39			• BMC Electroplast	B-17
82	Resistor Harmonic Filter for WAG-9 /WAP-7	P/0/0169 (MAJOR)	CLW/ES/3/0015	• Secheron Ltd./SWZ • Sunshine Inds • Daulat Ram Inds • Resitech Electrical (P) ltd	S-67 S-59 D-04 R-18	• RSI Switchgear • ELECOS	R-22 E-36		
83	Resistor Harmonic Filter for WAP-5	(MAJOR)	CLW/ES/3/0307	• Resitech Electrical (P) ltd. • Daulat Ram Industries	R-18 D-04	• ELECOS	E-36		
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			• J.D. Engg Work	J-20		
89	Set of Cable Conduit	P/0/0017 (MAJOR)	CLW/ES/3/0127	• R.S. Components & Control Ltd./ U.K.	R-02	• Jayshree Rubber Prodt	J-12		
90	Set of Cable Gland	P/0/0026 (MEDIUM)	CLW/ES/3/0129	• Gland-Mech Industries • Lapp Cable	G-17 L-08				

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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 Precision Electro Engg Continental Engg. Santi Fibre Industries R.G.Industries Agate Electro Permalli Wallace Micaply National Moulders Atul Industries Shalimar Ind. 	I-06 P-17 C-24 S-25 R-01 A-16 P-08 M-33 N-07 A-54 S-23	<ul style="list-style-type: none"> 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 Fabcon 	S-19 F-01	<ul style="list-style-type: none"> Recoton Engg Metal Engineers 	R-32 M-27		
93	Cable Lug	P/0/0036 (MAJOR)	CLW/ES/3/0130/I	<ul style="list-style-type: none"> Universal M/c Ltd. Kamlesh Industries Electro Crimp Contacts India 	U-23 K-04 E-10	<ul style="list-style-type: none"> KSE Electrical Dowell's 	K-24 D-15	<ul style="list-style-type: none"> Electro Lugs & Terminal 	E-12
94	Al. Cable Cleat	P/1/0086 (MEDIUM)	CLW/ES/3/0039	<ul style="list-style-type: none"> Precision Electro Engg. Patron Inds Corpn. Navanirman Fab P.Ltd 	P-17 P-40 N-19	<ul style="list-style-type: none"> Selvoc Enterprise/ Kol. 	S-19		
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 Continental Engg 	P-17 I-06 C-24	<ul style="list-style-type: none"> R.G.Industries 	R-01		
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 Engg. Santi Fibre Industries 	S-81 P-17 S-25				

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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 	T-18 B-34				
98	Set of Cable Tray	P/0/0068 (MINOR)	CLW/ES/3/0132 CLW/ES/3/0316	<ul style="list-style-type: none"> • Techno Fab. Mfg. Ltd • Brite Metalloy Pvt. Ltd. • Navanirman Fab P.Ltd • Selvoc Entp • Power Products 	T-24 B-41 N-19 S-19 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 	H-03				
100	Copper Sleeves & Set of copper sleeves	P/0/0151 (MAJOR)	CLW/ES/3/0205	<ul style="list-style-type: none"> • Precision Electro Engg. • Patron Industries • Continental Engg. 	P-17 P-40 C-24	<ul style="list-style-type: none"> • Selvoc Enterprise • Metal Engineers 	S-19 M-27		
101	Set of Metallic Hoses (Braided)	P/0/0137 (MEDIUM)	CLW/ES/3/0309	<ul style="list-style-type: none"> • Hubber+Suhner AG/SWZ • Senior Ind. Pvt. Ltd (Through Expansion Below Int./E-22) 	H-10				
102	Braided Protection Sleeve (EIT).	N/3/0115 (MEDIUM)	CLW/ES/3/0154	<ul style="list-style-type: none"> • Union Prestress Pvt. Ltd • Pace Enterprise 	U-08 P-23	<ul style="list-style-type: none"> • Tyco Electronis 	T-20		
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 Electronic (Through SFT Eng/S-108) 	T-20				
	(b) Cable Lug Faston size-9.1 X 0.8"	(MEDIUM)	CLW/ES/3/0643			<ul style="list-style-type: none"> • Perfect Metal Industs • S.K. Enterprise 	P-61 S-110		

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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 Ind Corp. • Pace Enterprise 	T-20 P-23	<ul style="list-style-type: none"> • Union Prestress Pvt. Ltd • PEP CHARLES 	U-08 P-07		
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 • P. N. Plastic 	B-34 P-47	<ul style="list-style-type: none"> • Thomas & Betts (Through Basuki Corp.) 	T-18		
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-58 G-06			<ul style="list-style-type: none"> • Amphenol Interconnect India Pvt. Ltd 	A-22
107	Set of Steel Sleeves	P/0/0152 (MAJOR)	CLW/ES/3/0205	<ul style="list-style-type: none"> • Industrial Moulders & Fabricators (IMF) • Precision Electro Engg. 	I-06 P-17	<ul style="list-style-type: none"> • Patron Inds Corpn. • Continental Engg. 	P-40 C-24		
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-05				

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 	I-06		
110	Set of Insulation	P/0/0028 (MAJOR)	CLW/ES/3/0144	<ul style="list-style-type: none"> • Industrial Moulders & Fabricators • P.N. Plastic 	I-06 P-47				
111	Set of Insulators	P/0/0029 P/0/0195 (MAJOR)	CLW/ES/3/0145	<ul style="list-style-type: none"> • Mica Mold • Alpha Carbon Brush Mfg. Co. • Arco Industries 	M-47 A-25 A-64	<ul style="list-style-type: none"> • B.G Industries • P.N. Plastic 	B-52 P-47		

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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 Prod Swan Rubber 	J-12 S-63	<ul style="list-style-type: none"> MGM Rubber Co. Manish Rubber H.G. Industries Shree Rubber Works Sujan Industries Basant Rubber 	M-32 M-50 H-01 S-27 S-68 B-10	<ul style="list-style-type: none"> Phoenix Rubber 	P-09
113	Set of Gasket Non-metallic	P/0/0027 (MEDIUM)	CLW/ES/3/0142	<ul style="list-style-type: none"> Swan Rubber Industrie Jaishree Rubber Prodt 	S-63 J-12			<ul style="list-style-type: none"> A.B.Elasto Product Phoenix Rubber 	A-34 P-09
114	Set of Non-metallic Hoses	P/0/0139 (MEDIUM)	CLW/ES/3/0094	<ul style="list-style-type: none"> Jaishree Rubber Prodt Sridhar 	J-12 S-101			<ul style="list-style-type: none"> Phoenix Rubber Javimins 	P-09 J-05
115	Hose for Cab Heater		CLW/ES/3/0436			<ul style="list-style-type: none"> Jaishree Rubber Prodt Taurian Tubes (Through Classic India) 	J-12 T-23		
116	Set of Other Hoses		CLW/ES/3/0099			<ul style="list-style-type: none"> Jaishree Rubber Prodt A.B. Elasto Prodt Pvt Ltd 	J-12 A-27		
117	Set of Plastics	P/0/0039 (MEDIUM)	CLW/ES/3/0140	<ul style="list-style-type: none"> Industrial Moulders & Fabricators P.N. Plastic 	I-06 P-47			<ul style="list-style-type: none"> Precision Electro Engg. Santi Fibre Industries(India) 	P-17 S-25
118	Set of Nylon Spacer	N/1/0115 (MINOR)	CLW/ES/3/0154	<ul style="list-style-type: none"> P.N. Plastic K.B.Enterprise 	P-47 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 	P-47				

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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-82				
122	Head Light Housing	N/2/0045 (MAJOR)	CLW/ES/3/0114	<ul style="list-style-type: none"> Southport Engg.(Aust) Pty Ltd./ Australia Precesion Electro Engg. Patra & Chanda 	S-82				
123	Illumination Pneumatic Gauges	P/0/0035 (MAJOR)	CLW/ES/3/0111	<ul style="list-style-type: none"> Krishna Engg. Works Precesion Electro Engg 	K-09				
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 Entp. Precision Electro Engg 	H-06				
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 Engg. 	F-35	<ul style="list-style-type: none"> Krishna Engg. 	K-09		
126	Latching Push Button Corridor Lighting	N/0/0085 (MINOR)	CLW/ES/3/0044	<ul style="list-style-type: none"> Esbee Corporation Precesion Electro Engg Adtranz ABB /SWZ Hotline Switchgear 	E-20				
127	Socket Hand Lamp	P/0/0058 (MINOR)	CLW/ES/3/0082	<ul style="list-style-type: none"> BCH Electric Ltd 	B-65				
128	Marker Light (Front & Rear)	P/0/0159 (MAJOR)		Ref. RDSO's approved vendor list.					

