

Major items of COS/CLW/Chittaranjan Purchase office

SI	Items	SI	Items
1	Accessories of 3Ph Stator Chamber	32	Adhesive Glass Cloth Tape
2	Safety Divice of WAP-5 Loco Gear Box	33	Silicon Impregnating Resin SILRES
3	Complete Temperature Sencor Assly for	34	Auxiliary Material 38
4	Temperature Sencor Assly [Complete] for 6FRA-6068 and 6FXA-7059	35	Basic Resin SL-32 & Accelerator-27
5	Complete Assly Temperature Sencor for 6FRA-6068	36	Thinner for Stator Washing
6	Gear 72 Teeth & Pinion 20 Teeth	37	Silicon Rubber-622A & 622B, Primer
7	Gear 67 Teeth, Intermediate Gear 35 Teeth & Pinion 17 Teeth	38	Brazing Rod
8	Gear Case Complete For WAG-9 7 WAP-7	39	Copper Welding Wire
9	Bull Gear 107 Teeth & Pinion 21 Teeth	40	Primer Paint (4 items)
10	Ger Box Case (Machined) For WAP-5	41	Polyimide Strip (3 items)
11	Winding Wire Flat FI CU FO 13 CR Size: Bare (4.00 X 2.00) MM & Insulated (4.23 X 2.23) MM. Insulated (4.23 X 2.23) MM.	42	Polyamide (NOMEX) PAVLIES-I
12	Rotor Bar (Macnined)	43	Glass Fabric Cord (3 items)
13	Shrink Ring (Machined)	44	Glass Tape (EGT), Size: 0.18 x 25
14	Resistance Ring (Machined)	45	Set of Roller Bearing for 3-Ph 6FRA-6068
15	Terminal Board Assly (Complete)	46	Cylindrical Roller Bearing DE & NDE
16	Lubricating Grease Servoplex	47	Set of Stator & Rotor Stampings 6FRA-6068
17	Set of Ststor Chamber & Associated Components [Each Set Consisting of 14 Items]	48	Set of Stator & Rotor Stampings 6FXA-7059
18	Speed Probe Housing (CNC)	49	Set of Roller Bearing For FXA-7059
19	Welding Plate	50	Set of Motor Suspension Unit For 3Ph
20	Neutral Conductor Ring Assly (Without Insulation)	51	Pressure Sensor oil circuit transformer and Amplifier to Sensor oil circuit
21	Tension Bar (Modified)	52	Master controller
22	Set of Ststor Chamber & Associated Components [Each Set Consisting of 15 Items].	53	Temperature Sensor oil circuit transformer
23	Description of Item	54	Disc Brake Arrangement
24	Set of Labyrinth 08 Items	55	Cubicle SB-1 and SB-2 (bare)
25	Rotor Shaft (Rough Machined)	56	Tread Brake Arrangement
26	Clamp Assly (Without Welding Plate)	57	Battery Box complete
27	Rotor Shaft (Rough Machined)	58	Elastic Ring
28	Complete Stator Assly for 3 Phase TM. Type 6 FRA-6068	59	Cubicle HB-1 and HB-2 (bare)
29	Thrust Carrying Piece	60	Modified Bare Cubicle HB-1 and HB-2 with hotel load converter based
30	Welding Plate	61	Driver Display unit
31	Connection Complete With Clamping Plate (Without Insulation)	62	Complete cubicle SB-1 and SB-2

63	Name Plate	83	Modified Cow Catcher Assly for WAG-9 & WAP-7
64	End Frame/DE Assly.	84	Modified Cow Catcher Assly for WAG-5
65	End Frame/NDE Assly.	85	Reservoir (consisting of 3 reservoir)
66	Machined Stator Assly (Modified)	86	Reservoir (consisting of 2 reservoir)
67	Rotor End Ring (CNC Machined)	87	Cattle Guard for WAP-5 suitable for High Speed
68	Connection Complete With Clamping Plate	88	Flange for WAP-7
69	Name Plate For Rating	89	Main Transformer 7775 KVA
70	Kits for Temperature Sencor Assly (Co-Co)	90	IGBT based Traction Converter
71	Zirconium Copper Stamping as per RDSO approved QPA	91	IGBT based Auxiliary Converter
72	Complete Rotor [Scheme-II Design] Using Zirconium Copper Punched Design Resistance Ring Mechanically Interlocked with End Ring For 3Phase Traction Motor Type 6FRA-6068	92	2x500 KVA IGBT based Hotel Load Converter
73	Description of Item	93	IGBT based 3-phase Drive Propulsion Equipment
74	Rotor Bar for Scheme-I Rotor & Rotor Bar for Scheme-II Rotor	94	Central Electronics
75	End Ring Plate for Scheme-I Rotor	95	3-Ph Traction Motor type 6FRA 6068
76	Zr-Cu Punching Type Resistance Ring Mechanically Interlocked to End Plate for Scheme-II Rotor	96	3-Ph Traction Motor type 6FXA 7059
77	Rotor End Ring for Scheme-II Rotor	97	Brake Control System for WAG-9
78	Associated Components of Machined Stator. Each Set Consisting of 11 (Eleven) Items	98	Brake Control System for WAP-5
79	Rotor Shaft (Finished Machined)	99	Twin Tower Air Dryer
80	Machined Terminal Box Assly.	100	Main Compressor
81	Set of Stator Chamber DE & NDE (CNC Machined)	101	Mica Glass Fabric Tape MIGI, 0.12 x 15mm
82	Terminal Box Cover Assly	102	Polyimide Foil (Kapton), 0.125 x 510

Major Electrical items of COS/CLW/Kolkata Purchase office

