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SL. No.	ITEM	CATGORY	CURRENT SPECN.	CATEGORY OF APPROVED VENDORS				
				PART -I (REGULAR)	CODE	PART -II (DEVELOPMENTAL)	CODE	SOURCES IDENTIFIED FOR DEVELOPMENT

**CLW APPROVED LIST OF SOURCES FOR ELECTRIC LOCOMOTIVES WAG-7 & WAP-4 COMPONENTS
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1. AUXILIARY MACHINES & ACCESSORIES

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.	180 KVA Static Converter		RDSO Spec no ELRS/Spec/SI/0018	RDSO controlled item. RDSO approved latest version vendor list to be followed.					
2.	Blower VSL	MAJOR	CLW/ES/B-14	<ul style="list-style-type: none"> • ABB • Samal Harand. • R.P.Machine Tool 	A-07 S-09 R-04	<ul style="list-style-type: none"> • G.T.R Co. 	G-16		
3.	Blower VSI	MAJOR	CLW/ES/B-14	<ul style="list-style-type: none"> • ABB • Samal Harand. • R.P.Machine Tool 	A-07 S-09 R-04	<ul style="list-style-type: none"> • G.T.R Co. 	G-16		
4.	Blower VRH	MAJOR	CLW/ES/B-14	<ul style="list-style-type: none"> • ABB • ORIENT FANS • Bharat Bijlee • R.P.Machine Tool • ACCEL 	A-07 O-14 B-15 R-04 A-18	<ul style="list-style-type: none"> • CGL 	C-32		
5.	Blower VMT	MAJOR	CLW/ES/B-14	<ul style="list-style-type: none"> • ABB • ORIENT FANS • Bharat Bijlee • R.P.Machine Tool • ACCEL 	A-07 O-14 B-15 R-04 A-18	<ul style="list-style-type: none"> • CGL 	C-32		
6.	Compressor 1000 LPM	MAJOR	CLW/ES/C-34	RDSO controlled item. RDSO approved latest version vendor list to be followed.					
7.	Under Slung Compressor 1500 LPM		ELRS/SPEC/AUX /0026	RDSO controlled item. RDSO approved latest version vendor list to be followed.					

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8.	Compressor Aux. (MCPA)	MAJOR	CLW/ES/C-4	<ul style="list-style-type: none"> Elgi Equipment Coimbatore compressor 	E-17 C-18					
9.	MVMT (H Class)	MAJOR	CLW/ES/B-14	RDSO controlled item. RDSO approved latest version vendor list to be followed.						
10.	MVRH (H Class)	MAJOR	CLW/ES/B-14	RDSO controlled item. RDSO approved latest version vendor list to be followed.						
11.	MCP (14 HP) (H Class, High Starting Torque) above 17 Kgm. at 290 V	MAJOR	CLW/ES/C-34	RDSO controlled item. RDSO approved latest version vendor list to be followed.						
12.	MVSL (Class H)	MAJOR	CLW/ES/B-14	RDSO controlled item. RDSO approved latest version vendor list to be followed.						
13.	MVSI (Class H)	MAJOR	CLW/ES/B-14	RDSO controlled item. RDSO approved latest version vendor list to be followed.						
14.	After Cooler	MAJOR	CLW/ES/A-11	<ul style="list-style-type: none"> Vikrant Atlanta Engineering Asian Cooling 	V-12 A-52 A-44					
15.	Oil Pump with Motor	MAJOR	CLW/ES/O1	<ul style="list-style-type: none"> Samal Harand Flowell pumps CGL 	S-09 F-11 C-32					

2. TRANSFORMER , MAIN RECTIFIER & ACCESSORIES

16.	Silicon Rectifier High Capacity	MAJOR	CLW/ES/R-33CLW/ES/B14	RDSO controlled item. RDSO approved latest version vendor list to be followed.						
17.	Tap Changer	MAJOR	CLW/ES/T-28	RDSO controlled item. RDSO approved latest version vendor list to be followed.						
18.	Breaking Excitation Transformer (ATFEX) 60 KVA	MEDIUM	CLW/ES/T-20	<ul style="list-style-type: none"> Light Equipment Pabitra Engg 	L-09 P-05	<ul style="list-style-type: none"> Usha India Ltd. TESLA Transformer 	U-16 T-19	<ul style="list-style-type: none"> Koyna Engg 	K-27	

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19.	Transformer for cab fan (TFVT)	MINOR	CLW/ES/T-29	<ul style="list-style-type: none"> Light Equipment. M.B.& Co. Pabitra Engg Elect. & Electronics 	L-09 M-01 P-05 E-09	<ul style="list-style-type: none"> OM Enterprise/Kol 	O-9		
20.	Oil Cooler Radiator (165 KW)	MAJOR	CLW/ES/O-4	<ul style="list-style-type: none"> Unifame Corpn Asian Cooling 	U-04 A-44	<ul style="list-style-type: none"> Asian Radiators Universal Heat Exchanger 	A-46 U-14		
21.	Oil Cooler Radiator / 165 KW (Aluminium Construction)	MAJOR	CLW/ES/SK-1/0-4					<ul style="list-style-type: none"> Perfect Radiator & Oil Cooler Pvt. Ltd Appolo Inds Corp/Mum 	
22.	Transformer Main (TFP) 5400 KVA	MAJOR	CLW/ES/T-22	RDSO controlled item. RDSO approved latest version vendor list to be followed.					
23.	Cable Head Termination system with vertical receptacle	MAJOR	ELRS/SPC/BL/0003	RDSO controlled item. RDSO approved latest version vendor list to be followed.					
24.	A)Diode (Blocking 10 A) B) Diode (Blocking 12 A) for train parting ckt. C) Diode(Blocking 25 A)	MAJOR	CLW/ES/SK-1/D-1 CLW/ES/D-2	<ul style="list-style-type: none"> Hind Rectifier. 	H-14	<ul style="list-style-type: none"> Usha Rectifier. Orient semiconductor Pvt ltd. 	U-16 O-08	<ul style="list-style-type: none"> Keltron Diodes 	K-31

3. SWITCH GEARS, SURGE ARRESTORS & ROOF EQUIPMENTS

25.	VCB (Single Bottle)	MAJOR	CLW/ES/C-47	<ul style="list-style-type: none"> BT/Vadodara AAL/Noida AREVA T&D Ind ltd 	B-36 A-56 A-60	<ul style="list-style-type: none"> Bicco Lawrie Ltd/ Kol 	B-44		
26.	Pantograph a) AM-12 or similar b) AM-92 or similar	MAJOR	CLW/ES/P-1 CLW/ES/P-5	RDSO controlled item. RDSO approved latest version vendor list to be followed.					

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27.	Roof Line Fittings.	MAJOR	CLW/ES/C-49	<ul style="list-style-type: none"> Alasia Engg. Metal Engineers. Continental Engg. Works 	A-20 M-27 C-24					
28.	a) Surge Arrestor (LTBA)	MAJOR	Spec/E-11/3/01 Spec/E-11/3/01(Rev-A)	<ul style="list-style-type: none"> CGL Maclean (Through EIPL; Code-E-05) 	C-32 M-65	<ul style="list-style-type: none"> Oblum Elect. ABB/SWZ 	O-01 A-61			
	b) Roof Surge Arrestor ET-2 Gapless	MAJOR	CLW/ES/A-12	<ul style="list-style-type: none"> CGL 	C-32	<ul style="list-style-type: none"> Oblum Elect. ABB/SWZ ELPRO LAMCO M.P.C (Through EIPL /Code-E-05) 	O-01 A-61 E-28 L-03			
	c) Surge Arrestor (ETTFP /1.5 KV/ 2.5 KA)	MAJOR	CLW/ES/A-8 CLW/ES/Sk-1/A-8	<ul style="list-style-type: none"> CGL 	C-32	<ul style="list-style-type: none"> Oblum Elect. ABB/SWZ 	O-01 A-61			
29.	a) Battery for Electric Locos 75 AH b) Low Maintenance Lead acid Batteries 75AH		IS-7660-1988 RDSO/PE/Spec/D/EM U/0014-2000/(Rev.0)	RDSO controlled item. RDSO approved latest version vendor list to be followed.						
30.	Miniature Circuit Breaker	MAJOR	CLW/ES/C-32	RDSO controlled item. RDSO approved latest version vendor list to be followed.						
31.	(a) HRC Fuse (D-Type), 2 to 35 Amps	MAJOR	CLW/ES/F-8 CLW/ES/SK-1/F-8 IS-13703-1993	<ul style="list-style-type: none"> BL Fusegear (Through Western Electric & Trading Co) Ferraz/France Bussman 	B-35 F-05 B-43	<ul style="list-style-type: none"> Viral controlgear (Through Rayco Electro Entp / R-10) 				
	(b) HRC Fuse (Semiconductor Type) 100 Amps	MAJOR	CLW/ES/SK-3/F-8	<ul style="list-style-type: none"> Ferraz/France Bussman Panickker Switchgear (Through Technocraft/ T-28) 	F-05 B-43					

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4. CABLES & ACCESSORIES

32.	Cable Socket/Cable Terminals.	MAJOR	CLW/ES/S-25	<ul style="list-style-type: none"> • KSE Electrical Pvt Ltd. • UML Engg.P. Ltd. • Kamalesh Industries • Chetana Engg. Nasik • Electro Crimp Contact • Electro lugs & Terminals Pvt ltd 	K-24 U-03 K-04 C-14 E-10 E-12	<ul style="list-style-type: none"> • Dowell 	D-15		
33.	Cable Ties	MEDIUM	CLW/ES/C-54	<ul style="list-style-type: none"> • Sure Lock Plastik • Black Burn 	S-61 B-34	<ul style="list-style-type: none"> • Ashwin Electro Industrial Corp. 	A-41		
34.	Coupler (Ext. & Int.)	MAJOR	CLW/ES/C-8	<ul style="list-style-type: none"> • Asian Plastic • Alasia Engg.Co. • Precision Electro Engg • Sunshine Ind./ Hwh 	A-45 A-20 P-17 S 59	<ul style="list-style-type: none"> • Plasto Metal Industries. 	P-12		
35.	Heat Shrinkable Sleeve (Polyolefin)	MAJOR	CLW/ES/I-15	<ul style="list-style-type: none"> • Rehau AG marketed by Tirumala seven hills • REPL Engg. • PEP Charles/ B'lore 	R-15 R-16 P-07	<ul style="list-style-type: none"> • PACE Enter prise. • Tyco Electronics 	P-23 T-20		
36.	Conduit Pipe	MAJOR	IS:1653/1972	<ul style="list-style-type: none"> • R.N. Dutta • Steel Crafts • Eastern Steel Equipt. • Allied Engg.Co. • Avon Elec. Co./Kol 	R-03 S-52 E-02 A-23 A-59				
37.	a) Cable Elastomeric b) Thin walled cables (Chemical curing / Electron Beam Irradiation curing)		CLW/ES/C-41 CLW/ES/C-51	RDSO controlled item. RDSO approved latest version vendor list to be followed.					