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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-02				
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-02				
131	Capacitor for Scavange Blower MR	N/0/0009 (MAJOR)	CLW/ES/3/0097	<ul style="list-style-type: none"> • EPCOS AG/ Germany • ICAR/Italy 	E-19 I-02				
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-02				
133	Contactora Filter On/Off and adaption	N/0/0010 (MAJOR)	CLW/ES/3/0086	<ul style="list-style-type: none"> • Secheron Ltd./SWZ 	S-67			<ul style="list-style-type: none"> • Autometer Alliance Ltd 	A-58
134	Contactora for Discharging Resistor	N/0/0012 (MAJOR)	CLW/ES/3/0088	<ul style="list-style-type: none"> • Secheron Ltd./SWZ 	S-67			<ul style="list-style-type: none"> • Autometer Alliance Ltd • Woama Electronics 	A-58 W-05
135	Contactora Hotel Load	N/1/0017 (MAJOR)	CLW/ES/3/0308	<ul style="list-style-type: none"> • Secheron Ltd./SWZ 	S-67				
136	Contactora Main Compressor with Snubber Circuit	N/0/0014 (MAJOR)	CLW/ES/3/0095	<ul style="list-style-type: none"> • Schneider Electric / France 	S-78			<ul style="list-style-type: none"> • ABB /Faridabad 	A-43
137	Contactora Auxiliaries in HB-1 & 2	N/0/0068 (MAJOR)	CLW/ES/3/0201	<ul style="list-style-type: none"> • Schneider Electric/France 	S-78			<ul style="list-style-type: none"> • ABB /Faridabad 	A-43
138	Auxiliary Contactora Type No. S163 CIDT/110V	N/0/0068 (MAJOR)	CLW/ES/3/0201	<ul style="list-style-type: none"> • Schaltbau Aktiengesells Chaft/ Germany (Through Siemens / S-30) 	S-50				

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139	Ckt. Breakers with/ Without Auxiliary Contacts(Type- 1)	N/0/0018 (MAJOR)	CLW/ES/3/0037 & CLW/ES/3/0096	<ul style="list-style-type: none"> • ABB SWZ Ltd (Except 3-pole AC, 63 & 40 amps) (Through IDS /Kol; / I-25) • Schneider/ France (Except 1-pole DC, 6-amp) 	A-88 S-78	<ul style="list-style-type: none"> • ABB SWZ Ltd (For 3-pole AC, 63 & 40 amps MCB only) • Schneider/ France (For 1-pole DC, 6-amp, MCB only) 	A-88 S-78		
140	Auxiliary Contactor For VCB / Pantograph In SB1 & SB2	N/0/0021 (MAJOR)	CLW/ES/3/0040	<ul style="list-style-type: none"> • Schneider Electric/France 	S-78				
141	Contactor Type - 4 & Type - 6	N/0/0024 (MAJOR)	CLW/ES/3/0034	<ul style="list-style-type: none"> • Schaltbau Aktiengesells Chaft / Germany 	S-50				
142	Circuit Breaker Battery & SB1 & SB2	N/0/0025 (MAJOR)	CLW/ES/3/0050	<ul style="list-style-type: none"> • Schneider Electric (Merlin Gerin make) • ABB /Faridabad 	S-78 A-43				

14. ADHESIVE / LUBRICANT

143	ABS Solvent Cement Type SIN 1133	P/0/0172 (MEDIUM)	CLW/ES/3/0167	<ul style="list-style-type: none"> • ABS Georgfischer Piping System • Pacific Chemicals 	A-33 P-38				
144	ABS Solvent Cement Type SIN 1193	P/0/0173 (MEDIUM)	CLW/ES/3/0167	<ul style="list-style-type: none"> • ABS Georgfischer Piping System • Pacific Chemicals 	A-33 P-38				

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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 Ind Pvt Ltd (Loctite-406)	H-28				
	(b) Thread Sealing of Bolt & Screws (Removable Type)	P/2/0037 (MEDIUM)		• Henkel adhesive technologies Ind Pvt Ltd (Loctite-241/243)	H-28				
	© Gap sealing for Metallic to Plastic, Rubber to Plastic & Metal to rigid rubber	P/4/0037 (MEDIUM)		• Henkel adhesive technologies Ind Pvt Ltd (Loctite-495)	H-28	• 3M (AC20 or AC40)	M-54	• Anabond Ltd (Anabond 201)	A-75
	(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 Ind Pvt Ltd (Loctite-577)	H-28	• 3M (Ritelock PS-77)	M-54		
	(e) High Strength locking & Sealing of Stud, Nuts, Bolts & axle box assly at screwed condition	P/8/0037 (MEDIUM)		• Henkel adhesive technologies Ind Pvt Ltd (Loctite-271)	H-28	• 3M (Ritelock TL-71)	M-54	• Anabond Ltd (Anabond 112E)	A-75
	(f) Cleaner Cum Activator	P/9/0037 (MEDIUM)		• Henkel adhesive technologies Ind Pvt Ltd (Primer 7471)	H-28	• 3M (Ritelock-AC64)	M-54		
146	Molykote White Long Term W2 or Equivalent	P/0/0171 (MEDIUM)	CLW/ES/3/0170	• J.K. Industries/Mumbai Brand- Noversieze (CU) Gel. • Stanvac Chemicals Ltd. • Castrol India Ltd.	J-02 S-65 C-02				
147	Fire Resistance Cement	P/0/0023 (MEDIUM)	CLW/ES/3/0168/2	• Pacific Chemical	P-38				

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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-06 T-10 E-01		
149	Sika Flex or Equivalent	P/0/0065 (MEDIUM)	CLW/ES/3/0175	• Sika India PVT. Ltd.	S-79	• Henkel	H-28		
150	Anabond 685 RTV Silicon Sealant	(MINOR)	CLW/ES/3/0175	• Anabond Limited	A-75				
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	P-65	• 3 M (Through Coch Com)	M-54 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 • Metal Engineers • Precision Electro Engg 	C-24 M-27 P-17	<ul style="list-style-type: none"> • Patron Industries. • Alpha Carbon Brush 	P-40 A-25		
155	Set of Non Metallic Plate	P/0/0043 (MEDIUM)	CLW/ES/3/0451	<ul style="list-style-type: none"> • Industrial Moulder & Fab • Precision Eletro Engg • Santi Fibre Industries 	I-06 P-17 S-25				
156	Set of Copper Plate	P/0/0044 (MEDIUM)	CLW/ES/3/0452	<ul style="list-style-type: none"> • Precision Electro Engg • Ilka Metal Inds 	P-17 I-03	• S.D. Engineering Co	S-24		
157	Set of Rating Plate	P/0/0080 (MINOR)	CLW/ES/3/0252	• Ilka Metal Inds (P) Ltd	I-03			• Sarweshwar Engg Corp	S-15