SI	Items	SI	Items
1	Cable Single Core	46	Oil Pump Bracket Fixing
2	Cable 3 GKW (02 items)	47	Set of spacer for WAG-9 and WAP-5
3	Cab Twist (Multiple core cable)	48	Sliding Block M8
4	Primary Voltage Transformer	49	Set of Base for cable Ties
5	Scavenge Blower to MR Blower	50	Set of Cable Tie
6	Machine Room Blower	51	Set of Clamp Hinge Base Assly.
7	Traction Motor Blower	52	Ball Valve G ¾
8	Resistor Harmonic Filter WAP-5	53	Cable conduit-05 items
9	Set of Wire Wound	54	Set of Shackle
10	Driver Desk	55	Set of Nipple
11	Spring loaded switch(5-items)	56	Set of Support
12	F.L. Lamp for Driver Cab	57	Set of Union for WAP-5 & WAG-9
13	Earthing switch for VCB + locking arrgt.	58	Set of Metallic Pipe
14	Surge Arrestor	59	Set of Non-metallic Pipe(Smoke Detector)
15	Battery Ni-Cd	60	Set of Copper Braid
16	Oil cooling Unit	61	Set of Casing
17	Earth return brush with brush holder.	62	Set of cable disconnection TM-1 to TM-6
18	Set of Roof Bar	63	Set of cable Lug
19	Load Register	64	Set of Bracket for P-7 & G-9
20	Earthing Choke	65	Set of Looming Bars
21	Cable 4 GKW	66	Cable Gland
22	Cable Multicore	67	Set of Plastic
23	Terminal Bar 110V/DC	68	Fire Resistance Cement
24	Key Multiplier	69	Set of Gasket Non Metallic
25	Contactora for Main Compressor	70	Set of Bracket Sheet
26	A/C Circuit Brakers	71	Set of Cover
27	Earth Fault Relay	72	Set of Blower Gasket
28	Bazzer Over Speed/Fire alarm vigilance warning	73	Set of Bus Bar and accessories
29	Discharging Resistor for Contactors	74	Set of Insulation
30	Primary Current Sensor	75	Set of Clip for Pipe
31	Rotery switch (3-items)	76	Set of Insulator
32	Discharging Register for Capacitor	77	Set Nylon Spacer(Filler Size)
33	Push Button for emergency stop	78	E.I.T. (11 Items)
34	Cantinary voltmeter and Voltmeter battery	79	Set of Cable Tray
35	Tractive Brake effort meter	80	Set of fitting
36	Socket Hand Lamp	81	Set of Connector
37	Transformer Module Primary voltage	82	Set of Rubber Items
38	CapacitorBank Harmonic etc	83	A.B.S. Solvent Cement
39	Aux. Transformer	84	Scotch Danger
40	Cab Heater/Ventilation Assly	85	Set of earthing cable
41	Head Light Lamp	86	Set of Rating Plate
42	Illumin. Push Buttons & Indication Lamp	87	High Voltage Bushing
43	Crew Fan	88	Snubber Circuit
44	Fuse Auxiliary	89	Set of Fibre Optic cable (05 items).
45	Primary Current Transformer	90	Contactora Auxiliaries in HB-1 & HB-2

91	Pantograph Disconnecting	137	Set of other Hoses
92	Spring loaded switch-I	138	Set of Angle Plate
93	Latching Push Button	139	Set of Copper Plate for WAG-9 & WAP-5