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38.	Code Marker.	MINOR	CLW/ES/C-5	<ul style="list-style-type: none"> • KSE Electrical • Sarweshwar Engg.Corpn. • Vidyut Udyog • Mayfair Electricals. • Bombay Traders 	K-24 S-15 V-10 M-19 B-39	<ul style="list-style-type: none"> • Permacel Hipical Brand 	P-24		

5. INSULATIONS & ACCESSORIES

39.	SRBGF Items (cable cleat, SRBGF, Insulating sheet assly for RPS, Insulated support for terminal SB-4 Insulated Support for EP Contactor.)	MEDIUM	CLW/ES/C-53 CLW/ES/I-19 CLE/ES/I-23 CLW/ES/I-24 CLW/ES/I-10 CLW/ES/I-28 CLW.4W.8009.128A (IS; 10192) CLW.4W.9009.118 (IS; 10192)	<ul style="list-style-type: none"> • R.G.Industries. • Industrial Moulders & Fabricators • Agate Electrical/ Bangalore • Parmalli Wallace/ Bhopal • Micaply • Shanti Fibre Industries Ltd • National Moulders. • Atul Industries • Shalimar Ind. • Glass Fibre & Allied Ind 	R-01 I-06 A-16 P-08 M-33 S-25 N-07 A-54 S-23 G-12			<ul style="list-style-type: none"> • P. N. Plastic/Kol 	P-28
40.	Insulator Panto and Roofline.	MAJOR	CLW/ES/AC/I-1 CLW/ES/Sk-4/AC/I-1	<ul style="list-style-type: none"> • BHEL/Bangalore • Insulator & Electrical • WS Industries 	B-25 I-24 W-02			* Saravona Insulator, Cuddalore	S-14A
41.	Insulator Nylon	MEDIUM	CLW/ES/I-3	<ul style="list-style-type: none"> • Adson • .Plasto Metal 	A-12 P-12	<ul style="list-style-type: none"> • P. N. Plastic/Kol 	P-28		

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42.	Insulating Screen Type 2A & 4A.	MINOR	CLW/ES/I-17	<ul style="list-style-type: none"> • Asian Plastic • National Moulders. • Industrial Moulders & Fabricators. • Precision Electro Engg • Electro Engg. Corpn 	A-45 N-07 I-06 P-17 E-11	<ul style="list-style-type: none"> • Lakho's Electrical 	L-02		

6. RUBBER ITEMS

43.	Rubber Items (Twelve items) named Rubber Spacer, Rubber Packing, Rubber Grommet, U-Shape Rubber, Rubber Entry Bush, Rubber End Ring, Rubber Gasket, Rubber Item (Extruded) Rubber gasket,stops etc. Roof sealing Rubber Cover for T.M. Cable joint,	MINOR	CLW/ES/R-24 ASTMD-1056 Gr.RE-43 Gr CLW.4P.2099.67 CLW/AC/1007.14 IS:638 Type-B CLW/ES/R-19 CLW.4P.8009.68 01/3/44/52 01/4/35/73 05/4/33/13 0/4/65/286 03/4/47/168 03/3/47/164 05/3/47/468 ASTM –D 156 RE-43C CLW/ES/C-16 CLW/ES/C-16/SK-2	<ul style="list-style-type: none"> • MGM Rubber Co. • Swan Rubber Industries • Jayshree Rubber • Manish Rubber Industries • H.G.Industries • Shree Rubber Works • Phoenix • Sujan Ind. • Bassant Rubber 	M-32 S-63 J-12 M-13 H-01 S-27 P-09 S-68 B-10	<ul style="list-style-type: none"> • Rubber Products • Bharat Oil Seals • Quality Rubber Industries • A.B.Elasto Product 	R-24 B-18 Q-02 A-64	<ul style="list-style-type: none"> • Maxworth Rubber • Metalastik Mfg. Company • Indian Oil Seals & Synthetic Products 	M-42 M-43 I-13
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7. CAB EQUIPMENTS, INSTRUMENTS & RELAYS

44.	Current Transformer (ELM, TFILM, RSILM, TFLA)	MAJOR	CLW/ES/T-27	<ul style="list-style-type: none"> • M.B &.Co. • Pabitra Engg. • Light Equipments 	M-01 P-05 L-09			<ul style="list-style-type: none"> • OM Enterprise 	O-09
45.	TM Voltmeter, TM Ammeter, Aux. Line Voltmeter, Battery Voltmeter.	MINOR	CLW/ES/I-21 CLW/ES/I-26	<ul style="list-style-type: none"> • Mecco Instrument • Sett & De • Galaxy Instruments/ Cal • Sonata Industrial 	M-23 S-21 G-07 S-42	<ul style="list-style-type: none"> • Power Engg Corporation (P) Ltd. 	P-14		
46.	Microprocessor Based Control and Fault Diagnostic System		ELRS/SPEC/MPC/FDS /OO1/Rev'2, August'05	RDSO controlled item. RDSO approved latest version vendor list to be followed.					
47.	Relay Wheel Slip Detection (QD) & Relay TM over Voltage.(Q20)		CLW/ES/R-20	RDSO controlled item. RDSO approved latest version vendor list to be followed.					
48.	Relay Time Delay QTD 105/106 & Q48		CLW/ES/R-1 & CLW/ES/R-12	RDSO controlled item. RDSO approved latest version vendor list to be followed.					
49.	Relay Signalling Q51, QV61, QV62, QV63, QV64, QVLSOL & QCVAR		CLW/ES/R-2	RDSO controlled item. RDSO approved latest version vendor list to be followed.					
50.	Time Delay Protective Relay Q44/ Q118		CLW/ES/R-27	RDSO controlled item. RDSO approved latest version vendor list to be followed.					
51.	Protective Relays (D1/DU type) QLM, QRSI, QE, QF, QOP, QOA, Q30, QLA		CLW/ES/R-27	RDSO controlled item. RDSO approved latest version vendor list to be followed.					
52.	Relay Air Flow (Diaphragm type) QVMT/ QVRH/ QVSL/QVSI		CLW/ES/R-34	RDSO controlled item. RDSO approved latest version vendor list to be followed.					

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53.	Relay Sequence (Q46, Q49, Q52, QWC etc)		CLW/ES/R-27	RDSO controlled item. RDSO approved latest version vendor list to be followed.					
54.	Oil Flow Indicator (QPH)		CLW/ES/S-24	RDSO controlled item. RDSO approved latest version vendor list to be followed.					
55.	Microprocessor based Speedometer.		ELRS/SPEC/SPM/0002 /Rev'2, June'04	RDSO controlled item. RDSO approved latest version vendor list to be followed.					
56.	Signalling Horn (SON, BCR & B)	MAJOR	CLW/ES/H-5	<ul style="list-style-type: none"> • Woama Electronics • Precision Electro Engg. • Electrical & Electronics 	W-05 P-17 E-09				
57.	Cab Fan	MINOR	CLW/ES/F-4	<ul style="list-style-type: none"> • Ventwell Corporation • R.P.Sinha & Co. • Suburban Electricals • GTR 	V-07 R-05 S-56 G-16				
58.	Cab Heater	MINOR	CLW/ES/H-1 CLW/ES/SK-2/H-1	<ul style="list-style-type: none"> • Heatem Engg.Co. • Resistance India. • Precision Electro Engg 	H-07 R-17 P-17				
59.	Transformer for Walkie-Talkie Charger	MINOR	CLW/ES/ T - 30	<ul style="list-style-type: none"> • M.B. & Co. • Electrical & Electronics Ind. Corp 	M-01 E-09	• OM Enterprise	O-09		
60.	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-38 S-100 D-04	• Fedders Lioyd Corp/HP	F-32

8. SWITCHES

61.	a. Magnet Valve	MAJOR	CLW/ES/M-2	<ul style="list-style-type: none"> • Rotex • Recon • Product Mix • Cibimar & Co 	R-20 R-13 P-19 C-15	• Inspros/BPL	I-23		
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	b. Magnet Valve MV 4	MAJOR		<ul style="list-style-type: none"> Rotex Automation Ltd Cibimar & Co 	R-20 C-15	<ul style="list-style-type: none"> Recon 	R-13	<ul style="list-style-type: none"> Product Mix 	P-19
62.	Pressure Switch	MAJOR	CLW/ES/S-24	<ul style="list-style-type: none"> Indfoss 	I-07	<ul style="list-style-type: none"> Vasu Tech Ltd 	V -04	<ul style="list-style-type: none"> Danfoss 	D-21
63.	Programme Switch	MAJOR	CLW/ES/S-1	<ul style="list-style-type: none"> Siemens (Mfd. by Technofour Combines Pvt. Ltd.) 	S-30				
64.	Knife Switch HQOP & HOBA	MAJOR	CLW/ES/S-2	<ul style="list-style-type: none"> Reform Electric Electro Engg. Plasto Metal 	R-14 E-11 P-12				
65.	Switch Earthing HOM	MAJOR	CLW/ES/S-6	<ul style="list-style-type: none"> Elbe Atlanta Patra & Chandra 	E-06 A-52 P-06				
66.	Push Button Switch	MAJOR	CLW/ES/S-8	<ul style="list-style-type: none"> Bhartia Industries Ltd. 	B-22			<ul style="list-style-type: none"> Vicco Switchgear (P) Ltd. Hot Line Switchgear 	V-13 H-32
67.	ZPT Switch	MAJOR	CLW/ES/S-3	<ul style="list-style-type: none"> Siemens 	S-30				
68.	Toggle Switch	MAJOR	CLW/ES/S-27	<ul style="list-style-type: none"> Kaycee Industries IEC 	K-07 I-11				
69.	BL Switch Box with Seimens make programme & limit switches	MAJOR	CLW/ES/S-31	<ul style="list-style-type: none"> Asian Plastic Company Precision Electro Engg Plasto metal Ind Sunshine Ind. 	A-45 P-17 P-12 S-59	<ul style="list-style-type: none"> Maa Laxmi New Supreme Plastic 	M-04 N-11		

9. RESISTANCES

70.	a) Roof Mounted naturally cooled DBR	MAJOR	CLW/ES/R-36	<ul style="list-style-type: none"> DRI 	D-04			<ul style="list-style-type: none"> Stesalit 	S-53
	b) Roof Mounted forced cooled DBR	MAJOR	RDSO/2008/EL/SPEC/0069 (Rev'0)			<ul style="list-style-type: none"> DRI 	D-04	<ul style="list-style-type: none"> Stesalit 	S-53

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	c) Vertical DBR with AC MVRF	MAJOR	ELRS/SPEC/DBR/0028 (Rev'0)			• DRI • Stesalit	D-04 S-53		
71.	Resistance Series for TM Voltmeter (RU 1 & 2)	MEDIUM	CLW/ES/I-21	• Automatic Elec. • Sett & De. • Resistance India • Sonata Industrial Electronics/Mumbai • Galaxy Instruments	A-57 S-21 R-17 S-42 G-07			• Alfa Carbon Brush	A-25
72.	Wire wound Resistance (8 items)	MEDIUM	CLW/ES/R-38	• Calcutta Resistance • Monolite • Resistance India	C-04 M-36 R-17				
73.	Shunt for QF Relay & Shunt for Ammeter (SHAA)	MAJOR	CLW/ES/S-30 for SHF CLW/ES/I-21 for SHAA	• Sett & De. • Alpha Carbon Brush • Galaxy Instruments	S-21 A-25 G-07	• Golia Electricals	G-14		
74.	Resistance(RS /RPS) Punched Grid type	MAJOR	CLW/ES/R-39	RDSO controlled item. RDSO approved latest version vendor list to be followed.					