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158	Set of Bus Bar	P/0/0009 (MAJOR)	CLW/ES/3/0118 CLW/ES/3/0412	<ul style="list-style-type: none"> • Metal Engineers • CMC Mfg.Co.(P) Ltd • Precision Electro Engg. • Selvoc Enterprise • Patron Industrial Corp. • Chandra Udyog • Atlanta Engg Co. • Indian Metal & Alloy Mfg. Co. 	M-27 C-11 P-17 S-19 P-40 C-13 A-52 I-32			<ul style="list-style-type: none"> • Continental Engg.Works 	C-24
159	Set of Fittings	P/0/0025 (MAJOR)	CLW/ES/3/0125	<ul style="list-style-type: none"> • Selvoc Enterprise 	S-19	<ul style="list-style-type: none"> • S.D. Engineering & Co • Gland Mech Ind. 	S-24 G-17		
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. Engg Work • Universal sheet metal 	J-20 U-20				
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-03				
162	Set of Spacer	P/0/0062 (MINOR)	CLW/ES/3/0156	<ul style="list-style-type: none"> • Continental Engg. • Arco Industries • Metal Engineers • Selvoc Enterprise • Haradhan & Co. 	C-24 A-64 M-27 S-19 H-04			<ul style="list-style-type: none"> • Patron Inds 	P-40
163	Set of Union & Fittings	P/0/0074 (MEDIUM)	CLW/ES/3/0163	<ul style="list-style-type: none"> • Gland Mech.Indus • Fluid Control Pvt Ltd. 	G-17 F-12	<ul style="list-style-type: none"> • Selvoc Enterprise/ Kol • Satya Industries 	S-19 S-16		
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 • Bharatia Bright & Seamless Steel Ltd, Kol • SFT Engineering 	R-06 B-21 S-108				

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165	Set of Disconnection Hotel Load	P/0/0197 (MEDIUM)	CLW/ES/3/0434	• Precision Electro Engg.	P-17				
166	Set of Nipple	P/0/0038 (MEDIUM)	CLW/ES/3/0147	• Parker Hennifin • Gland Mech. Indus	P-52 G-17				
167	Set Of Support for WAP-5 (Uncomon)		CLW/ES/3/0407			• C.S.Engineers	C-01		
168	Wooden Skid		CLW.4W.12000.054			• Santi Fibre Industries(India)	S-25	• M.M.Timber Works	M-58

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 Equip • Tirupati Eng Work • KMRI	S-80 K-08 T-13 K-14	• Anil Engg. • Special Engg	A-35 S-47	• Simplex	S-37
172	Axle Box Complete without Bearing(WAP-5)	R/10/0004 (MAJOR)	IA011-00131 IA011-00132 IA011-00133 IA011-00135	• SKF/Germany(OEM)	S-80	• KMRI • Kaypee Equip	K-14 K-08	• Tirupati Eng Work	T-13
173	Axle Guide Bearing (WAP-5)	R/10/0018 (MAJOR)	IA011-00379			• KMRI • Kaypee Equip • Tirupati Eng Work	K-14 K-08 T-13		
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.					

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175	Bar for bogie head beam	R9/0046 (MAJOR)	1209-01.312-171	<ul style="list-style-type: none"> • Kaypee Equipment • C.S Engg 	K-08 C-01	<ul style="list-style-type: none"> • Simplex Engg & Foundry Works • ASICO Engg • Vanguard Engg 	S-37 A-32 V-01	<ul style="list-style-type: none"> • KMRI • Tirupati Eng Work 	K-14 T-13
176	TM Bellow	S9/0002 (MEDIUM)	CLW/MS/3/006, 1209-01.018-009A1	<ul style="list-style-type: none"> • Jaishree Rubber • LUDOWICI Rubber/ Australia(OEM) • Swan Rubber Inds 	J-12 L-06 S-63	<ul style="list-style-type: none"> • Phoenix Rubber 	P-09	<ul style="list-style-type: none"> • H.G.Industries 	H-01
177	Bogie sealing adhesives	S/10/0002 (MAJOR)	CLW/MS/10/013	<ul style="list-style-type: none"> • Loctite India 	L-07	<ul style="list-style-type: none"> • Anabond/Cal 	A-14		
178	Bolt (Pin)	M/9/0007 (MEDIUM)	1209-01.413-011	<ul style="list-style-type: none"> • Mondal Engg. • Alfred Engg 	M-52 A-74	<ul style="list-style-type: none"> • SRI prakash • C.S. Engg. 	S-41 C-01	<ul style="list-style-type: none"> • U.K.Enterprises 	U-02
179	Bolt	R/9/0045 (MEDIUM)	1209-01.315-017	<ul style="list-style-type: none"> • C.S. Enngg. 	C-01	<ul style="list-style-type: none"> • Tirupati Eng Work • U.K. Enterprises. 	T-13 U-02		
180	Chain	S9/0021 (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 P Ltd 	I-08			<ul style="list-style-type: none"> • Indian Link Chain/Mumbai 	I-21
181	a) Damper (For WAG-9/WAP-5)	R/9/0011 R/10/0005 (MAJOR)	CLW/MS/3/009 1209-01.215-014 (for WAG-9) CLW/MS/10/005 1210-01.215-014 (for WAP-5)	<ul style="list-style-type: none"> • ITT Holdings Czech Republic • Knorr-Bremse /Faridabad 	K-15 K-20	<ul style="list-style-type: none"> • Escorts Ltd/Faridabad • MSA/Italy 	E-24 M-24		
	b) Damper * (For WAP-7)	R/9/0011 (MAJOR)	CLW/MS/3/009 1209-01.215-014	<ul style="list-style-type: none"> • ITT Holdings Czech Republic 	K-15	<ul style="list-style-type: none"> • MSA/Italy 	M-24		
* In WAP-7 only imported hydraulic dampers should be used; as per RDSO's letter no. EL/3.1.35/2 (3-Phase), dtd:31.03.2011									

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	25 of 63	01. 01. 2012		30. 06. 2012	CLW/MLAS/3-PHASE		6.0		
	विवरण / Description	श्रेणी/ प्रकार Category / Type	आरेख/स्पेक सं. Drg. / Specn No.	पार्ट-I Part-I	कोड Code	पार्ट-II Part-II	कोड Code	एस.आई.डी. Sources identified for development	कोड Code
182	Disc Brake Arrangement(WAP-5)	V/10/0001 (MINOR)	IA011-00154 Sheet no.- 1 & 2 IA011-00154 BOM	● Faiveley Transport Ind Ltd	F-31				
183	Drive Assembly Complete(WAP-5)	R/10/0003 (MAJOR)	CLW/MS/10/0003			● KMRI ● Kaypee Equip	K-14 K-08		
184	Fixing cables	T9/0014 (MEDIUM)	1209-01.318-018 1209-01.318-019	● C.S. Engg. ● J.D Engg Work ● Dhar & Co.	C-01 J-20 D-07	● Sales & Service	S-08	● Ma Tara Engg	M-51
185	Flange	R9/0006 (MAJOR)	1209-01.113-007 1209-01.113-027 (Old Design)	● KMRI ● Kaypee Equip ● Tirupati Engg Work	K-14 K-08 T-13				
186	Gears & Pinions for WAP -5 (67:35:17); 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	● KPC	K-16	● BHEL / Bhopal ● SAN Engg ● GGAG	B-26 S-10 G-03	● Hard Rock Electric & Co. Pvt. Ltd ● Shanti Gears Ltd	
187	Gear Case-SGCI (WAG-9 & WAP-7)	R/9/0059 (MAJOR)	1209-01.013-014	● KMRI ● Kaypee Equip ● Tirupati Engg Work	K-14 K-08 T-13			● Eastern Equipt ● Anil Engg ● Simplex Engg & Found. Works	E-03 A-35 S-37
188	Gear Case-AI. (WAP-5)	R/10/0016 (MAJOR)	IA011-00222A	Ref. RDSO's approved vendor list.					
189	Hurth Coupling (WAP-5)	R/10/0009 (MAJOR)	IA011-00234	Ref. RDSO's approved vendor list.					