94	Oil pump transformer and Converter	140	Set of Non Metallic Plate
95	Illumination Pneumatic Gauges	141	Set of Panel Plate
96	Oil Cooler Radiator	142	Set of Metallic Plate
97	Set of Metallic Hoses	143	Sealing Adhesive
98	Set of Neoprene Hose(Non-Metallic)	144	MCB for Air Dryer
99	Non Metallic S.D. Sleeve	145	Glass/Fuse /Cartridge fuse
100	Cable Sleeves (03 items)	146	Set of U-Section
101	Set of Pipe Saddle	147	Rubber Packing
102	Cable Cleat of Glass Fibre	148	Head Light Dual Housing
103	Cable Cleats with DIN Rail	149	High Reach Pantograph
104	Aluminium Cable Cleats	150	Rotary Switch Cab Heater
105	Time Relay/ Contactor Power supply cab	151	Cab activation Key switch
106	Contactor Type-6 & Type-4 (LTC)	152	Scavenge Blower to MR Blower
107	Fire Detection Equip.	153	UIC Socket
108	Maximum Current Relay	154	S.D. Sleeve DTMS
109	Auxiliary Contactor for VCB	155	2-Couplers with 3 meter harnessed cable
110	D.C. D.C. Converter	156	Rubber Gasket for Vac. Circuit breaker
111	Snubber Circuit	157	Rubber Gasket for Assy of OCB & OCR
112	Circuit Breaker without Auxiliary	158	Insulating Plates for WAP - 7
113	Blocking Diode	159	Crew Voice & Video Recording system
114	Cable Clip	160	Set of Insulating Plates for SAP - 7
115	Time Relay for M.R.B	161	Tube 10/7 PA-12
116	Relay On Off	162	Resistor Harmonic Filter
117	Minimum Voltage Relay in SB-1	163	Main Circuit Breaker (VCB)
118	Socket Mounting Sheet Assly.& Panel Assly.	164	Auxiliary Compressor (MCPA)
119	Hose for Cab Heater	165	Roof Insulator Pantograph Mounting
120	Capacitor for Bur ½	166	Led Marker Light
121	Ferrit Core	167	Auxiliary Switch for HB-1
122	Socket Hotel Load	168	Stop Insert for Bur 1/2
123	Current Sensor Hotel Load	169	Resistor Support
124	Set of Cable Tray	170	Set of Wago type Terminal
125	Set of Cover for WAP-5	171	First on Lug
126	Set of Insulation	172	Loctite
127	Set of Cable Disconnection	173	Set of Terminal Block
128	Set of Support for WAP-7 & WAP-5	174	Terminal Box
129	Set of Non-metallic Pipe for WAP-5	175	T-Type Cable Head
130	Set of Bracket for WAP-5	176	Auto Flasher
131	Set of Plate for WAP-5	177	Roof Mounted Air Conditioning System
132	Set of Rating Plate for P-7 & P-5 (Uncommon)	178	Key Switch Simulation in SB-1
133	S.R.BGF Cleat (fibre glass)	179	Pantograph (i) AM 12 (II) AM 92
134	Set of Spacer	180	Led based flasher light
135	Set of Bas Bar & accessories	181	Micro Processor (Speedometer)
136	Flat Wire Resistor BUR 1/2	182	Wooden Skit

Major Mechanical items of COS/CLW/Kolkata Purchase Office