10. LAMPS

75.	Light Fitting Without Lamp with frosted Glass, White rectangular LE	MAJOR	CLW/ES//L-1 CLW/ES/SK-3/L-1	• Fine Elec. Works	F-08	• Krishna Engg • SBM Enterprises.	K-28 S-02		
76.	Light Fitting without Lamp with Cap for Fuse Tester ECC (LECC)	MAJOR	CLW/ES/L-5	• Alasia Engg. Pvt. Ltd. • ACME • Krishna Engg.	A-20 A-11 K-28				
77.	Lamp Recapitulation (RED) without Lamp (LSGR 1&2)	MAJOR	CLW/ES/L-1 CLW/ES/SK-2/L-1			• Fine Elec. Works	F-08	• Krishna Engg. • SBM Enterprises.	K-28 S-02

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78.	Twin Beam Halogen Head Light with DC-DC Converter		ELRS/SPEC/PR/0024 (REV-1 , Sep-2004) & ELRS/SPEC/DC-DC CONVERTER/ 0021, REV-1 SEP -04	RDSO controlled item. RDSO approved latest version vendor list to be followed.					
79.	Marker Light (for LED White & Red)		ELRS/SPEC/PR/0022 (REV-1 , Oct-2004)	RDSO controlled item. RDSO approved latest version vendor list to be followed.					
80.	LED type Flasher light		ELRS/SPEC/LFL/0017 (REV-1, Sep-2004)	RDSO controlled item. RDSO approved latest version vendor list to be followed.					
81.	CFL fittings	MAJOR	CLW/ES/L-22	<ul style="list-style-type: none"> • Kumar Industries • Precision Electro Engg 	K-26 P-17	<ul style="list-style-type: none"> • Indian Metal Works • Siddhi Vinayak • DR Auto 	I-28 S-69 D-01	<ul style="list-style-type: none"> • Krishna Engg. 	K-28
82.	Light (Spot)	MAJOR	CLW/ES/L-1			<ul style="list-style-type: none"> • Krishna Engg. 	K-28		
83.	Socket for Indicating Lamp (without lamp)	MAJOR	CLW/ES/L-5	<ul style="list-style-type: none"> • Bidyut Shilpa • Reform Electric 	B-32 R-14				
84.	Signalling Lamp Box	MAJOR	CLW/ES/L-24	<ul style="list-style-type: none"> • Pabitra Engg. • Aston Electronics • Precision Electro Engg. 	P-05 A-51 P-17	<ul style="list-style-type: none"> • Plasto Metal 	P-12		
85.	110 V Bulbs	MAJOR	CLW/ES/L-2 CLW/ES/SK-1/L-2	<ul style="list-style-type: none"> • Koilite Industries • Omex 	K-21 O-03				

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11. MISCELLANEOUS

86.	Aluminium Name plate (Zonal Rlys sources may also be considered)	MINOR	CLW/ES/N-6	<ul style="list-style-type: none"> Ilka Metal Ind. Pvt. Ltd. National Engraving Sarweshwar engg. Electro Engg. Corpn. Sales & Service Dhar & Co. 	I-03 N-03 S-15 E-11 S-08 D-07				
87.	Slotted Channel (Zonal Rlys sources may also be considered)	MINOR	CLW/ES/C-50	<ul style="list-style-type: none"> Usha Sheet Metal Fabricant India J. Sheet Metal S.K. Das. Universal Engg Precision Electro Engg 	U-18 F-02 J-01 S-05 U-13 P-17				
88.	Copper Flat	MAJOR	CLW/ES/C-36	<ul style="list-style-type: none"> Copper strip/Bpl Chandra Metal/ Allahabad Rupam Conductor/MB AA Ent./NDLS Cubex Tubing Malwa Dewas Mongal Chand /Kol Eastern copper/Kol 	C-27 C-35 R-25 A-01 C-34 M-44 M-10 E-30	<ul style="list-style-type: none"> Rima Conductor /SBC Gangapp/SC 	R-26 G-18	<ul style="list-style-type: none"> VKGI/Delhi Metalgems/Mumbai Neha Power lines 	V-06 M-45 N-17
89.	Wall Socket (PCLX & BCK)	MAJOR	CLW/ES/P-2	<ul style="list-style-type: none"> Bhartia Industries Ltd EPI 	B-22 E-21				
90.	Aux. Terminal Block	MAJOR	CLW/ES/T-26	<ul style="list-style-type: none"> Asian Plastic. Plasto Metal. Continental Engg. Precision Electro Engg Atul Ind / FDB 	A-45 P-12 C-24 P-17 A-53	<ul style="list-style-type: none"> New Supreme plastic 	N-11		
91.	Clamp Support for Contactor	MAJOR	CLW/ES/SK-1/C-44	<ul style="list-style-type: none"> Precision Castings Selvoc Enterprise Chandra Udyog 	P-16 S-19 C-13				

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92.	Lock Plate for Panto Mounting Insulator.	MAJOR	CLW/ES/I-22 Ref.3	<ul style="list-style-type: none"> National Engraving National Engg. Co 	N-03 N-01					
93.	Worm Drive HoseClip.	MEDIUM	IS : 4762	<ul style="list-style-type: none"> Klipco Sales Pvt Ltd. SA Ind.Corpn. Escon Industries. 	K-19 S-01 E-23					
94.	Chain for TM brackets	MAJOR	CLW.4P.8002.21	<ul style="list-style-type: none"> J.C.Coondy Metal Shape K.K.Iron Ind. 	J-03 M-30 K-29					
95.	OHE power presense/absence indicator	MINOR	CLW/ES/I-25			<ul style="list-style-type: none"> Samadhan System /Kol 	S-73	<ul style="list-style-type: none"> Design Centre 	D-09	
96.	Complete BA Panel	MEDIUM	ELRS/SPEC/BaP /0036, Rev 0 CLW/ES/BA/003	<ul style="list-style-type: none"> Stesalit 	S-53	<ul style="list-style-type: none"> ELCO Enterprise 	E-32			
97.	Earthing Pad for WAG-7 & WAP-4	MINOR	CLW.3W9009.98	<ul style="list-style-type: none"> Precision Electro Engineering/Hwh 	P-17			<ul style="list-style-type: none"> B.S. Fabcon Swastika Industries 	B-07 S 96	
98.	Wooden Skid	MINOR	CLW.4W.12000.054 CLW.4W.13000.175	3- Phase Master list to be followed.						

12. BOGIE ITEMS :

99.	T.M. Pinion 16T/23T Gears 65T / 58T		MP-0-2800-09 Dec'90	RDSO controlled item. RDSO approved latest version vendor list to be followed.						
100.	Axle Box for WAP4 Loco with bearings & Components		M/EL/30/9 (WAP-4) M/EL/3018 (WAG-7)	RDSO controlled item. RDSO approved latest version vendor list to be followed.						

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101.	Suspension Springs for WAP-4 Locos (Primary & Secondary) & WAG-7 Locos (Inner & Outer)		SK-DL-3472 (Primary) SK-DL-3473(Secondary) SK-VL-037 (Outer) SK-VL-039 (Inner)	RDSO controlled item. RDSO approved latest version vendor list to be followed.					
102.	Equalizer Spring Seat Assly (WAG-7)	MAJOR	06/3/15/ 63	<ul style="list-style-type: none"> • Aardee Enterprise/Kol • B.S.Fabcon/ Kolkata • J. Sheetmetal/ Kolkata • D.R. Steel/ Kolkata • Special Electrical Engg • B.B.Engg./Kanpur • A.K.Engg.Works 	A-06 B-07 J-01 D-02 S-46 B-02 A-02	<ul style="list-style-type: none"> • Elbe / Kolkata • Unique Structural • Fabcon/ Kolkata • Jayshree Ent./ • Technomac / Kol. 	E-06 U-07 F-01 J-11 T-08		
103.	7 Plates Air Duct Bellow (Leather)		E-7/06/Rev.2	RDSO controlled item. RDSO approved latest version vendor list to be followed.					
104.	Hydraulic Damper (Vertical & Lateral)	MAJOR	06/2/15/20, (Lateral) 06/2/15/7, (Vertical)	<ul style="list-style-type: none"> • Escorts/ Faridabad • Knorr Bremse/ Faridabad 	E-24 K-20				
105.	Side Bearer	MAJOR	SPR-NO-VL-02 April '99 VL03-SKVL-127, SKVL-133	<ul style="list-style-type: none"> • Trelleborg / UK. (Through M/s. Ashika Commercial / Kol.) (A-40) 	T-21	<ul style="list-style-type: none"> • Phoenix Rubber • MGM Rubber • Basant Rubber • Aryan Exporters/ LKO • Prag Ind. India/ LKO 	P-09 M-32 B-10 A-63 P-25		
106.	a) Rubber Bush Assly for centre pivot	MAJOR	06/2/15/49	<ul style="list-style-type: none"> • Trelleborg / UK. (Through M/s. Ashika Commercial / Kol.) 	T-21	<ul style="list-style-type: none"> • Phoenix Rubber • MGM Rubber • Basant Rubber 	P-09 M-32 B-10		
	b) Steel Sleeve for Centre Pivot	MAJOR	06/2/15/49			<ul style="list-style-type: none"> • Ashika Commercial Pvt. Ltd 	A-40		

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107.	Holding Bracket Assly. For Side Buffer	MEDIUM	06/2/15/46	<ul style="list-style-type: none"> • C.S.Engrs/ Kolkata • Indo Mech Corpn/Hwh • B.S. Fabcon / Kolkata 	C-01 I-17 B-07	<ul style="list-style-type: none"> • Unique Structural 	U-07		
108.	Side Stopper	MAJOR	06/2/15/47	<ul style="list-style-type: none"> • MGM Rubber/Kolkata • Swan Rubber / Kolkata • Manish Rubber Industries/MB 	M-32 S-63 M-13				
109.	Centre Block Assly	MAJOR	06/2/15/59	<ul style="list-style-type: none"> • Recon Engg/ Kolkata • P.K. Forge/Kol. • Tirupati Engg. • Versatile/ Kolkata 	R-13 P-26 T-13 V-08	<ul style="list-style-type: none"> • Atlanta/ Kolkata • Indo Mech Corpn • C.S.Engrs/ Kolkata • Tara Engg/Kol 	A-52 I-17 C-01 T-22		
110.	Centre pivot Assly	MAJOR	06/2/31/106	<ul style="list-style-type: none"> • Recon Engg • P.K.Forge 	R-13 P-26	<ul style="list-style-type: none"> • Tirupati Engg • Linkers india • P.K.Engineers & Forging Pvt. Ltd 	T-13 L-11 P-02		
111.	Lifting Arrangement	MAJOR	06/3/10/3 06/3/10/4 CLW/AL/112	<ul style="list-style-type: none"> • Monasa Engg/ Howrah • B.K.Industries/ Hwh • National Engg/ Kol 	M-14 B-03 N-02				
112.	Pivot Liner (Vertical & horizontal) for WAP-4.	MAJOR	03/4/12/2 (Vertical) 03/4/12/1(Horizontal)	<ul style="list-style-type: none"> • United Motor/ Delhi • Quadrant EPP Surlon / Noida 	U-10 Q-01	<ul style="list-style-type: none"> • Laminac/ Bombay 	L-04		
113.	Bolster friction device for WAP-4	MAJOR	03/2/16/2	<ul style="list-style-type: none"> • United Motor/ Delhi • Quadrant EPP Surlon / Noida 	U-10 Q-01	<ul style="list-style-type: none"> • Laminac/ Bombay 	L-04		
114.	Brake Gear Arrangement (WAG-7 & WAP-4) & it's components	MAJOR	06/1/19/108 (WAG-7) 03/1/19/36 (WAP-4) 03/1/19/37 (WAP-4) 03/1/19/38 (WAP-4)	<ul style="list-style-type: none"> • Tirupati Engg/ Hwh • Kay Pee/ Hwh • Pioneer Gears • B.B. Engg/Kanpur • Special Elect & Engg /MB • Metro Steel India/ Udhna • Hydrodyne 	T-13 K-08 P-11 B-02 S-46 M-31 H-23	<ul style="list-style-type: none"> • D.R. Steel/ Kolkata • Fabcon/ Kolkata • Linkers India/ • Simplex Engg. • Anup Malleables /DHN • Indian Paper Machinery • Vanguard Engg /Hwh 	D-02 F-01 L-11 S-37 A-36 I-29 V-01		