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190	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/Eng FJPG / Germany LPDN / Germany 	T-11 F-04 L-22	<ul style="list-style-type: none"> Oy Lesjofor AB/ Finland 	L-23	<ul style="list-style-type: none"> Abok Spring/ Jaipur Frontier Spring/ Kanpur G.B. Spring/ Deradhun Bhartiya Mini Spring 	A-38 F-14 G-10 B-11		
191	Holder for TM suspension	R9/001/0007 (MAJOR)	1209-01.118-002	<ul style="list-style-type: none"> KMRI Tirupati Eng Work Kaypee Equip 	K-14 T-13 K-08	<ul style="list-style-type: none"> Special Engg 	S-47	<ul style="list-style-type: none"> Vanguard Engg Anil Engg 	V-01 A-35		
192	Housing	R9/0005 (MEDIUM)	1209-01.113-002 1209-01.113-026 (Old Design)	<ul style="list-style-type: none"> KMRI Kaypee Equip Tirupati Eng Work 	K-14 K-08 T-13	<ul style="list-style-type: none"> Anil Engg. 	A-35				
193	Insulating base	S9/0010 (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-58 B-19 P-47						
194	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-26						
195	Locking Plate	L/9/0029 (MINOR)	1209-01.413-023	<ul style="list-style-type: none"> Alfred Engg 	A-74	<ul style="list-style-type: none"> J.D Engg Work Matara Engg Work A.K Engg 	J-20 M-51 A-02				
196	Necked down bolt	L9/0024 (MINOR)	1209-01.315-006	<ul style="list-style-type: none"> C.S. Engg 	C-01	<ul style="list-style-type: none"> Mondal Engg 	M-52				
197	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.							
198	Pivot	R9/0001 (MAJOR)	1209-01.112-002	<ul style="list-style-type: none"> KMRI Kaypee Equip 	K-14 K-08	<ul style="list-style-type: none"> Tirupati Eng Work Special Engg. 	T-13 S-47				

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199	Ring (Aclathan)	S9/0001	RDSO/2007/EL/ Spec /053	Ref. RDSO's approved vendor list.						
200	S.R. Bearings	R/9/0057	CLW/MS/3/032 1209-01.411-020-021 A-1	Ref. RDSO's approved vendor list.						
201	Sealing (cu. Washer)	L9/0023 (MINOR)	1209-01.412-069	<ul style="list-style-type: none"> J.D. Engg Work RECON 	J-20 R-13	<ul style="list-style-type: none"> C.S.Engg. Mondal Engg 	C-01 M-52			
202	Spacer	T9/0013 (MAJOR)	1209-01.418-004	<ul style="list-style-type: none"> Tirupati Eng Work Radha Engg. Vanguard 	T-13 R-08 V-01					
203	Speri block	R/9/0008	RDSO/2007/EL/ Spec /051	Ref. RDSO's approved vendor list.						
204	Spring guide (Casting)	R9/0002 (MAJOR)	1209-01.212-003	<ul style="list-style-type: none"> KMRI Kaypee Equip Tirupati Eng Work 	K-14 K-08 T-13					
205	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 	G-21 M-32 J-12	<ul style="list-style-type: none"> Tega India Phoenix Rubber 	T-06 P-09	<ul style="list-style-type: none"> Swan Rubber 	S-63	
206	Suspension Tube	R/9/0058 (MAJOR)	CLW/MS/3/052, 1209-01.011-018	Ref. RDSO's approved vendor list.						
207	Set of Tubes	T/9/0012 (MAJOR)	CLW /MS/3/055	<ul style="list-style-type: none"> Kaypee Equip Haradhan & Co Tirupati Eng Work A.K Engg 	K-08 H-04 T-13 A-02	<ul style="list-style-type: none"> Satya Inds 	S-16	<ul style="list-style-type: none"> KMRI Niacton Entp/Kol 	K-14	
208	Threaded Bolt	L/10/0001 (MAJOR)	IA016-00272	<ul style="list-style-type: none"> Haradhan & Co. 	H-04	<ul style="list-style-type: none"> Alfred C.S. Engg. 	A-74 C-01	<ul style="list-style-type: none"> U.K.Entrprises 	U-02	
209	Tube for Head Beam	T/9/0025 (MAJOR)	1209-01.312-160	<ul style="list-style-type: none"> KMRI Tirupati Engg Wks 	K-14 T-13	<ul style="list-style-type: none"> Kapee Equip Satya Industries 	K-08 S-16			
210	Traction Bar Complete (Push / Pull Rod)	T/9/0030 (MEDIUM)	1209-01.113-006	<ul style="list-style-type: none"> KMRI Tirupati Eng Work Kaypee Equip 	K-14 T-13 K-08	<ul style="list-style-type: none"> Satya Industries 	S-16			

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211	Tube Welding	T/9/0026 (MAJOR)	1209-01.313-008	• C.S Engg	C-01	• Haradhan & Co • Satya Industries • Tirupati Eng Work	H-04 S-16 T-13	• KMRI • Kaypee Equip	K-14 K-08
212	Torque Arm (WAP-5)	R/10/0017A (MAJOR)	1210-01-118-012 (Steel Casting)			• KMRI • Kaypee Equip	K-14 K-08	•Tirupati Eng Work	T-13
213	Tread Brake arrgt.Comp. (WAG-9 & WAP-7)	V/9/0001 (MAJOR)	CLW/MS/3/007 1209-01.016-001 1209-01.116-002	• Knorr Bremse /Faridabad • Faiveley Transport Ind Ltd / Hosur	K-20 F-31			• MZT HEPOS AD Macedonia (through Stone India Ltd./Kol)	S-54
214	a) Wheel Set Guide (Steel Casting)	R/9/0009 (MEDIUM)	1209-01.115-004 for WAG-9 1210-01.115-020 for WAP-5	• KMRI • Tirupati Eng Work • Kaypee Equip	K-14 T-13 K-08	• Special Engg • Hindusthan Udyog • Anil Engg.	S-47 H-09 A-35		
	b) Wheel Set Guide (Al. Forging) for WAP-5 Loco	R/10/0001 (MAJOR)	1210.01.115-003			• Chandra Udyog	C-13		
215	Pivot Ring & Housing Ring for WAG-9/ WAP-7	R/9/0092 R/9/0093 (MEDIUM)	1209-01.313-005 & 004			• Tarudeep Entp.	T-03	• Modern Engg. Works	M-35
216	Bogie Frame Assly for WAG-9/WAP-7	R/9/0080 (MAJOR)	i)1209-01.112-001 (WAG-9) ii) 1209-01.212-183 (WAP-7 bogie frame for conv brake rigging)			• Ved Sassomeccanica (Ind) Pvt Ltd / Kanpur	V-09		
217	T.M. Bellow Mounting Assly for WAP-5	R/10/0062 (MINOR)	IA111 - 00039			• C.S.Engineers	C-01		
218	Rubber Support & Rubber Stop (WAP-5)	S/10/0001A & B	IA016-00007 & 00008			• Phoenix Rubber Works • Jaishree Rubber Prodt	P-09 J-12	• Basant Rubber Factory Ltd • Paramount	B-10 P-39