SI	Items	SI	Items
1	Complete Shell Assly	40	Copper Tube for 6 MM mm
2	Side Wall Assly WAG-9	41	Side Wall Assly WAP-7
3	Axle Box Complete w/o CRU-150 ,	42	Drive Assly. Components
4	Head Stock Assly. for WAG-9H	43	PUSH/ PULL ROD for WAG-9/WAP-7
5	Cab Assly. Complete for WAG-9/WAP-7	44	Brass Pipe Fittings for forWAG-9, WAP-7 CCB Brake
6	Bogie Frame Assly. for WAG-9	45	HTT CB Coupler
7	Bogie Frame Assly. for WAP-7	46	Wheel Set Guide for ,WAG-9/WAP-7
8	Cyl. Roller Unit CRU-150`for G-9, P-7	47	Damper for WAP-7, For 99 L/Set
9	Helical Compression Spring G9	48	Long Life Loco Side Buffer
10	Helical Compression Spring p7	49	Housing for WAG-9/,WAP-7/WAP-5
11	Helical Compression Spring P5	50	Cab Side Door for WAG-9/WAP-7/, WAP-4/WAG-7s
12	Centre Sill Complete for WAG-9H	51	S. S. Pipe Fittings forWAp-7 for CCB Brake
13	Spheribloc for WAG-9 /WAP-7	52	Wiper Assly. Complete For 339 L/Sets
14	Roof Assly. Complete for WAG-9/WAP-7	53	Junction Box Assly. G-9,WAP-7
15	Filter Assly.	54	Break Gear Arrgt. for WAP-7
16	Crown Gear	55	Axle Box Bearing /Tapper Roller
17	Central Under Frame Assly for WAG-9/WAP-7	56	M/c Room Door for WAG-9/WAP-7/WAP-5
18	Head Stock Assly.for WAP-7	57	Ducting Assly
19	Bolster Assly for WAG-9H	58	Drivers Desk Frame Assly.
20	Set of S.S.Tube for WAG-9/WAP-7 Size: 38.1mm,	59	Spheribloc
21	S.S.Tue O/D 25.4(1") x 2.108 WT	60	S.S.Louvre Assly for WAG-9/WAP-7/
22	S.S.Tue O/D 22 mm x 1.5 mm W	61	Windows for Conv.& 3-Ph. Loco
23	S.S.Tue O/D 15 mm x 1.5 mm WT	62	Wheel Set Guide
24	S.S.Tue O/D 12.7 mm x 0.889 WT	63	Bolster Assly. for WAP-5
25	S.S.Tue O/D 10 mm x 1 mm WT	64	Filter Cubicle
26	Bearing For Main Intermediate Gear & Pinion	65	Fire Extinguishing System
27	S.S.Pipe Fittings (46 items) ,For WA G-9	66	Accessories of Fire Extingusing
28	S. S. Pipe Fittings forWAG-9 for CCB Brake	67	Fire Extinguishing System
29	Axle Box Complete W/O Bearing	68	Accessories of Fire Extingusing
30	Side Sill Assly. for WAG-9/WAP-7	69	Transition Duct Assly.
31	Damper for WAG-9/ WAP-7	70	Inter Lock Assly For Cab Door
32	Centre Sill Complete for WAP-7	71	S. S. Pipe Fittings for Bogie Piping of WAG-9H Loco.
33	General Arrgt of floor Ventilation	72	Stainless Steel Pipe Fittings
34	Brass Pipe Fittings G9, P-7	73	Damper
35	Copper Tube for38.1 mm	74	Aluminum pressed section
36	Copper Tube for , Size:25.4 (1")mm O/D	75	Spring Guide for ,WAG-9/WAP-7
37	Copper Tube for 5,Size: 12.7 mm O/D x20 GA	76	Set of Chain
38	Copper Tube for 10 mm	77	F.S. All Steel Lock Nut for WAP-5
39	Copper Tube for Size: 9.52 mm O/D x18 GA	78	F.S. All Steel Lock Nut for WAG-9, 7

79	Copper Tube for Size:9.52 GA mm O/D	120	Head Stock Assly. for WAP-5