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115.	Mn Steel Pins & Bushes	MEDIUM		<ul style="list-style-type: none"> Tanco Engg/ Noida Kristeel Corp./MB 	T 02 K 30	<ul style="list-style-type: none"> Tirupati Engg. (Regular sources of Brake Gear at SI No.114 to be also considered.) 	T-13			
116.	Bogie Frame Assly. for WAP-4 Loco		03/1/12/10 03/1/12/11	RDSO controlled item. RDSO approved latest version vendor list to be followed.						
117.	Bolster Assly for WAP-4		03/1/12/3	RDSO controlled item. RDSO approved latest version vendor list to be followed.						
118.	Adapter	MAJOR	03/3/12/35	<ul style="list-style-type: none"> Indo Mech/HWH C.S.Engineers/Kol 	I-17 C-01	<ul style="list-style-type: none"> Special Eng/Kol 	S-47			
119.	Stopper Bottom	MAJOR	06/3/15/51	<ul style="list-style-type: none"> C.S. Engineers/ Kol Recon Engg./ Kolkata 	C-01 R-13	<ul style="list-style-type: none"> A.K.Engg Works/H 	A-02			
120.	Protection Cover for TM	MAJOR	03/3/25/8	<ul style="list-style-type: none"> CS Engis/Kolkata Aardee entr./Howrah A.K.Engr/Hwh Unique structural/ Hwh 	C-01 A-06 A-02 U-07	<ul style="list-style-type: none"> B.S Fabcon Llyod India J.Sheet Metal 	B-07 L-13 J-01			
121.	Compensating & Equilizer beam & Link for WAG-7		06/2/15/62 06/2/15/68 06/4/15/69	<ul style="list-style-type: none"> Simplex Engg. / Bhilai Metro Steel Inds/Udhana Standard Engineers/Kol Bhilai Engg. Works Jalan Engg. / Kol Electrovolt Equip P Ltd Maa Engineering / Kol 	S-99 M-31 S-89 B-61 J-23 E-39 M-60	<ul style="list-style-type: none"> Anup Malleable Linkers India Bhilai Iron & Steel Proces Corp / Bhilai 	A-36 L-11 B-60			
122.	HITACHI / TAO 659 Gear Case		05/1/13/166	<ul style="list-style-type: none"> Hydrodyne / ASN M.S. Trading / ASN ELBE / HWH Kay Pee Equip / Hwh B.B. Engg. / Kanpur Boyd Smith Hind Engg. Kumar Engg. Work/ DLI D.R. Steel /Kol 	M-23 M-61 E-06 K-08 B-02 B-45A H-11 K-25 D-02	<ul style="list-style-type: none"> Super tech / Bagpur Fabcon / Kol 	F-01			

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13. SUSPENSION TUBE ITEMS:

123.	Suspension tube	MAJOR	10P701-898	RDSO controlled item. RDSO approved latest version vendor list to be followed.					
124.	Bearing Housing	MAJOR	10Q745-381						
125.	Adjustment Washer	MAJOR	10Q745-382						
126.	End Cover (RWE) & (GWE)	MAJOR	10Q745-383 (RWE) 10Q745-385 (GWE)						
127.	Abutment Piece	MAJOR	10Q745-384						
128.	Enclosure	MAJOR	10Q745-386						
129.	Taper Roller Bearing Assly.(GWE) & (RWE)		10R812-077 (RWE) 10R812-078 (GWE)						
130.	Bolt for Suspension Tube	MAJOR	4TWD-095-089	<ul style="list-style-type: none"> • LPS/Haryana • Sundaram Fasteners /Chen • Bolt master Ind P Ltd • PFL Mumbai • GKW/ KOL 	L-5 S-58 B-44 P-27 G-19				
131.	Socket Hd.Cap Screw M-10x30 M-12x70 M-12x90	MAJOR	L/0/0001-10T827-633 L/0/0002-10T827-634 L/0/0003-10T827-635	<ul style="list-style-type: none"> • LPS/Haryana • Sundaram Fasteners • Bolt master Ind P Ltd • PFL/Mumbai • Vardhman Ind Fasteners • GKW/Kol 	L-15 S-58 B-44 P-27 V-02 G-19				
132.	Spring Washer	MAJOR	IS:3063	<ul style="list-style-type: none"> • Forbes Gokak Ltd. 	F-21				

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133.	Grease Nipple (Zonal Rlys sources may also be considered)	MEDIUM	4TWD-095-038	<ul style="list-style-type: none"> • B.K..Industries/HWH • Continental Engg./Cal. 	B-03 C-24				

14. SUPERSTRUCTURE ITEMS

134.	High Tensile C.B. Couplers & its components (including Striker Casting)		56-BD-97 & 49-BD-94 SKDL-3430	RDSO controlled item. RDSO approved latest version vendor list to be followed.					
135.	High Capacity Side Buffer Assly. Complete with high capacity rubber buffer spring for side buffers from RDSO appd. Sources	MAJOR	WA – BD - 211	<ul style="list-style-type: none"> • Cimmco/ Gwalior • Mukund Iron/ Bombay • KMRI/ Kharag. • Raneka Industries/ Indore • Atul Engg • Frontier Alloy Steel • Sawrabh Metal P. Ltd 	C-16 M-40 K-14 R-09 A-53 F-20 S-70	<ul style="list-style-type: none"> • Sidha Steel/ Coimbtore • Agarwal Engg/ Mum • Economic/ Mumbai • Hindustan Foundry & Engg Works • Hemco Eng/Bhind • Siena Eng/Pitampur • Affine steel ltd /Haridwar 	S-29 A-15 E-04 H-24 H-27 S-72 A-65A		
136.	Cab Window Assly (MS).	MEDIUM	05/2/42/61 05/1/42/60	<ul style="list-style-type: none"> • Aardee Enterp/ HWH • Jayshree Enterprise/ Kol • Vikrant Engg./ Kolkata 	A-06 J-11 V-12	<ul style="list-style-type: none"> • Vanguard Engg./Howrah 	V-01		
137.	Cab Insulation	MEDIUM	DC/TES/862-1	<ul style="list-style-type: none"> • Lloyd Insulation/ Kol • Capex Insulation/ Kol. 	L-12 C-08				
138.	Inter lock complete	MAJOR	CLW/AC/80	<ul style="list-style-type: none"> • Patra & Chandra/ Hwh • Impex Engg/ Howrah 	P-06 I-04	<ul style="list-style-type: none"> • Metal Shape/ Hwh • Sankar Bros 	M-30 S-12		
139.	Door Lock Asssly. (Corridor)	MEDIUM	01/1/42/45 01/2/42/53	<ul style="list-style-type: none"> • Impex Engg/ Howrah • Patra & Chandra/ Hwh 	I-04 P-06	<ul style="list-style-type: none"> • Metalshape/ Howrah • Monosa/ Howrah • Sankar Bros/ Hwh 	M-30 M-14 S-12		

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140.	Happitch Lock	MINOR	03/3/39/74	<ul style="list-style-type: none"> • Metalshape/ Howrah • Monosa/ Howrah • Patra & Chandra/ Hwh • Sankar Bros/ Howrah • Impex/ Howrah • Super Product /Kola 	M-30 M-14 P-06 S-12 I-04 S-60				
141.	Spring Assembly	MAJOR	05/4/33/6	<ul style="list-style-type: none"> • Asha Spring/ Howrah • Continental Engg/ Hwh • Howrah Spring/ Hwh • P K Spring/ Kolkata • Usha Sheet Metal/ Kol • Providence Enter/ Kol 	A-39 C-24 H-20 P-03 U-18 P-21	• J.D.Engg Works	J-20		
142.	Body filter and Louver Fixing arrgt.	MINOR	M/EL/20/TS-6 03/1/45/14	<ul style="list-style-type: none"> • Jayshree Entrprise/ Kol • Cadillac Engg/ Kolkata • Filtech (India)/ Kol • Mehrotra & Company / Kanpur • Filtronics/ Kol 	J-11 C-05 F-06 M-26 F-07				
143.	Modified Sun visor Arrgt. & details	MINOR	05/1/35/149	<ul style="list-style-type: none"> • B K Industries/ Hwh • Metal Shape/ Howrah • Sankar Bros/ Howrah • B.B.Engg/Kanpur 	B-03 M-30 S-12 B-02	• Kumar Engg/ New Delhi	K-25		
144.	Fire Extinguisher (Dry chemical powder) along with mounting arrangement.	MAJOR	06/2/38/3	<ul style="list-style-type: none"> • Oriental Fire/ Kolkata • Vijay Fire/ Mumbai • Fire Shield/ Kolkata • Debex Salkes Entp. /Kol • Zenith Fire/ Mumbai • Sumit Ind.Corpn/ Kol 	O-05 V-11 F-09 D-05 Z-01 S-57	• Hindex Fire Equip/ Howrah	H-15		
145.	Safety Glass Pane	MINOR	03/4/44/4	<ul style="list-style-type: none"> • Hind Safety Glass/ Kol • Kanailal Dutta/ Kol • Bright Glass Works/ Kol 	H-25 K-05 B-40	<ul style="list-style-type: none"> • B S Glass/ Jamshedpur • G.S.C.Toughened Glass/ New Delhi 	B-45 G-05	• Mayur Glass Ind.	M-20

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				PART –I (REGULAR)	CODE	PART –II (DEVELOPMENTAL)	CODE	SOURCES IDENTIFIED FOR DEVELOPMENT	CODE
146.	Eye Bolt Assly.	MEDIUM	05/3/47/349 05/3/47/350	<ul style="list-style-type: none"> B K Industries/ Hwh Monosa Engg/ Howrah Satya Ind/ Kolkata National Engg./ Kol Metal Shape/ Howrah 	B-03 M-14 S-16 N-01 M-30	<ul style="list-style-type: none"> Tarudeep Enterprises/ Kolkata 	T-03		
147.	Hand Brake Assly.	MAJOR	Drg. No. 01/0/59/1 Spec. No.- A4/TES/799.002 A4/TES/799.003	<ul style="list-style-type: none"> India Toolcraft/ Kol Kay Pee/ Howrah Vikrant Engg./ Kol 	I-09 K-08 V-12	<ul style="list-style-type: none"> Bhagawati Steel /Howrah P.C.Ghosh / Kol. Haradhan & Co/ Hwh Tirupathi/Hwh B.B.Engg/Kanpur Kumar Engg /NDLS 	B-12 P-01 H-04 T-13 B-02 K-25		
148.	Protection cover for HOM Switch	MINOR	05/1/56/2	<ul style="list-style-type: none"> I M F/ Kolkata Stesalit/ Kolkata Shanti Fibre / Kolkata 	I-19 S-53 S-25	<ul style="list-style-type: none"> Kumar Engg/NDLS 	K-25		
149.	Hood for smoothing reactor.	MEDIUM	M/EL/20/TS-1 05/1/50/440 05/1/50/441 05/3/50/292	<ul style="list-style-type: none"> Stesalit/ Kolkata I M F/ Kolkata Oriental Fibre/Kol R.G. Industries Shanti Fibre /Kol 	S-53 I-19 O-05 R-01 S-25	<ul style="list-style-type: none"> Kumar Engg/NDLS 	K-25		
150.	Standard Hardware items like High tensile Hex Hd. screw, bolts nut etc.	MAJOR	IS: 1364 IS: 1365 IS: 2232	<ul style="list-style-type: none"> L P S/ Haryana Precision Fasn/ Mmbai Sundaram Fast/ Chennai Bolt Master Pvt. Ltd/ Mumbai Vardhman Ind Fasteners/Delhi 	L-15 P-18 S-58 B-44 V-02				
151.	Non-standard Hardware items like Machined washers, pins, cotters, rivets split-pins, screws etc. (Zonal Rlys sources may also be considered)	MAJOR		<ul style="list-style-type: none"> Satya Ind/ Kolkatai Solex Fasteners/ Kalyani Nexo Ind./ Ludhiana Vardhman Ind. Fasteners/Delhi 	S-16 S-40 N-18 V-02	<ul style="list-style-type: none"> Tarudeep Entp/Kol Associated Manufacturres / Kol Monosa / Hwh National Engg / Kol B.K.Industries/ Hwh 	T-03 A-49 M-14 N-01 B-03		