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17. SUPER STRUCTURE :

219	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. Bhartia Bright Seamless & Steels Ltd RP Machine tools 	B-41 B-21 R-04	<ul style="list-style-type: none"> Krebs & Cie C.S Engg Universal Sheet Metal Navanirman Fab P. Ltd 	K-13 C-01 U-20 N-19	<ul style="list-style-type: none"> Precision Technique Encon Enterprise 	P-54 E-42
220	Blind Installation	R/9/0029 (MEDIUM)	CLW/MS/3/035	<ul style="list-style-type: none"> Navnirman Fab P Ltd Selvoc Enterprise Metal Engineers Bhartia Bright Seamless & Steels Ltd./ Kol 	N-19 S-19 M-27 B-21			<ul style="list-style-type: none"> Copper Curves 	C-19
221	Bush Megi HL	R/9/0020 (MINOR)	CLW/MS/3/017	<ul style="list-style-type: none"> MGM Rubber Co Jaishree Rubber 	M-32 J-12			<ul style="list-style-type: none"> Swan Rubber 	S-63
222	Corrugated Flexible Ducting	S/9/0042 (MINOR)	1209 -11.344 - 051	<ul style="list-style-type: none"> Javimins Jaishree Rubber 	J-05 J-12				
223	Door Catch Assly.	S/9/0007 (MEDIUM)	1209-09.433-019	<ul style="list-style-type: none"> C.S. Engg. Works P.N. Plastic 	C-01 P-47				
224	Driver Seat Assly.	R/9/0024 (MEDIUM)	CLW/MS/3/021	<ul style="list-style-type: none"> Eastern Equipment Fabcon Tarudeep Entp. 	E-03 F-01 T-03			<ul style="list-style-type: none"> C.D.Polymer 	
225	Fibre Glass Insulation Kit	R/9/0018 (MEDIUM)	CLW/MS/3/015	<ul style="list-style-type: none"> Lloyd Insualtion (Ind) Ltd Capex 	L-12 C-08				
226	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-03 C-26 J-06				

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227	Fire Extinguisher	R/9/0019 (MAJOR)	CLW/MS/3/016 1209-13-240-025	<ul style="list-style-type: none"> Zenith/ Mumbai Fire Shield 	Z-01 F-09	<ul style="list-style-type: none"> Crash Fire Steelage/ Coimbatore 	C-51 S-93	<ul style="list-style-type: none"> Bhartia Bright Seamless & Steels Ltd./ Kol 	B-21
228	Fire Extinguisher System (22.5 Kgs.)	R/9/109 (MAJOR)	CLW/MS/3/108	<ul style="list-style-type: none"> Fire Shield 	F-09			<ul style="list-style-type: none"> Victory Gas Allarm 	V-03
229	FRP under panel of Cab	R/9/0021 (MINOR)	CLW/MS/3/018	<ul style="list-style-type: none"> Santi Fibre Industries(India) R.G. Industries Industrial Moulder & Fab 	S-25 R-01 I-06				
230	Gasket (non-metallic)	S/9/0019 (MINOR)	CLW/MS/3/062	<ul style="list-style-type: none"> Jayshree Rubber Prodt MGM Rubber Co Swan Rubber Inds. 	J-12 M-32 S-63			<ul style="list-style-type: none"> Die Hard Polymer AB Elasto Product 	D-10 A-27
231	Grommet for wiper pipe pass	S/9/0037 (MEDIUM)	1209-03.330-240	<ul style="list-style-type: none"> MGM Rubber Co. Swan Rubber Jaishree Rubber Prodt 	M-32 S-63 J-12			<ul style="list-style-type: none"> Indian Polymer 	I-27
232	Inter Lock Assly.	R/9/0077 (MAJOR)	CLW/MS/3/111	<ul style="list-style-type: none"> Patra & Chanda 	P-06				
233	Loco Side Buffer	R/9/0023 (MAJOR)	WA/BD-211	Conventional loco sources to be followed.					
234	Plywood (Impregnated Compressed laminated)	S/9/0043 (MINOR)	1209-08.231-013 1209-08.231-014 1209-08.331-015 1209-08.331-016	<ul style="list-style-type: none"> Oriental Veneer Product 	O-02	<ul style="list-style-type: none"> Fashion furniture Tarudeep Ent. India Timber Mysore Polymer 	F-17 T-03 I-14 M-15		
235	Rubber Hose for Scav. Blower	S/9/0032 (MEDIUM)	1209-11.344-046 1209-11.344-052 1209-11.339-037	<ul style="list-style-type: none"> Jaishree Rubber Prodt Swan Rubber Inds 	J-12 S-63				

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236	Sealing Rubber	S/9/0009 (MEDIUM)	CLW/MS/3/034	• Pulsar Rubber	P-56	• National Engg. Industries Ltd.	N-20		

18. PNEUMATIC/ CONTROLLER & HARDWARES :

237	E70 Brake & Pneum system comp.	V9/001/0008	CLW/MS/3/001	Ref. RDSO's approved vendor list.					
238	Brass Pipe fittings	S/9/0025 (MAJOR)	CLW/MS/3/066	• Parker Hennifin Gmbh • Fluid Controls (P) Ltd.	P-52 F-12				
239	Copper Pipe fittings	S/9/0026 (MAJOR)	CLW/MS/3/067	• Alpha Carbon Brush Mfg.Co.	A-25	• ELBE Industrial Works • Bhartia Bright and Seamless Steel/Kol • Selvoc Enterprises • Metal Engineers	E-06 B-21 S-19 M-27		
240	Copper Tubes	T/9/0003 (MAJOR)	CLW/MS/3/030	• Cubex Tubing Ltd • Metal Gem • ALCOBEX/ Jodhpur	C-34 M-25 A-10	• Western Extrusion • R.K Trading	W-04 R-34	• Rajco Metal	R-11
241	Flexible Hose assly.	V/9/0002 (MAJOR)	CLW/MS/3/033	• Hydrax International • SONI Enterprise	H-18 S-44	• Javmins • Sridhar	J-05 S-101		
242	Nylon Tubes	V/9/0011 (MAJOR)	CLW/MS/3/079	• Garware Synthetic Ltd (Through Kohli & Co/K-23) • Manlon Polymers	G-01 M-11	• SMC Pneumatic India /Gurgaon	S-22		
243	Plugs (Steel)	S/9/0023 (MEDIUM)	CLW/MS/3/064	• Super Products • B.K. Industries/ HWH	S-60 B-03				
244	Polypropelene components	S/9/0024 (MEDIUM)	CLW/MS/3/065	• STAUFF Walter/ Germany • P.N. Plastics	S-90 P-47				