80	Copper Tube for 6.35 mm mm	121	Driver's Seat & Pedestal Assly. G-9, P-7, P-5
81	Blind Installation , (L.H. &R.H.)	122	Leather Bellows(Single Sec.) for ,WAG-9/WAP-7
82	Wind Screen Assly	123	Copper Pipe Fittings for WAG-9/AP-7
83	Torque Support, WAG-9,WAP-7	124	Self Gripping Rubber G-9, P-7
84	Holder for TM Suspension	125	Protection Plate Assly
85	M. S. Hardware Items for WAG-9	126	F.R.P. Under Panel of Cab
86	M. S. Hardware Items for WAP-7	127	Bellow Traction Motor (Inlet)
87	Tube for WAG-9,WAP-7	128	Rubber Support
88	Cab Assly. Complete for WAP-5	129	Rubber Stop
89	Steel Pipe Fittings	130	Steel Socket WAG-9,WAP-7
90	Brass Pipe Fittings	131	Steel Socket WAP-5
91	St. Steel pressed section-G9, P-7	132	Set of Chain
92	Stn .Steel hardware G-9,P-7	133	Motor Support RH& LH Modified G-9, P-7
93	Cubicle F-Drivers CAB G-9,P-7,P-5	134	Spacer G-9, P-7
94	Steel Pipe Fittings forWAG-9, WAP-7 for CCB Brake	135	Impregnated Compressed Lamination
95	T.M.Below Mounting Assly for Leather Below. G-9, P-7	136	Sand Box Assly.
96	Central Under Frame Assly. for WAP-5	137	Modified Double Safety Sling
97	Steel Chequered Plate	138	Alluminium Pressed Section
98	Sand Box Assly.	139	Al. Sheets and Plates for G-9, P-7
99	Bolster Assly. for WAP-5	140	S.S. Sheets Plates, Bars
100	Fire Extinguisher & Bkt. For WAG-9	141	Axle Guide Bearing
101	Al. Perforated Sheet for AC Cab) G-9,P-7	142	Screw Hex HD (25 items) G-9,P-7
102	Gasket (Non Mettalic)	143	Safety Flooring & PVC Flooring
103	Cab Side Door for WAP-5	144	Channel Unistruts G-9,P-7
104	Modified Striker Casting	145	Flexible Hose Assly. For Sets
105	Side Sill Assly. for WAP-5	146	Saddle Light Stuff for WAG-9/WAP-7
106	Polypropylene Components	147	Stainless Steel Trough
107	Side wall Assly. For Machine Room for WAP-5	148	S.S. Pressed Section
108	Insulating Base for WAG-9 (Big)	149	Circuit Breaker Box Assly.
109	Roof Hatch Assly. for WAP-5	150	Foot Steep Assly for WAG-9
110	Lock Assly. for M.R. Door	151	Tube
111	S.S. Steel plates & Bar G-9, P-7	152	Stop (Lateral & Vertical)
112	Filter Frame Assly. For 214 Sets	153	Set of union of fittings for filter cubical for WAG-9/ WAP-7
113	Impregnated Laminates	154	Housing Ring G-9,P-7
114	Steel Pipe Fittings for Bogie Piping of WAG-9H Loco	155	1)Hose for scavenge WAG-9,WAP7
115	Fibre Glass Insulation Kit	156	2) Rubber hose for scavenge blower .WAP-5
116	Central Sill Assly. for WAP-5	157	Marchant flat bars for under frame G-9, P-7
117	Duct Assly.(Excluding Duct Assly).	158	Stainless Steel Hardware Items
118	Misc. hardware Items G-9, P-7,P-5	159	Set of Nylock Nut G-9,WAP-7
119	S. S. Hardware Items G-9,P-7	160	Stainless Steel Hardware Items