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				PART –I (REGULAR)	CODE	PART –II (DEVELOPMENTAL)	CODE	SOURCES IDENTIFIED FOR DEVELOPMENT	CODE
152.	Asbestos & Felt packing	MINOR	IS : 4687 – Asbestos Gr.-1 IS : 1719 – Felt Packing	<ul style="list-style-type: none"> • Dasgupta/ Kolkata • Dhar & Co. / Kolkata • Sales & Service/ Kol • Sarbeshwar/ Kol • Shree Kr. Gopi Kr./ Kol • New Cal. Gasket/ Kol • Seal Well Neemuch • A.M. Saria & Co/MB 	D-03 D-07 S-08 S-15 S-28 N-09 S-18 A-04				
153.	Aluminium Sheets & Flats	MINOR	M/s INDAL's Section No.5505 or equivalent	<ul style="list-style-type: none"> • Bharat Aluminium/Kol • Hind Al. Corp/ Mumbai (Through Surana Metal Ltd) • Indian Al. Co./ Kol (Through Century Extrusion / C-11) 	B-13 H-16 I-10	<ul style="list-style-type: none"> • Metal Perforators & Engg Works/Kol 	M-9		
154.	Expanded Metal sheet	MINOR	IS 412 Ref. 36	<ul style="list-style-type: none"> • Cal. XP Metal/ Kol. • Indian Metal Craft / Mumbai • Jameson/ Kolkata. 	C-06 I-12 J-07				
155.	Wire Nettings, Wire rope etc.	MINOR	IS : 4848 (Mech) IS : 3459 (rope) 06/1/19/108 Ref.61	<ul style="list-style-type: none"> • Dhar & Co./ . Kolkata. • Dhanuka/ Kolkata. • National Engg./ Kol. • New Ind. Trading/ Kol • Providence Entr./ Kol. • Sales & Service/ Kol. • Sarbeshwar/ Kolkata. 	D-07 D-06 N-01 N-10 P-21 S-08 S-15				
156.	Door Handle	MINOR	02/3/40/47	<ul style="list-style-type: none"> • Metalshape/ Howrah • Monosa/ Howrah • Patra & Chandra/ Hwh • Sankar Bros/ Howrah • Impex/ Howrah ▪ National Engg/ Hwh 	M-30 M-14 P-06 S-12 I-04 N-01	<ul style="list-style-type: none"> • G.S Engg /Kanpur 	G-20		

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				PART –I (REGULAR)	CODE	PART –II (DEVELOPMENTAL)	CODE	SOURCES IDENTIFIED FOR DEVELOPMENT	CODE

157.	Aluminum Perforated sheet, aluminum resilient liner	MEDIUM	IS : 737 –1986 or CLW Spec No. M/EL/35/263	<ul style="list-style-type: none"> • Dhar & Co./ Kolkata • J.N.Trader/ Kolkata • National Engg./ Kol • Sales & Service/ Kol • Sarbeswar/ Kolkata 	D-07 J-04 N-01 S-08 S-15	<ul style="list-style-type: none"> • Metal Perforaters / Kol. 	M-29		
158.	Ferro Asbestos Liners & wear Liners	MEDIUM		<ul style="list-style-type: none"> • A.P. Banerjee / Kol • Bombay Processors /M • Dhar & Co /Kol • National Engg / Kol • S. Int'national / Mumb • Sarweshwar / Kol • Sen & Co / Kol • Hind Ferrodo/Mumbai 	A-05 B-38 D-07 N-01 S-04 S-15 S-20 H-12				
159.	Damping Networks Frame	MAJOR	03/2/50/50P	<ul style="list-style-type: none"> • Aardee Enterpr/ HWH • B.S. Fabcon/ Kolkata • J.Sheetmetal/ Howrah 	A-06 B-07 J-01	<ul style="list-style-type: none"> • Fabcon/ Kolkata 	F-01		
160.	Dust Guard	MINOR	03/4/31/50	<ul style="list-style-type: none"> • Metal Shape/ Howrah • Impex/ Howrah • Indo Mech/ Howrah • A.K.Engg/ Howrah 	M-30 I-04 I-17 A-02	<ul style="list-style-type: none"> • Sima Engg Wks/ Hwh 	S-35	<ul style="list-style-type: none"> • Brite Metalloy / Kol 	B-41
161.	Air Inlet Guard Assly.	MINOR	06/2/52/3	<ul style="list-style-type: none"> • Fabcon/ Kolkata • J.Sheetmetal/ Hwh 	F-01 J-01	<ul style="list-style-type: none"> • B.S. Fabcon/ Kol • Unique Structural/ K • Aardee Entp. • A.K.Engg • Modern Engg Works • Shivam Entp • Baltikuri Engg. 	B-07 U-07 A-06 A-02 M-35 S-73 B-44		
162.	Teflon Tape (Kohinoor or Mazda-brand)	MAJOR		<ul style="list-style-type: none"> • A.K.Jain & Brothers/ Kol. • Kayvee India/ Kolkata • Das Gupta/ Kolkata • Sales & Service/ Kol • Sarveshwar Engg. 	A-03 K-11 D-03 S-08 S-15				

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				PART –I (REGULAR)	CODE	PART –II (DEVELOPMENTAL)	CODE	SOURCES IDENTIFIED FOR DEVELOPMENT	CODE
163.	Control Box Mounting for flasher light	MEDIUM	05/2/36/212	<ul style="list-style-type: none"> • Universal Sheet Metal • Modern Engg Works 	U-20 M-35	<ul style="list-style-type: none"> • Recon/ Kolkata 	R-13	<ul style="list-style-type: none"> • Tarudeep Enterpise 	T-03
164.	Flasher Light Bracket Assembly.	MINOR	05/1/35/ 161	<ul style="list-style-type: none"> • G.G. Industries/ Kol • Fabcon/ Kolkata • Jay Engg. Works/ ASN 	G-04 F-01 J-10			<ul style="list-style-type: none"> • A.K. Engg./ Hwh • National Engg. / Kol 	A-02 N-01
165.	Axle Collar	MEDIUM	05/4/11/107	<ul style="list-style-type: none"> • Tirupati Engg./ Kol • Haradhan/ Howrah • Pioneer Gears / Hwh. • Special Electric& Eng • National Engg. 	T-13 H-04 P-11 S-46 N-01	<ul style="list-style-type: none"> • U.K.Enterprise • National Industries 	U-02 N-04		
166.	Sheave for hand brake	MAJOR	01/4/59/71	<ul style="list-style-type: none"> • Kaypee / Howrah • A.K.Engg/ Howrah • National Engg./ Kol 	K-08 A-03 N-01	<ul style="list-style-type: none"> • U.K.Enterprise 	U-02		
167.	Bi-linguistic Maker's Name Plate	MINOR	05/2/55/131	<ul style="list-style-type: none"> • A.K.Engg./ Hwh • Dhar & Co./ Kol. 	A-02 D-07	<ul style="list-style-type: none"> • Fabcon /Kol. • National Engg./ Kol. 	F-01 N-01		
168.	Footstep Pocket on Under Frame	MEDIUM	06/3/65/30P	<ul style="list-style-type: none"> • Aardee Enterpr./ Hwh 	A-06	<ul style="list-style-type: none"> • A.K.Engg / Hwh 	A-02	<ul style="list-style-type: none"> • Mechem Engg./ Hwh • Indo Mech Corp. / Hwh • Universal Sheet Metal 	M-22 I-17 U-20
169.	Cattle Guard / Modified Caw catcher Assly for conventional and 3-phase loco	STRUCTURAL	CLW/MS/31 03/1/62//83 (P-4) 03/1/62//84 (P-4) 05/1/62//44 (G-7) 1210-02.140-071 (P-5) 1209-02.140-032 (P-7 & G-9)	<ul style="list-style-type: none"> • Simplex Ind. /Nagpur • Maharashtra Engg. /Jalgaon • B.B. Engg./Kanpur • Kanpur Expeller • Kumar Engg. Works • Rubicon Steel /Chandigarh • Recon Steel • M.S. Trading/ASN • Hydrodyne/ASN 	S-98 B-02 K-45 K-25 M-03 H-23	<ul style="list-style-type: none"> • Ramlal Ind./Baranasi • Selvoc Entp/Kol. • Navanirman/Kolkata • Kaypee Ind./Kolkata • Western Engg. 	R-07 S-19 N-19 K-11 W-07		
170.	Alluminium ladder	MINOR		Three phase approved list to be followed					

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171.	Driver's seat & installation for WAG-7 & WAP-4			Three phase approved list to be followed					
172.	Cab side door LH & RH, for WAG-7 & WAP-4			Three phase approved list to be followed					
173.	Corridor door for WAG-7 & WAP-4			<ul style="list-style-type: none"> ▪ Jayshree Entp /Kol. ▪ Ardee Enterprise/Kol ▪ Navanirman Fab P Ltd 	J-11 A-06 N-19	<ul style="list-style-type: none"> • Modern Engg./ Mihijam 	M-35		
174	Large fabricated items (MS); Category - STRUCTURAL NOTE – (1) The Part-I & Part-II sources of Extra large fabricated items shall be considered as Part-II source for this Category of items. However, for first time supply, prototype inspection clause shall be required. (2) The firms approved for any item under large fabricated item cartegory shall be considered as Part-II source of other items under large fabricated items. However, for first time supply, prototype inspection clause shall be required.								
	(a) Frame work for AC- 2 cabinet for WAG-7 & WAP-4			<ul style="list-style-type: none"> • Hydrodyne/ASN • D.R. Steel /Kol 	H-23 D-02	<ul style="list-style-type: none"> • Fabcon /Kol. 	F-01		
	(b) Driver's Desk Structure for WAG-7 & WAP-4			<ul style="list-style-type: none"> • Hydrodyne/ASN • KMRI / Hwh 	H-23 K-14	<ul style="list-style-type: none"> ▪ Modern Engg Work 	M-35		
	(c) BA1, BA2, BA3 panels Frame for WAG-7 & WAP-4			<ul style="list-style-type: none"> • Modern Engg Work • D.R. Steel /Kol • Unique Structural/Hw 	M-35 D-02 U-07	<ul style="list-style-type: none"> • Fabcon /Kol. 	F-01	<ul style="list-style-type: none"> • Promoda Engg. / Kol 	P-46
	(d) Battery box with mounting arrgt. For WAG-7 & WAP-4			<ul style="list-style-type: none"> ▪ Modern Engg Work ▪ D.R. Steel /Kol 	M-35 D-02	<ul style="list-style-type: none"> • Fabcon /Kol. 	F-01		
	(e) General Arrgt. of Security Panel (MS) WAG-7& WAP-4					<ul style="list-style-type: none"> • Fabcon /Kol. • Modern Engg Work 	F-01 M-35		
	(f) RPS Cowl for WAG-7 & WAP-4			<ul style="list-style-type: none"> ▪ Modern Engg Work 	M-35	<ul style="list-style-type: none"> ▪ Fabcon /Kol. 	F-01		