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	विवरण / Description	श्रेणी/ प्रकार Category / Type	आरेख/स्पेक सं. Drg. / Specn No.	पार्ट-I Part-I	कोड Code	पार्ट-II Part-II	कोड Code	एस.आई.डी. Sources identified for development	कोड Code
245	Saddle light stauff	S/9/0014 (MINOR)	1209-18.406-053,	• J.D Engg. Work	J-20	• Monosa Engg. Works • Haradhan & Co.	M-63 H-04		
246	Steel. Pipe fittings	S/9/0027 S/10/0007 (MAJOR)	CLW/MS/3/068 CLW/MS/10/018	• Hyd. Air Engg.(P) Ltd • Gland Mech Indus	H-05 G-17	• Fluid Controls (P) Ltd. • Satya Industries	F-12 S-16	• S.D. Industries	
247	S S Pipe fitting	S/9/0008 (MAJOR)	CLW/MS/3/053,	• Parker Hennifin Gmbh • Fluid Controls (P) Ltd.	P-52 F-12			• Jalan Enterprises	J-15
248	S S Tube	T/9/0002 (MAJOR)	CLW/MS/3/029 CLW/MS/10/023	• Heavy Metals & Tubes	H-26	• Choksi Tube Co. Ltd. • Bhartia Bright and Seamless Steel	C-10 B-21		
249	Twin tower air dryer	V/9/0010 (MAJOR)	CLW/MS/3/041	Ref. RDSO's approved vendor list.					
250	Wiper Assly.	(MAJOR)	CLW/MS/3/050	• Knorr-Bremse • Electromech	K-20 E-14	• ELGI	E-16	• Chanda & Chanda	C-12
251	Rubber component for Brake System (3-ph loco)			Ref. RDSO's approved vendor list.					
252	Reservior 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	• D R Steel • Recon Engg • Hydrodyne	D-02 R-13 H-23	• Electromagnetic • Brite metalloy • ELBE Indus. Works • Kreb & cie	E-13 B-41 E-06 K-13		

19. HARDWARES

253	MS Hardwares	M-9/0003 - 0017 (MAJOR)	CLW/MS/3/080 CLW/MS/3/093	• LPS Bossard (P) Ltd. • TVS/ Chennai • Unbreako • Vardhman • GKW	L-15 T-17 U-06 V-02 G-19	• Boltmaster	B-48	Sources of conventional loco for standard hardware also included	
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	विवरण / Description	श्रेणी/ प्रकार Category / Type	आरेख/स्पेक सं. Drg. / Specn No.	पार्ट-I Part-I	कोड Code	पार्ट-ii Part-II	कोड Code	एस.आई.डी. Sources identified for development	कोड Code
254	SS Hardwares	M-9/002 (MAJOR)	CLW/MS/3/040	<ul style="list-style-type: none"> • Kundan/ Mumbai • APL/ Mumbai 	K-22 A-24				
255	Spring Washer	M-9/008 (MAJOR)	CLW/MS/3/085	<ul style="list-style-type: none"> • Forbe Gokka India Pvt. Ltd 	F-15				
256	Misc. Hardwares	L-9/0021 (MAJOR)	CLW/ES/3/187	<ul style="list-style-type: none"> • Kundan/ Mumbai • APL/ Mumbai 	K-22 A-24				
257	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-47	<ul style="list-style-type: none"> • Alfred Engg. 	A-74		
258	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 • Premier Poly film Ltd 	P-55			<ul style="list-style-type: none"> • Marvel Vinyls Ltd. 	
259	Set of terminal block (Screw type)	P/0/0070a (MINOR)	CLW/ES/3/0645	Conv. Loco approved List to be followed					

20. Fabricated items

(* The Firms supplying first time, prototype clearance shall be obtained before bulk manufacturing)

260	Large Fabricated items (SS) / CATEGORY - STRUCTURAL								
	Cubicle HB1& HB2 (Bare)	R/9/0038	CLW/MS/3/047	<ul style="list-style-type: none"> • Navnirman Fab P Ltd 	N-19	<ul style="list-style-type: none"> • Cosmos Engg. 	C-20	<ul style="list-style-type: none"> • Universal Sheet Metal 	U-20
	Cubicle SB1 & SB2 (Bare)	R/9/0060	CLW/MS/3/098	<ul style="list-style-type: none"> • Brite Metallaoy 	B-41	<ul style="list-style-type: none"> • Ransal India 	R-06		
	Filter Cubicle (Bare)	R/9/0037 R/10/0048	CLW/MS/3/046 CLW/MS/10/009	<ul style="list-style-type: none"> • Bhartia Bright & Seamless Steel Pvt. Ltd. 	B-21	<ul style="list-style-type: none"> • Petro General Engg. Works 	P-28		
	SS Louvre Assembly	T/9/0010	CLW/MS/3/097	<ul style="list-style-type: none"> • Precision techniques • Trolex India P Ltd • Vikrant • Selvoc Entp • Special Engg. 	P-54 T-16 V-12 S-19 S-47	<ul style="list-style-type: none"> • Resitech Electricals • J.D. Engg Works • Jalan Enterprise 	R-18 J-20 J-15		

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261	Medium Fabricated Items (SS) / CATEGORY - STRUCTURAL								
	Cubicle 'F' Deriver Cab Filter Frame Assly. (Fly screen)	R/9/0036 R/9/0078	CLW/MS/3/045 1209-11.244-024 1209-11.144-025	• Navnirman Fab P Ltd • Brite Metallaoy	N-19 B-41	• Cosmos Engg. • Ransal India	C-20 R-06	• Kaypee	K-08
	Piano Hinge	T/9/0011	1209-06.327-040	• Bhartia Bright & Seamless Steel Pvt.	B-21	• Jalan Enterprise	J-15		
	SS Sheets & Plates	T/9/0006	CLW/MS/3/039	• Hydrodyne	H-23	• Resitech Electricals	R-18		
	Transition Duct Assly.	R/9/0047	1209-11.244-024 1209-11.144-025	• Precision techniques	P-54	• Petro General Engg. Works	P-28		
	Cover Assly. Security Lock	R/9/0051	1209.02.127.037	• Trolex India P Ltd	T-16	• S.D. Engg.	S-24		
	Sand box Assly.(WAP-5)	R/10/0012	CLW/MS/10/038 1210-07-138-002 1210-07-138-003 1210-07-138-004	• Vikrant • Selvoc Entp. • Special Engg. • Chandra Udyog • J.D Engg. Works	V-12 S-19 S-47 C-13 J-20	• C.S. Engineers • Universal Sheet Metal • Dectal India	C-01 U-20 D-13		
262	Small Fabricated Items (SS) / CATEGORY - STRUCTURAL								
(A)	<u>(Group-1)</u> Circuit Breaker Box Assly. Extractor 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	R/9/0050 T/9/0009 R/9/0028 T/9/0005 P/0/0042 P/0/0060 P/0/0019 P/0/0174 P/0/0022 P/0/0045	1209-06.142-003 1209-08.330-185 1209-08.330-186 CLW/MS/3/038 CLW/ES/3/0450 CLW/ES/3/0153 CLW/ES/3/0134 CLW/ES/3/0406 CLW/ES/3/0139 CLW/ES/3/0453	• Bhartia Bright & Seamless Steel P. Ltd • Brite Metallaoy • Selvoc Entp. • Special Engg. • Chandra Udyog • Hydrodyne • CS Engineers • J.D Engg.Work • SD Engg. • Precision Electro Engg. • Continental Engg. • Fabcon • Recon Engg. • B.K. Ind./HWH	B-21 B-41 S-19 S-47 C-13 H-23 C-01 J-20 S-109 P-17 C-24 F-01 R-13 B-03	• Universal Sheet Metal	U-20		