161	Pivot for WAG-9/WAP-7 /WAP-5	206	Clamp for WAG-9/WAP-7
162	Torque Arm	207	Insulating Base –WAP-,7,
163	Platform Assly	208	Insulating Base for WAG-9 (Small)
164	Tube for WAG-9 (Cons 3 items)	209	Flexible Hose Assly.
165	Grill Assly. protection Grill	210	Al. chequered Plate G-9,P-7
166	Safety Sealing for TM-6FRA 6068. G-9, P-7	211	Bolt Hex Head
167	Wire Rope for G-9,P-7,P-5	212	Set of Flat Washer WAP-5
168	Din Rail for WAG-9/WAP-7	213	Flat Washer 11 items for G-9,P-7
169	Al. Perforated Sheet	214	Threaded Bolt G-9, P-7
170	7 items of Pop-Rivet G-9, P-7, P-5	215	SIM &PAD WAG-9,WAP-7
171	Bolt for WAG-9/WAP-7	216	Ducting Assly. (Only Ducting Elbow)
172	Hex Weld Nut for WAG9	217	Gasket (Special) WAG-9,WAP-7
173	Hex Weld Nut for WAP-7	218	Clamp
174	Tube for WAP-7	219	Locking plate G-9,P-7.P-5
175	Foot Steep Assly for WAP-7	220	Air Diffuser
176	Clips for WAG-9,WAP-7	221	Mounting Bracket
177	Marchant flat bars for Cab G-9, P-7	222	Hexert Threaded Insert M6 G-9, P-7
178	Conduits For Cable (Under Frame Conduits)	223	Door Latch Assly.G-9,P-7.P-5
179	Un common S.S Hardware for mounting of leather below G-9, P-7	224	Door Hinge stainless Steel
180	T,M Below Mounting for WAP-5	225	Pivot Ring G-9,P-7
181	Air Outlet Assly.	226	Captive Bolt
182	Steep Assly G-9,P-7	227	Merchant Flat Bars For Side wall assly. for WAP-5
183	Sika Flex 252 G-9, P-7	228	Gasket (Mettalic) for WAG-9,WAP-7
184	Copper Pipe Fittings	229	Clips
185	Stn .Steel hardware items G-9,P-7	230	Grommet dia-40 G-9,P-7,P-5
186	Axle Holder for T.M Suspension G-9,P-7	231	Lock (Qtr. Turn) for WAG-9/WAP-7,
187	Bracket Outer	232	U-Bolts. G-9,P-7.P-5
188	Distance bolt G-9, P-7	233	Pipe OD 1104.3 x100NB G-9,P-7,P-5
189	Steel Pipe Fittings	234	Screw Slotted Pan head for G-9, P-7
190	Sikaflex-221 WAG-9,WAP-7	235	Protection pipe
191	Channel Unistrut	236	Nacked down Bolt G-9, P-7
192	Threaded Bolt Modified	237	Fixing Cable
193	Cover Assly. (Security Lock)	238	Bush Megi H.L. WAG-9 /WAP-7/WAP-5
194	Sealing Rubber	239	Set Of Protection Pipe
195	Din Rail for Assly. shop	240	Plug for WAG-9/WAP-7
196	Corrugated Flexible Hose G-9,P-7 ,P-5	241	Captive Bolt G-9,P-7
197	Step Arrangement	242	Bolt dia-12 G-9, P-7
198	Capacitor Box Assly G-9,WAP-7	243	Clamp Assly for WAP-7
199	Helical Spring Washer WAP-5-	244	Dwell Pin & Guide Pin
200	Helical Spring Washer G-9, P-7	245	Metallic washer-34, WAP-7
201	Al. sheets Plates, Flat, Bars	246	Cap screw socket head 02 items WAG9,WAP7
202	Nyloc Nut Hex	247	Bracket Inner
203	Socket Hd.Cap Screw for WAP-5	248	Fixing cable
204	Screw counter sunk slotted for WAP-5	249	Spacer for WAG-9,WAP-7
205	Screw counter sunk slotted,WAG9,WAP7	250	Conical Spring for WAP-5, G-9 & P-7