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	(g) Frame work for panel mounted Brake Equipt. (Main)			<ul style="list-style-type: none"> Modern Engg Work Kay pee/Hwh 	M-35 K-11	<ul style="list-style-type: none"> KMRI / Hwh 	K-14		
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<p align="center">Small fabricated items (MS) ; Category - STRUCTURAL</p> <p align="center">NOTE – Part-I & Part-II sources of Large Fabricated items (MS) to be considered as Part-II source for small Fabricated items (MS). However, for first time supply, prototype inspection clause shall be required.</p>									
175	1. Sand box Assly / WAG –7					<ul style="list-style-type: none"> Super Tech/Nagpur 		<ul style="list-style-type: none"> Ischrotech / Bokaro 	I-27
	2. Sand box Assly / WAP -4	<ul style="list-style-type: none"> Hydrodyne/Asansol 	H-23	<ul style="list-style-type: none"> Accropoly /Jamshedpur 	A-81	<ul style="list-style-type: none"> Mechem Engg. / Hwh 	M-35		
	3. Floor Assly./ WAG –7	<ul style="list-style-type: none"> Jayshree Enterprise /Kol. 	J-11	<ul style="list-style-type: none"> Brite Metalloy /Kol 	B-41	<ul style="list-style-type: none"> Technofab/ Jamshedpur 	T-24		
	4. Flooring Arrangt / WAG -7	<ul style="list-style-type: none"> D.R. Steel. 	D-02	<ul style="list-style-type: none"> Tarudeep Entp. U.K. Ent./Hwh 	T-03	<ul style="list-style-type: none"> Chandra Udyog Metro Steel / Surat 	C-13 M-31		
	5. Stool assly for TM blower	<ul style="list-style-type: none"> Recon Engg. 	R-13	<ul style="list-style-type: none"> Ramlal Ent/Varanashi 					
	6. Louvre panel for WAG -7	<ul style="list-style-type: none"> Linkers India/ Sitarampur 	L-11	<ul style="list-style-type: none"> Electro Magnetic/Kol 		<ul style="list-style-type: none"> Punjab Indus. Works 			
	7. Flooring Arrgt. Over smoothing reactor / WAP –4	<ul style="list-style-type: none"> Ardee Enterprise/Kol. 	A-06	<ul style="list-style-type: none"> Bhagabati Steel/Hwh 		<ul style="list-style-type: none"> Shiva Engg. Works /Kol 	S-83		
	8. Mounting arrangement of aux. Panel -2 end / WAP-4	<ul style="list-style-type: none"> M.S. Trading/Asansol 	M-61	<ul style="list-style-type: none"> Pushkar Techno /Jamshedpur 		<ul style="list-style-type: none"> Bhilai Iron & Steel Processing Corp / Bhilai 	B-60		
	9. Mounting structure for aux. Panel –1 end / WAP-4	<ul style="list-style-type: none"> Elbe/Howrah 	E-06	<ul style="list-style-type: none"> * Commercial Engg./ Jamshedpur 		<ul style="list-style-type: none"> Mcnally Bharat Engg. 			
	10. Mounting frame for aux. Panel-II end / WAP -4	<ul style="list-style-type: none"> Kay Pee Equipt. /Hwh 	K-08	<ul style="list-style-type: none"> Vikrant Engg./Kol 	V-12	<ul style="list-style-type: none"> Burn Standard Co / Kol 	B-42		
	11. Mounting structure for aux. Panel –1 end / WAG- 7	<ul style="list-style-type: none"> B.B. Engg./Kanpur 	B-02	<ul style="list-style-type: none"> Loyd India 	L-13	<ul style="list-style-type: none"> Tube Computed Pvt. Ltd 			
	12. Mounting frame for aux. Panel-II end / WAG - 7	<ul style="list-style-type: none"> Boyd Smith 	B-45	<ul style="list-style-type: none"> Vanguard Engrs/Hh 	V-01	<ul style="list-style-type: none"> Jessop & Co. / Kol 	J-21		
	13. Oil Tray for aux. compressor / WAG - 7	<ul style="list-style-type: none"> Hind Engg. 	H-11	<ul style="list-style-type: none"> Sima Engg./HWH 	S-35	<ul style="list-style-type: none"> E.C.Blades & Tools 	E-38		
	14. Oil Tray for aux. compressor / WAP - 4	<ul style="list-style-type: none"> Kumar Engg. Works/ New Delhi 	K-25	<ul style="list-style-type: none"> Venus Ent./ NDLS 		<ul style="list-style-type: none"> Trident Auto / Kanpur 	T-29		
	15. Oil Tray assly. (Large & Small) / WAG - 7	<ul style="list-style-type: none"> Unique Structural/ hwh 	U-07	<ul style="list-style-type: none"> Tirupati 	T-13	<ul style="list-style-type: none"> Die Tools/Jamshedpur 	D-17		
	16. Oil Tray assly. (Small) / WAP - 4	<ul style="list-style-type: none"> National Engg./ Kol 	-	<ul style="list-style-type: none"> Petro Gen/Bhilai 	P-28	<ul style="list-style-type: none"> Amptech Associates 	A-79		
	17. Modified louver frame assly. WAG –7 & WAP –4	<ul style="list-style-type: none"> C.S. Engineers/Kol 	C-01						
	18. Protection grill mounting Arrgt for front Glass/ WAP4								
	19. Bracket assly. for smoothing reactor								
	20. Mounting bracket & details of safety valve / WAP -4								
	21..Mounting bracket for brake equipment (Below under frame / WAG)								
	22. MCB battery box / WAP -4								
	23. MCB battery box / WAG –7								
	24. Set of fabricating items (WAG-7) Type-I(10 items)								
	25. Set of fabricating items (WAG-7) Type-2 (15 items)								

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26. Set of fabricating items (WAG-7) Type-3 27. Set of Mounting Items on U/F(WAG-7)Type-I(10 items) 28. Set of Mounting Items on U/F(WAG-7)Type-2(10 items) 29. Set of Mounting Items on U/F(WAG-7)Type-3(12 items) 30. Set of Mounting Items on U/F(WAG-7)Type-4(13 items) 31. Set of Mounting Items on U/F(WAG-7)Type-5(06 items) 32. Set of fabricated Items (WAP-4)Type-1 (07 items) 33. Set of fabricated Items (WAP-4)Type-2 (16 items) 34. Set of fabricated Items (WAP-4)Type-3(06 items) 35. Set of Mounting Items on U/F(WAG-4)Type-I(10 items) 36. Set of fabricated Items for flooring arrangements (13items) 37. Set of Checkered plate of WAP-4,Type-1 for Shop-16 38. Different types of Clips, Clamps&Brackets for WAG-7 39. Different types of Clips, Clamps&Brackets for WAP-4 40. Inner / Outer Bracket 41. Chain Assembly 42. Door Hinge 43. Handle Assembly 44. Set of Bogie Items 45. Foot Step Arrangement	• Indomech Corp. /Hwh	I-17	• Super Product / Kol	S-60		
	• B.S. Fabcon/Kolkata	B-07	• Matara Engg / Kol	M-62		
	• J. Sheet Metal/Howrah	J-01				
	• Kayr Enterprise /Kol	K-10	• Monosa Engg/ Kol	M-63		
	• A.K. Engg./Howrah	A-02	• Fabcon/Kol	F-01		
	• Argus Fab	A-37	• KMRI / Hwh	K-14		
	• Sankar Brother/HWH	S-12	• Weston Engg / Hwh	P-45		
	• Metal Shape/Howrah	M-30				
	• Impex/Howrah	I-04	• P.S. Engg / Hwh	B-44A		
	• G.G. Industries/Kol.	G-04				
	• Jay Engg. Works/ASN	J-10	• Baltikuri Engg / Hwh	I-36		
	• Selvoc	S-19				
	• Special Engg.	S-47	• Indradeb Trust / Kol	P-17		
	• J.D. Engg.	J-20				
	• Metal Engg.	M-27	• Universal Machining Works / Jamshedpur			
	• Navnirman/Kolkata	N-19				
	• Shivam Enterprises	S-73				
	• Universal sheet metal	U-20	• Precision Electro Engg /Hwh			
	• Simplex Industries / Nagpur	S-98				
	• Modern Engg./ Mihijam	M-35				

Extra Large fabricated items; Category - STRUCTURAL

NOTE – Approved sources for any item of this group shall be considered as SID source for other items also.

176	Side Wall Assembly for WAG-7	06/1/44/15 06/1/44/30			• Bhelai Iron & Steel Processing Corp. • Shiva Engg Works	B-60 S-83	• Techno Fab Mfg.Ltd/ Kol	T-24
177	Side Wall Assembly for WAP-4	03/1/44/156			• Shiva Engg Works	S-83	• Techno Fab Mfg.Ltd/ Kol • Trident Auto comp.	T-24 T-29

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178	Roof Assly Complete for WAG-7		06/1/47/35 06/1/47/37 06/1/47/38 06/1/47/39 08/1/47/234 & 237 06/2/47/65 &59			<ul style="list-style-type: none"> Selvoc Entp. Navanirman Fab Kaypee Equipt Shiva Engg Works 	S-19 N-19 K-08 S-83	<ul style="list-style-type: none"> Trident Auto comp 	T-29
179	Roof Assly Complete for WAP-4		03/1/47/270 & 183 03/2/47/253, 254 & 257 03/1/44/111 & 112			<ul style="list-style-type: none"> Selvoc Entp. Navanirman Fab 	S-19 N-19	<ul style="list-style-type: none"> Kaypee Equipment 	K-08
180	Cab Assly Complete for WAG-7		05/1/35/161 & 179 and 06/1/35/78 & 85 Non C/F 06/1/35/91 & 87 and 03/1/35/ 351 for C/F Loco			<ul style="list-style-type: none"> Selvoc Entp Navanirman Fab Shiva Engg works 	S-19 N-19 S-83	<ul style="list-style-type: none"> Kaypee Equipt Jessop 	K-08 J-21
181	Cab Assly Complete for WAP-4		03/1/35/311 03/1/35/341 03/1/35/351			<ul style="list-style-type: none"> Selvoc Entp Navanirman Fab 	S-19 N-19	<ul style="list-style-type: none"> Punjab Industrial Works (P) Ltd. Techno Fab Mfg. Ltd/ Kol 	P-43 T-24
182	End Structure Assly		06/1/31/135 for WAG-7 03/1/31/133 for WAP-4					<ul style="list-style-type: none"> Trident Auto Comp. Accropoly Metal Inds Navanirman Fabrication Bhilai Iron & Steel Processing Corp. Shiva Engg. Works Selvoc Enterprise 	T-29 A-81 N-19 B-60 S-83 S-19

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15. **BRAKE ITEMS:**

183	Reservoir above 50 L	MINOR		Three phase approved list to be followed					
184	Reservoir upto 50 L	MAJOR	0/3/65/83P 0/3/65/237P 0/3/65/236P	<ul style="list-style-type: none"> • D R steel • Recon Engg • Hydrodyne • B S Fabcon • Kayr Enterprises 	D-02 R-13 H-23 B-07 K-10	<ul style="list-style-type: none"> • Electromagnetic • Brite Metalloy • ELBE • Bhagabati Steel • Aardee • Kreb 	E-13 B-41 E-07 B-12 A-06 K-32		
185	Panel Mounted Brake Equip (Main & Aux.)	MAJOR	M/EL/52/6			<ul style="list-style-type: none"> • SIL/ Kolkata • Sab Wabco/ Hosur 	S-54 S-07		
186	Brake Cylinder (8"x8") Mounting X-4/6 nos. Mounting Z-4/6 nos.	MAJOR	O1/3/19/56 O3/3/19/1	<ul style="list-style-type: none"> • Elbe/ Howrah • Recon/ Kolkata • Haradhan & Co/ Howrah 	E-06 R-13 H-04	<ul style="list-style-type: none"> • Spare Parts India/ • Makali Ind. • Sab Wabco/ Hosur • S.N.Enterprise • P.C Ghosh • S.K.Engg • Jayshree Enterprise • Santra Engg/HWH 	S-45 M-09 S-07 S-06 P-01 S-71 J-11 S-72	• India Tools Craft/ Kol	I-09
187	1.25" Non-return Valve Type 86R	MAJOR	O/3/65/363	<ul style="list-style-type: none"> • Recon / Kolkata • Escorts/Faridabad 	R-13 E-24	<ul style="list-style-type: none"> • S.K.Engg./Howrah • Elbe/ Howrah 	S-71 E-06		
188	Check Valve (All Sizes)	MAJOR	O/2/65/102	<ul style="list-style-type: none"> • Recon/ Kolkata • WSF/ Kolkata • Escorts/ Faridabad • Elbe • Matriasis/ Howrah • Makali / Hwh 	R-13 W-01 E-24 E-06 M-16 M-09	• S.N.Enterprise/ Hwh	S-06		
189	3/8" Double Check Valve Type 24A	MAJOR	O/4/65/97	RDSO controlled item. RDSO approved latest version vendor list to be followed.					