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(B)	(Group-2)			<ul style="list-style-type: none"> • Bhartia Bright & Seamless Steel P. Ltd. • Brite Metallaoy • Selvoc Entp. • Special Engg. • Chandra Udyog 	B-21	<ul style="list-style-type: none"> • Universal Sheet Metal 	U-20		
	Lock Quarter turn	R/9/0026	1209-18.306-004		B-41				
	Set of clips for pipes /hoses	P/0/0021	CLW/ES/3/0136		S-19				
	Set of looming bars	P/0/0010	CLW/ES/3/0119		S-47				
	Set of Shackle	P/0/0059	CLW/ES/3/0152		C-13				
	Set of clamp	P/0/0020	CLW/ES/3/0135		H-23				
Hinge base assly.				C-01					
Clamps				J-20					
				SD Engg.					
				Precision Electro Engg.					
				Continental Engg.					
				Fabcon					
				Recon Engg.					
				B.K. Ind./HWH					
					B-03				
(C)	(Group-3)			<ul style="list-style-type: none"> • Bhartia Bright & Seamless Steel P. Ltd • Brite Metallaoy • Selvoc Entp. • Special Engg. • Chandra Udyog • Hydrodyne • CS Engineers • J.D Engg.Work • SD Engg. • Precision Electro Engg. • Continental Engg. • Fabcon • Recon Engg. • B.K. Ind./HWH 	B-21	<ul style="list-style-type: none"> • Universal Sheet Metal 	U-20		
	Setof Bracket for WAP5	P/0/0179	CLW/ES/3/0411		B-41				
	Set of Bracket	P/0/0012	CLW/ES/3/0121		S-19				
	Set of Support	P/0/0064	CLW/ES/3/0159		S-47				
	Oil Pump Bracket fixing	P/0/0014	CLW/ES/3/0148		C-13				
					H-23				
				C-01					
				J-20					
				SD Engg.					
				Precision Electro Engg.					
				Continental Engg.					
				Fabcon					
				Recon Engg.					
				B.K. Ind./HWH					
					B-03				

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	विवरण / Description	श्रेणी/ प्रकार Category / Type	आरेख/स्पेक सं. Drg. / Specn No.	पार्ट-I Part-I	कोड Code	पार्ट-II Part-II	कोड Code	एस.आई.डी. Sources identified for development	कोड Code
263	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-12 N-19 S-19			<ul style="list-style-type: none"> • Chandra Udyog • Bhartia Bright & Seamless Steel Pvt. Ltd. • J.D Engg. Work 	C-13 B-21 J-20
264	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 • Selvoc Entp. • J.D Engg. Work 	V-12 N-19 S-19 J-20	<ul style="list-style-type: none"> • Ransal • Parijat Udyog • Fabcon 	R-06 P-51 F-01	<ul style="list-style-type: none"> • Chandra Udyog • Bhartia Bright & Seamless Steel (P) Ltd. • Super Product 	C-13 B-21 S-60
265	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 • Selvoc Entp. • J.D Engg Work • Precision Electro Engg. • Bhartia Bright Seamless & Setel • S.D Engg. • Metal Perforators • Universal sheet metal • Kaypee • Sankar & Brother 	V-12 N-19 S-19 J-20 P-17 B-21 S-24 M-29 U-20 K-08 S-12	<ul style="list-style-type: none"> • Ransal • Parijat Udyog • Aardee • CS Engineers • Brite Metalloy • Bera Engg. • Fabcon • Metal Shape • Vanguard 	R-06 P-51 A-06 C-01 B-41 B-20 F-01 M-30 V-01	<ul style="list-style-type: none"> • Chandra Udyog • Super Products • Ischrotech 	C-13 S-60 I-26

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266	MS Fabricated Items (large) / CATEGORY - STRUCTURAL								
(A)	Drivers Desk (Bare)		CLW/MS/3/117	<ul style="list-style-type: none"> • Kaypee Equipt • D.R Steel • Navnirman Fab P Ltd • Chandra Udyog • Brite Metalloy 	K-08 D-02 N-19 C-13 B-41	<ul style="list-style-type: none"> • Techno Fab mfg • Petro General • Fabcon • Accropoly/Jamshedpur • Hydrodyne • Jayshree Entp. • Recon Engg. • Ardee Enterprise • C.S Engineers • Vikrant Engg • Modern Engg. Works • KMRI • MS Trading/ASN • Elbe/Howrah • Bhilai Iron &Steel/Bhilai • Jessop & Co • E.C.Blades & Tools • Selvoc Entp • Boyd Smith • Unique Structural • Shiva Engg Works 	T-24 P-28 F-01 A-81 H-23 J-11 R-13 A-06 C-01 V-12 M-35 K-14 M-03 E-06 B-60 J-21 E-38 S-19 B-45 U-07 S-83	<ul style="list-style-type: none"> • B.S. Fabcon • Metro Steel • Punjab Inds. Works • Trident Auto comp • Burn Standard Co • Shree Ram Automobile 	B-07 M-31 P-43 T-29 B-42 S-112
(B)	Duct Assly. for WAG-9, WAP-5 & WAP-7			<ul style="list-style-type: none"> • Kaypee Equipt • D.R Steel • Navnirman Fab P Ltd • Chandra Udyog • Brite Metalloy 	K-08 D-02 N-19 C-13 B-41	<ul style="list-style-type: none"> • Techno Fab mfg • Petro General • Fabcon • Accropoly/Jamshedpur • Hydrodyne • Jayshree Entp. • Recon Engg. • Ardee Enterprise • C.S Engineers 	T-24 P-28 F-01 A-81 H-23 J-11 R-13 A-06 C-01	<ul style="list-style-type: none"> • B.S. Fabcon • Metro Steel • Punjab Inds. Works • Trident Auto comp • Burn Standard Co • Shree Ram Automobile 	B-07 M-31 P-43 T-29 B-42 S-112

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			CLW/MS/3/099 CLW/MS/10/048			<ul style="list-style-type: none"> • Vikrant Engg • Modern Engg Work • KMRI • MS Trading/ASN • Elbe/Howrah • Bhilai Iron &Steel/Bhilai • Jessop & Co • E.C.Blades & Tools • Selvoc Entp • Boyd Smith • Unique Structural • Shiva Engg Works 	V-12 M-35 K-14 M-03 E-06 B-60 J-21 E-38 S-19 B-45 U-07 S-83		
(C)	General Arrangement of floor ventilation ducting		IB -021-0326	<ul style="list-style-type: none"> • Kaypee Equipt • D.R Steel • Navnirman Fab P Ltd • Chandra Udyog • Brite Metalloy 	K-08 D-02 N-19 C-13 B-41	<ul style="list-style-type: none"> • Techno Fab mfg • Petro General • Fabcon • Accropoly/Jamshedpur • Hydrodyne • Jayshree Entp. • Recon Engg./HWH • Ardee Enterprise • C.S Engineers • Vikrant Engg • Modern Engg Work • KMRI • MS Trading/ASN • Elbe/Howrah • Bhilai Iron &Steel/Bhilai • Jessop & Co • E.C.Blades & Tools • Selvoc • Boyd Smith • Unique Structural • Shiva Engg Works 	T-24 P-28 F-01 A-81 H-23 J-11 R-13 A-06 C-01 V-12 M-26 K-14 M-03 E-06 B-60 J-21 E-38 S-19 B-45 U-07 S-83	<ul style="list-style-type: none"> • B.S. Fabcon • Metro Steel • Punjab Inds. Works • Trident Auto comp • Burn Standard Co • Shree Ram Automobile 	B-07 M-31 P-43 T-29 B-42 S-112

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267	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.								
	Group-I			<ul style="list-style-type: none"> Fabcon Hydrodyne Jayshree Entp. D.R. Steel Aardee Enterprise M.S. Trading Jay Engg. Works Hind Engg. Co J.D.Engg Work Special Engineering Boyd Smith National Engg Inds C.S. Engineers Indomech Corpn B.S. Fabcon Unique Structural A.K. Engg Sankar & Brother Metal shape Impex/HWH 	F-01 H-23 J-11 D-02 A-06 M-03 J-10 H-11 J-20 S-47 B-45 N-20 C-01 I-17 B-07 U-07 A-02 S-12 M-30 I-04	<ul style="list-style-type: none"> Electro Magnetic Tarudeep Entp. Precision Electro Engg Universal Sheet Metal Tirupati Engg Works Modern Engg. Works 	E-13 T-03 P-17 U-20 T-13 M-35	<ul style="list-style-type: none"> Technofab mfg Chandra Udyog 	T-24 C-13
	Built up steel section	R/9/0067	1209-08.430-029 1209-08.430-030 1209-08.330-033						
	Steel chequarred plates	T/9/0022	CLW/MS/3/077						
	Step Assly.	R/9/0079	1209-06.242-008						
	Step Arrangement(WAP-5)	R/10/0064	IA011-00321						
	Foot Step Assly.(WAG-9)	R/9/0065	CLW/MS/3/103						
	Grill Assly	R/9/0052	1209-08.130-182						
	Merchant Flat bars V/F (For Cab, Sidewall & Roof)	R/9/0071	CLW/MS/3/106						
	Platform Assly.	S/9/0036	IB081-00421						

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

क्र. सं. Sl. No.	पृष्ठ सं. / Page No.	से लागू / EFFECTIVE FROM		वैधता / VALID TILL	मूल सूची सं. / MASTER LIST NO.		वर्सन / VERSION NO.		
	40 of 63	01. 01. 2012		30. 06. 2012	CLW/MLAS/3-PHASE		6.0		
	विवरण / Description	श्रेणी/ प्रकार Category / Type	आरेख/स्पेक सं. Drg. / Specn No.	पार्ट-I Part-I	कोड Code	पार्ट-II Part-II	कोड Code	एस.आई.डी. Sources identified for development	कोड Code
	Group-II			<ul style="list-style-type: none"> Fabcon Hydrodyne Jayshree Entp. D.R. Steel Aardee Enterprise M.S. Trading Jay Engg. Works Hind Engg. Co J.D.Engg Work Special Engineering Boyd Smith National Engg Inds C.S. Engineers Indomech Corpn B.S. Fabcon Unique Structural A.K. Engg Sankar & Brother Metal shape Impex/HWH 	<ul style="list-style-type: none"> F-01 H-23 J-11 D-02 A-06 M-03 J-10 H-11 J-20 S-47 B-45 N-20 C-01 I-17 B-07 U-07 A-02 S-12 M-30 I-04 	<ul style="list-style-type: none"> Electro Magnetic Tarudeep Entp. Precision Electro Engg Universal Sheet Metal Tirupati Engg Works Modern Engg. Works Kaniska Engg. Works 	<ul style="list-style-type: none"> E-13 T-03 P-17 U-20 T-13 M-35 K-28 	<ul style="list-style-type: none"> Technofab mfg Chandra Udyog 	<ul style="list-style-type: none"> T-24 C-13
	Group-III			<ul style="list-style-type: none"> Fabcon Hydrodyne Jayshree Entp. D.R. Steel Aardee Enterprise M.S. Trading Jay Engg. Works Hind Engg. Co J.D.Engg Work Special Engineering Boyd Smith 	<ul style="list-style-type: none"> F-01 H-23 J-11 D-02 A-06 M-03 J-10 H-11 J-20 S-47 B-45 	<ul style="list-style-type: none"> Electro Magnetic Tarudeep Entp. Precision Electro Engg Universal Sheet Metal Tirupati Engg Works Modern Engg. Works 	<ul style="list-style-type: none"> E-13 T-03 P-17 U-20 T-13 M-35 	<ul style="list-style-type: none"> Technofab mfg Chandra Udyog 	<ul style="list-style-type: none"> T-24 C-13

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

क्र. सं. Sl. No.	पृष्ठ सं. / Page No.	से लागू / EFFECTIVE FROM		वैधता / VALID TILL	मूल सूची सं. / MASTER LIST NO.		वर्सन / VERSION NO.		
	41 of 63	01. 01. 2012		30. 06. 2012	CLW/MLAS/3-PHASE		6.0		
	विवरण / Description	श्रेणी/ प्रकार Category / Type	आरेख/स्पेक सं. Drg. / Specn No.	पार्ट-I Part-I	कोड Code	पार्ट-II Part-II	कोड Code	एस.आई.डी. Sources identified for development	कोड Code
	Clips-Pneumatic items	S/9/0020	1209-01.413-013	• National Engg Inds	N-20				
		S/10/0020	1209-18.406-087 1209-18.406-094	• C.S. Engineers	C-01				
	Clamps-Pneumatic items	S/9/0013	CLW/MS/3/059	• Indomech Corpn	I-17				
		S/10/0013	CLW/MS/10/045	• B.S. Fabcon	B-07				
				• Unique Structural	U-07				
				• A.K. Engg	A-02				
				• Sankar & Brother	S-12				
				• Metal shape	M-30				
				• Impex/HWH	I-04				
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.									
268	Roof assly. complete for WAG-9		IB 101-00124			• Selvoc Entp. • Navanirman Fab • Trident Auto Comp.	S-19 N-19 T-29	• Kaypee Eqp. • Pennar Inds Ltd	K-08 P-44
269	Side Wall Assly for WAG-9 / WAG-9H		IBO31-00275-1 (RH) IBO31-00276-1 (LH) 1209-03.035.187 (For WAG-9H)	• Bhilai Iron & Steel processing corp. • Shiva Engg Works	B-60 S-83	• Navanirman Fab • Trident Auto Comp.	N-19 T-29	• Accropoly Metal Inds Pvt Ltd • Technofab mfg Ltd	A-81 T-24
270	Cab Assly Complete for WAG-9		IB O81-00313			• Bhilai Iron & Steel processing corp. • Metro Steel Inds Ltd • Selvoc Entp.	B-60 M-31 S-19	• Technofab mfg Ltd • Accropoly Metal Inds Pvt Ltd	T-24 A-81

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

क्र. सं. Sl. No.	पृष्ठ सं. / Page No.	से लागू / EFFECTIVE FROM		वैधता / VALID TILL	मूल सूची सं. / MASTER LIST NO.		वर्सन / VERSION NO.		
	42 of 63	01. 01. 2012		30. 06. 2012	CLW/MLAS/3-PHASE		6.0		
	विवरण / Description	श्रेणी/ प्रकार Category / Type	आरेख/स्पेक सं. Drg. / Specn No.	पार्ट-I Part-I	कोड Code	पार्ट-II Part-II	कोड Code	एस.आई.डी. Sources identified for development	कोड Code
271	Head Stock Assly for WAG -9		IB O21-00313	<ul style="list-style-type: none"> Bhilai Iron & Steel processing corp. Shiva Engg Works Techno Fab mfg. Ltd. 	B-60 S-83 T-24				
272	Centre Sill Assly. Complete For WAG-9	R/9/0100	1209-02-126-012			<ul style="list-style-type: none"> Shiva Engg Works Bhilai Iron & Steel processing corp. 	S-83 B-60		
273	Centre Sill Assly. Complete For WAP-5	R/10/0067	IA-021/00045			<ul style="list-style-type: none"> Shiva Engg Works 	S-83		
274	Central Underframe Assly For WAG-9 & WAP-7	R/9/0103	IB021-00254			<ul style="list-style-type: none"> Bhilai Iron & Steel processing corp. Trident Auto Comp. E.C. Blades & Tools 	B-60 T-29 E-38		

22. Shell Assembly

275	Complete Shell Assembly for WAG-9		CLW/MS/3/152				<ul style="list-style-type: none"> Jessop & Co Texmaco Ltd Cimmco Ltd 	J-21 T-09 C-16
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