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190	3/4" Duplex Check Valve Set at 5 ± 0.1 Kg. per square cm.	MAJOR	O/3/65/103	<ul style="list-style-type: none"> • Elbe/ Howrah • Recon / Kolkata • WSF/ Kolkata • Escorts/ Faridabad 	E-06 R-13 W-01 E-24	<ul style="list-style-type: none"> • Makali/ Howrah • Matriashis/ Hwh • S. K. Engg. Entrp. 	M-09 M-16 S-71		
191	3/4" Safety Valve Set at 11.5, 10.5 Kg/sqcm.	MAJOR	O/3/65/93	<ul style="list-style-type: none"> • Elbe/ Howrah • Makali/ Howrah • Recon/ Kolkata • WSF/ Kolkata • Sab Wabco/ Hosur • S K Engg 	E-06 M-09 R-13 W-01 S-07 S-71	<ul style="list-style-type: none"> • Haradhan & Co./ Howrah 	H-04		
192	1/2" Safety Valve Set at 8.5 Kg./Sq.cm.	MAJOR	O/3/65/63	<ul style="list-style-type: none"> • Elbe/ Howrah • Makali/ Howrah • Recon/ Kolkata • WSF/ Kolkata • Matriashis/ Howrah 	E-06 M-09 R-13 W-01 M-16				
193	1/2" Pressure Limiting Valve Set at 2.5 Kg./Sq.cm. and at 3.5 Kg/ sq.cm	MAJOR	O/3/65/90	<ul style="list-style-type: none"> • Elbe/ Howrah • Makali/ Howrah • Recon/ Kolkata • WSF/ Kolkata • Matriashis/ Howrah 	E-06 M-09 R-13 W-01 M-16				
194	Emergency Application Valve	MAJOR	O/3/65/197	<ul style="list-style-type: none"> • Elbe/ Howrah • Recon/ Kolkata • WSF/ Kolkata 	E-06 R-13 W-01				
195	Automatic Isolating Valve	MAJOR	O/3/65/186	<ul style="list-style-type: none"> • Elbe/ Howrah • Makali/ Howrah • Matriashis/ Howrah • Recon/ Kolkata • WSF/ Kolkata 	E-06 M-09 M-16 R-13 W-01				
196	3/8" Lever Operated Horn Valve	MAJOR	O/3/65/95	<ul style="list-style-type: none"> • Elbe/ Howrah • Makali/ Howrah • Matriashis/ Howrah • Recon/ Kolkata • WSF/ Kolkata • S.K.Engg/Howrah 	E-06 M-09 M-16 R-13 W-01 S-71				

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197	Horn Lever for CF Loco	MAJOR	1209-18..306-219 AB441-0V2 Type-2	• Faively Transport India Ltd	F-31				
198	MU-2B Valve		O/2/65/272	RDSO controlled item. RDSO approved latest version vendor list to be followed.					
199	Relay Valve Type C2		O/2/65/142	RDSO controlled item. RDSO approved latest version vendor list to be followed.					
200	D-I Auto Drain Valve			RDSO controlled item. RDSO approved latest version vendor list to be followed.					
201	A-9 Automatic Brake Valve with Handle		O/2/65/243	RDSO controlled item. RDSO approved latest version vendor list to be followed.					
202	SA-9 Independent Brake Valve with Handle		O/2/65/218	RDSO controlled item. RDSO approved latest version vendor list to be followed.					
203	D-1 Emergency Brake Valve		O/2/65/249	RDSO controlled item. RDSO approved latest version vendor list to be followed.					
204	F-1 Selector Valve		O/3/65/273	RDSO controlled item. RDSO approved latest version vendor list to be followed.					
205	C3W Distributor Valve with Reservoir, Isolating Cock & Filter		O/3/65/254	RDSO controlled item. RDSO approved latest version vendor list to be followed.					
206	Air Flow Measuring Valve		O/3/65/326	RDSO controlled item. RDSO approved latest version vendor list to be followed.					
207	R-6 Relay Valve		O/2/65/335	RDSO controlled item. RDSO approved latest version vendor list to be followed.					
208	All sizes of Isolating Cock (Ball type) & Drain Cock (Ball type)	MAJOR	O/2/65/364	• Bangalore Valves/ Bang. • S K Engg • Matriashis/ Howrah	B-08 S-71 M-16	• Recon Engg. Co. • Cavico Industrial • Makali/ Howrah • M. Engg. Works • S. N. Enterprise	R-13 C-09 M-09 M-02 S-06		

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209	3/4" Centrifugal Dirt Collector with drain Cock	MAJOR	O/3/65/76	<ul style="list-style-type: none"> • Elbe/ Howrah • Recon/ Kolkata • WSF/ Kolkata • Escorts/ Faridabad • Matriashis/ Howrah 	E-06 R-13 W-01 E-24 M-16	<ul style="list-style-type: none"> • Makali/ Howrah 	M-09		
210	1" Self Locking Angle Cock	MAJOR	O/2/65/221	<ul style="list-style-type: none"> • Elbe/ Howrah • Recon/ Kolkata • WSF/ Kolkata • Escorts/ Faridabad 	E-06 R-13 W-01 E-24	<ul style="list-style-type: none"> • Makali/ Howrah • Matriashis/ Howrah • S K Engg. 	M-09 M-16 S-71		
211	1.25" Angle Cock with Vent (BP & FP)	MAJOR	O/2/65/386	<ul style="list-style-type: none"> • Stone India/ Kolkata • Escorts/ Faridabad • S D Tech/ New Delhi • Faively Transport India Ltd / Hosur • Recon/ Kolkata • S.N.Enterprise 	S-54 E-24 S-03 F-31 R-13 S-06	<ul style="list-style-type: none"> • Bangalore Valves • Sree Ram Engg • S.K.Engg Entp 	B-08 S-48 S-71		
212	1" x 24" Hose Coupling Type-UIC 1"x34" Hose Coupling Type-UIC	MAJOR	O/3/65/66	<ul style="list-style-type: none"> • Elbe/ Howrah • Recon/ Kolkata • WSF/ Kolkata • Hardhan & Co/ Howrah • Soni Rubber Product/ Kol 	E-06 R-13 W-01 H-04 S-44	<ul style="list-style-type: none"> • Tourian/ Jamshedpur 	T-23		
213	1"x33" Sanding Hose Connection	MAJOR	O/3/65/116	<ul style="list-style-type: none"> • Haradhan/ Howrah • Elbe/ Howrah • Recon/ Kolkata • WSF/ Kolkata • Speclal Electric & Engg 	H-04 E-06 R-13 W-01 S-46	<ul style="list-style-type: none"> • Jayshree Entp/ Kol • Soni Rubber Prod/ Kolkata • Tourian/ Jamshedpur • Emanuel Enterprise 	J-11 S-44 T-23 E-29		

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214	3/4"X 30" Bogie Hose Connection	MAJOR	O/3/65/106	<ul style="list-style-type: none"> • Haradhan/ Howrah • Elbe/ Howrah • Recon/ Kolkata • WSF/ Kolkata • Soni Rubber Products/ Kolkata • Speclal Electric & Engg 	H-04 E-06 R-13 W-01 S-44 S-46	<ul style="list-style-type: none"> • Tourian Tubes • Hydrax International 	T-23 H-22		
215	2" x 27" Vac. Hose Coupling		IRS.P.T.M.VB 504M	RDSO controlled item. RDSO approved latest version vendor list to be followed.					
216	Air Brake Hose Coupling for Brake Pipe & Feed Pipe		I SK 73547 no.81027- S-01	RDSO controlled item. RDSO approved latest version vendor list to be followed.					
217	Flexible Hose Pipe for Sand Ejector. (N.B.8"mm x 650 long)	MINOR	O/3/65/402	<ul style="list-style-type: none"> • Javimns/ Kolkata • Sony Rubber Products • Indo Industrial/ Kol 	J-09 S-44 I-16	<ul style="list-style-type: none"> • Tourian Tubes/ Jamshedpur • Recon Engg. Co. • Sridhar (Through Emanuel Entp/E-29) 	T-23 R-13		
218	Flexible Hose for Aux. Compressor	MAJOR	0/3/65/402	<ul style="list-style-type: none"> • Javimns/ Kolkata • Soni Rubber Products • Special Elect. & Engg 	J-09 S-44 S-46	<ul style="list-style-type: none"> • Tourian Tubes/ Jamshedpur 	T-23		
219	1" Centrifugal Dirt Collector with drain Cock and Reservoir	MAJOR	O/2/65/115	<ul style="list-style-type: none"> • Elbe/ Howrah • Recon/ Kolkata • WSF/ Kolkata • Escorts/ Faridabad 	E-06 R-13 W-01 E-24	<ul style="list-style-type: none"> • Makali/ Howrah • Matriashis/ Howrah • S.K.Engg 	M-09 M-16 S-71		
220	1/2" & 3/8" Air Strainer Type-T (Horse Hair Type)	MAJOR	O/3/65/56	<ul style="list-style-type: none"> • Elbe/ Howrah • Recon/ Kolkata • WSF/ Kolkata • Sreeram Engg 	E-06 R-13 W-01 S-48	<ul style="list-style-type: none"> • Makali/ Howrah • Matriashis/ Howrah • Cavico Ind • Rohit Engg. Works • India Tool Crafts • National Engg. Co. • Baroda Engg • S K Engg Co 	M-09 M-16 C-09 R-19 I-09 N-01 B-09 S-71		

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221	1/2" & 3/8" Ait Strainer Type "T" with mettalic capsule (Sintered Bronze)	MAJOR	CLW/TS/99-90/0014 0/2/65/440			• S.K.Egg / Hwh • M.M.Hydro / Mumbai	S-71 M-59		
222	Air Driers		MP.0.01.00.06 (Rev.0.01) Dec'03	RDSO controlled item. RDSO approved latest version vendor list to be followed.					
223	3/4" Choke Fitting Size 5mm	MAJOR	O/4/65/73	• Elbe Ind./ Howrah • Makali/ Howrah • Recon/ Kolkata • WSF/ Kolkata • National Engg.Co/Kol.	E-06 M-09 R-13 W-01 N-01				
224	Brake Release and Sanding Switch	MAJOR	O/2/65/110	• Elbe/ Howrah • Makali/ Howrah • Recon/ Kolkata • WSF/ Kolkata	E-06 M-09 R-13 W-01				
225	Sanding Ejector Type GF	MINOR	O/2/65/114	• Elbe/ Howrah • Makali/ Howrah • Recon/ Kolkata • WSF/ Kolkata • Matriasis/ Howrah	E-06 M-09 R-13 W-01 M-06	• India Tool Crafts/ Kolkata • Sree Ram Engg/ Howrah	I-09 S-48		
226	Pneumatic Horn High Tone & Low Tone	MAJOR	O/2/65/109	• Elbe/ Howrah • Elgi/ Coimbatore • Makali/ Howrah • Matriashis/ Howrah • Recon/ Kolkata • WSF/ Kolkata	E-06 E-16 M-09 M-16 R-13 W-01	• S.K.Egg	S-71		
227	Wiper Assly. Complete w/o water arrangement.	MAJOR	CLW/AC/163	• Elgi Equipments Ltd / Coimbatore. • Recon Engg	E-16 R-13	• Chanda & Chanda /Hwh. • Electromech / Delhi & Haridwar	C-12 E-14		

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228	All types and sizes of Pressure gauges for non- CF loco	MAJOR	O/2/65/403 O/2/65/293	<ul style="list-style-type: none"> • Top Grip Indus Inst Pvt. Ltd./ Kolkata • N. Instruments/ Kolkata • Midlands & Co./ Kol. 	T-15 N-05 M-34	<ul style="list-style-type: none"> • H K Co/ Kolkata • Gluck Mfg Co./ Mumbai. 	H-02 G-13		
229	All types and sizes of Pressure gauges for C/F Loco (Other than Airflow indicator)	MAJOR	CLW/TS/99/CF-3	<ul style="list-style-type: none"> • Top Grip Indus Inst P Ltd • Midlands & Co/ Kol. • H. K. Co / Kol 	T-15 M-34 H-02				
230	Air Flow Indicator Gauge		O/2/65/269	RDSO controlled item. RDSO approved latest version vendor list to be followed.					
231	Non- MCI pipe fittings from Hex Bar like Socket, Nipples etc.	MAJOR	IS:226	<ul style="list-style-type: none"> • Tarudeep/ Kolkata • Satya Industries/ Kol 	T-03 S-16	<ul style="list-style-type: none"> • MAC Industries/Kol • Eskejee Engg./ Kol • Haradhan / Kolkata • Monosa / Howrah • National Engg Co/ Kol 	M-05 E-25 H-04 M-14 N-01		
232	MCI Pipe Fittings	MAJOR	IS:2107	<ul style="list-style-type: none"> • Bimal Engg/ Jalandhar • Liluah Iron Works/ Kol • Satya Industries/ Kol • J. Bahumukhi/ Bhiwani • Jupiter Metal Ind ./Jalandhar 	B-33 L-10 S-16 J-08 J-17	<ul style="list-style-type: none"> • B.M. Shruti/ Kolkata 	B-06		
233	Steel Pipes (Seamless Pipe)	MAJOR	IS:1239, Pt.I	<ul style="list-style-type: none"> • Indian Seamless/ Kol • Mah. Seamless/ Kolkata • Heavy Metal & Tubes 	I-15 M-08 H-26	<ul style="list-style-type: none"> • Kalyani Seamless Tubes Ltd./ Pune • Fluid Controls (P)Ltd./Mumbai 	K-03 F-12		
234	Copper Pipes	MAJOR	CLW/MS/3/O30	3- Ph latest version vendor list for item Copper Tube to be followed.					

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16. PAINTS & PROTECTIVE COATINGS:

235.	Rustop		MEDIUM	<ul style="list-style-type: none"> Hindusthan Petroleum Corporation Ltd./ Kolkata 	H-18				
236.	Pre treatment solutions		MEDIUM			<ul style="list-style-type: none"> Radiant Austin Paints /Kol Jenson & Nicolson 	R-28 A-55 J-14		
237.	Epoxy based zink phosphate primer, Pu Paint consisting of primer surfacer, Top Coats, thinner & Epoxy putty.		MAJOR M & C / PCN / 100 / 2005	<ul style="list-style-type: none"> MRF Limited / KOL Grand Polycoat CO. P. Limited /Vadodara Cippy Polyurethane Pune Austin Paints / Kolkata Jenson & Nicolson 	M-38 G-15 C-17 A-55 J-14				

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CHAPTER-II

LIST OF SAFETY ITEMS

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PROPOSED LIST OF APPROVED SOURCES FOR SAFETY ITEMS
(AS RECOMMENDED BY CELE’S COMMITTEE ON 00-05-06)

SN	ITEM		REGULAR SOURCE (PART – I)	DEVELOPMENTAL SOURCE (PART – II)
1	AXLE BOX HOUSING WITH GREASE NIPPLE (WITHOUT BEARING)		<ul style="list-style-type: none"> ▪ FAG (PBI) Vadodara ▪ NEI, Jaipur ▪ Anil Engineering, Hyderabad ▪ The Special Electric & Engg. Co. Mumbai ▪ KMRI / Kharagpur ▪ Ganash Foundry, Jodhpur, ▪ Simplex 	
2	BONDED RUBBER SANDWICH ASSLY FOR TAO & HITACHI	IRS: R-49-75 RDSO Spec No.- SK.DL-2126	<ul style="list-style-type: none"> • MGM Rubber • Besant Rubber, Mumbai • Treiieborge U.K (Through Ashika Commercial, Kol) • Phoenix Rubber, Kol 	<ul style="list-style-type: none"> • Wren India • Avadh Rubber
3	BRAKE BLOCK		<ul style="list-style-type: none"> • Zonal Railways Workshops 	
4	BRAKE SHOE KEY		<ul style="list-style-type: none"> • Zonal Railways Workshops 	
5	BRAKE HANGER LEVERS SLACK ADJUSTER		<ul style="list-style-type: none"> • CLW approved sources of brake gear arrangement to be followed 	
6	CONICAL RUBBER THRUST PAD		<ul style="list-style-type: none"> • MGM • Swan Rubber • A. K. Ind. / Howrah • Basant Rubber / Mumbai 	
7	(a) EQUALISER BEAM LONG & SHORT FOR WAM4 & WAG5 LOCO0S		<ul style="list-style-type: none"> • Simplex Engg. / Bhilai • Metro Steel Industries, Udhana • CLW • Bhilai Engg. Works • Standard Engg. / Kolkata 	<ul style="list-style-type: none"> • Anup Malleable • Linkers India • Electrovolt Equipments Pvt. Ltd • Maa Engineering, Kolkata
Sources to be audited for minimum facilities by CR				

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	(b) SPRING SEAT ASSEMBLY FOR WAM4 & WAG5 LOCOS			<ul style="list-style-type: none"> The Special Electric & Engg. Co. Mumbai KMRI, Kharagpur B.B Engg / Kanpur Kumar Engg. Works / NDLS B.N. Co., Howrah 		<ul style="list-style-type: none"> Paramount Sprinters 			
				Sources to be audited for minimum facilities by CR					
8	65MM & 70 MM PINS & BUSHES FOR EQUALISER & COMPENSATING BEAM			<ul style="list-style-type: none"> Vardhaman Industrial Fastners, Delhi Kristeel Corporation, Mumbai Kay Pee Equipment / Kolkata The Special Electric & Engg. Co. Mumbai Kanpur Expeller, Kanpur 		<ul style="list-style-type: none"> B.B. Engineering / kanpur Auto Pins, NDLS 			
9	ASSEMBLIES, COMPONANT & SPARES USED IN BG TRIMOUNT BOGIES FOR LOCOS OTHER THAN WAP/WAG-7 CLASS			Sources given by CLW for WAP 4 / WAG 7 class locos to be followed.					
10	LOOK OUT GLASS			DGS & D rate contact sources <ul style="list-style-type: none"> Hind Safety Glass Kanai Lal Dutta 		<ul style="list-style-type: none"> B.B. Glass / Jamshedpur Bright Glass Works / Kol G.S. Toughend Glass/New Delhi 			
11	SAFTY BRACKET			Brake Gear arrangement sources given by CLW to be followed					
12	TBU ASSEMBLY FOR WAG7 CLASS			<ul style="list-style-type: none"> SAB WABCO 		<ul style="list-style-type: none"> SIL Knorr Bremse 			
13	TIE BAR ASSLY			Brake Gear arrangement sources given by CLW to be followed					
14	GEAR IN 2 HALVES			<ul style="list-style-type: none"> GKW KPC, Pune Popular Mechanical works, Mumbai Kristeel Corporation, Mumbai BHEL, Bhopal G.G. Autogears 		<ul style="list-style-type: none"> Moulds and Dies, Mumbai 			
15	WEAR PLATES IRS R65-78			<ul style="list-style-type: none"> Tanco Engg. Kristeel Corporation, Mumbai Mailbro Engg. Works / Kol 		<ul style="list-style-type: none"> Cosmic Engineers / HWH Unitech Systems / Kol 			

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16	SUSPENSION TUBE FOR TAO 659 TM AND ITS ACCESSORIES COMPONENTS.			<ul style="list-style-type: none"> BHEL Tirupati Engg. / Kolkata Kay Pee Equipments / HWH KMRI / Khragpur CLW / Chittaranjan Simplex Casting / Bhilai 		<ul style="list-style-type: none"> Indore Nitriders Simplex Engg / Bhilai Sonak Engg. / Thane Hyderpad Ind. / Kol. Special Engg. / Kol
17	TM SUSPENSION BEARING OIL PUMP			<ul style="list-style-type: none"> Amar Metring Pump, Coimbatore Iyappan Industries, Chennai B.L. Engg. / Kol Vikarant Engg. Works, Kol Panesar Engg. / Kaithal 		
18	TRACTION MOTOR (TAO659) INSPECTION COVER			<ul style="list-style-type: none"> Kay Pee Equipments / HWH The Special Electric & Engg Co Mumbai B.B. Engg. / Kanpur AAA Techno, Mumbai Tirupati Engg. / Mumbai R.P.Machine Tools, GZB Electro Mechanicals, Jhansi, Kanpur Expeller, Kanpur Kumar Engg. Works / NDLS 		
19	MASTER CONTROLLER			<ul style="list-style-type: none"> Stesalit Ltd., Kol Asian Plastics Plasto Metal Industries 		
20	DOUBLE BOTTLE VCB AND SPARES			<ul style="list-style-type: none"> Alsthom 		
21	(a) MATELLIC PINON FOR SB OIL PUMP			<ul style="list-style-type: none"> GKW KPC, Pune Popular Mechanical works, Mumbai Kristeel Corporation, Mumbai BHEL, Bhopal G.G. Autogears 		<ul style="list-style-type: none"> Moulds and Dies, Mumbai

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	(b) NYLON PINION FOR SB OIL PUMP			<ul style="list-style-type: none"> Popular Mechanical works, Mumbai Laminic Industries, MB Quadrant EPP Surlon (!) Ltd. 		<ul style="list-style-type: none"> Moulds and Dies, Mumbai 		
22	END SHIELD OF AUXILIARY MOTORS			<ul style="list-style-type: none"> Electro Mechanicals, Jhansi, The Special Electric & Engg. Co. Mumbai B.B. Engg. / Kanpur AAA Techno, Mumbai R.P.Machine Tools, GZB 				
23	ARNO CONVERTER 120 KVA		CLW/ES/A-1	<ul style="list-style-type: none"> Jyoti Ltd. 		<ul style="list-style-type: none"> CGL 		
24	ARNO STRATING CONTACTOR C118		CLW/ES/C-15	RDSO Controlled Items				
25	BATTERY CHARGER (CHBA)		CLW/ES/B-11	<ul style="list-style-type: none"> Light Equipments Associates Equipment 		<ul style="list-style-type: none"> Electricals Electronics 		
26	RESISTANCE FOR ARNO STRATING		CLW/ES/R-6	<ul style="list-style-type: none"> Santone Electronics Hiltone Electronics Lachhman Electronics RSI Switchgear Pvt. Ltd 				

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