

**PROCUREMENT PROJECTION- FY 2020-21 TO FY 2024-25 (OPERATIONS & MAINTENANCE)**

**Disclaimer: The below information is purely indicative and Department of MoHUA / Kochi Metro Rail Limited will not be liable to any potential bidder for any decision taken / not taken on the basis of the projected figures.**



Sr. No	Department	Description of Item	Broad Specification Parameters	Quantity	Accounting Unit(Nos./Kilometers/ Tonnes)	Estimated value of Procurement in Lakhs (INR)
<b>Financial Year 2020-21</b>						
1	Rolling Stock	Tune up Kit	RST/M&P/ATWP/Reciprocating Compressor	1	Nos	0.20
2	Rolling Stock	Socket Set	RST/Tools	2	set	0.48
3	Rolling Stock	Battery Operated Torgue Gun	RST/Tools	1	Nos.	0.49
4	Rolling Stock	Vertical Drilling Machine	RST/Tools	1	Nos.	13.50
5	Rolling Stock	Clamp on metere	RST/Tools	2	Nos.	1.40
6	Rolling Stock	Insulation Tester	RST/Tools	1	Nos.	0.44
7	Rolling Stock	Thermo meter	RST/Tools	2	Nos.	0.72
8	Rolling Stock	Sound Level Meter	RST/Tools	1	Nos.	0.23
9	Rolling Stock	Phase Indicator	RST/Tools	1	Nos.	0.23
10	Rolling Stock	Lux Meter	RST/Tools	1	Nos.	0.23
11	Rolling Stock	Humidity Logger	RST/Tools	1	Nos.	0.46
12	Rolling Stock	10 kv high voltage tester - HV Tester5kv AC/7kv DC HS5	RST/Tools	1	Nos.	0.44
13	Rolling Stock	Multi Meter	RST/Tools	1	Nos.	0.38
14	Rolling Stock	Pressure gauge with test point set, (0-700 bar)	RST/Tools	2	Nos.	6.40
15	Signalling	RI-LED aspect matrix	Confirming to RDSO/SPN/153/2011 or latest	1	Nos.	0.65
16	Signalling	MCCB 2A	MCCB 2A	1	Nos.	0.01
17	Signalling	RCCB 2A	RCCB 2A	1	Nos.	0.01
18	Signalling	IMD-DC	IMD-DC - 5TT3470	1	Nos.	0.03
19	Signalling	IMD-AC	IMD-AC- - 5TT3470	1	Nos.	0.03
20	Signalling	24V DC LED indicators	21mm diameter Model 3PLBRL24 Green-code 2316 Product name-Harmony XB7 Green-XB7EV03BP3	3	Nos.	0.01
21	Signalling	230V AC LED indicators	22mm diameter Model LHLR240AC Red-Code 0116 Yellow-code 2316 Blue-code 1216 Product name-Harmony XB7 Red-XB7EV03BP3	3	Nos.	0.01
22	Signalling	440V AC LED indicators	22mm diameter Model LHLR415AC Red-Code 2716 Yellow-code 2716 Blue-code 2716 Product name-Harmony XB4 Red-XB4BV5B3	3	Nos.	0.01
23	Signalling	Indication LED-Input/Output point machine LED (415 VAC Teknik/Schiender Model2LHLR)	22mm diameter Model LHLR415AC Green code-1516 Product name-Harmony XB4 Green-XB4BV5B3	5	Nos.	0.02
24	Signalling	240V Indication LED	22mm diameter Model 3PLBRL240AC Green-code2316 Product name-Harmony XB7 Green-XB7EV03MP3	10	Nos.	0.04
25	Signalling	30VDC PS LED (30 V DC POWERSUPPLY) GREEN	MAIN HOUSING : POLYCARBONATE LENS MATERIAL : ACRYLIC LENS COLOUR : GREEN POLYCARBONATE LENS MATERIAL : ACRYLIC LENS COLOUR : GREEN	3	Nos.	0.01
26	Signalling	24VDC PS LED (24 V DC POWERSUPPLY) GREEN	MAIN HOUSING : POLYCARBONATE LENS MATERIAL : ACRYLIC LENS COLOUR : GREEN POLYCARBONATE LENS MATERIAL : ACRYLIC LENS COLOUR : GREEN	3	Nos.	0.01
27	Signalling	30VDC PS LED (30 V DC POWERSUPPLY) RED	MAIN HOUSING : POLYCARBONATE LENS MATERIAL : ACRYLIC LENS COLOUR : RED POLYCARBONATE LENS MATERIAL : ACRYLIC LENS COLOUR : RED	3	Nos.	0.01
28	Signalling	24VDC PS LED (24 V DC POWERSUPPLY) RED	MAIN HOUSING : POLYCARBONATE LENS MATERIAL : ACRYLIC LENS COLOUR : RED POLYCARBONATE LENS MATERIAL : ACRYLIC LENS COLOUR : RED	3	Nos.	0.01
29	Signalling	PDC lighting (LED strips-230V compatible 5W)	(LED strips-230V compatible 5W)	3	Nos.	0.03
30	Signalling	Cache battery for server	3V Lithum button battery of dia 2cm	3	Nos.	0.03
31	Signalling	Server battery for server	7.2 V, 8.64Wh, 1250mAh Li-ion battery, part no 72760-002 for Hpe servers. Depending on server battery will differ	3	Nos.	0.03
32	Signalling	1000 Base SFP M-SFP-LX/LC	1000 Base SFP M-SFP-LX/LC	10	Nos.	0.50
33	Signalling	100 Base SFP M-FAST SFP-SM/LC	100 Base SFP M-FAST SFP-SM/LC	20	Nos.	1.00
34	Signalling	SFP-1GLXLC-T V1.1 (Single-mode/ 1.25Gpbs/1310 nm)	SFP-1GLXLC-T V1.1 (Single-mode/ 1.25Gpbs/1310 nm)	10	Nos.	0.50
35	Signalling	SC/LC SINGE MODE 20M PATCH CHORD	SC/LC SINGE MODE 20M PATCH CHORD	40	Nos.	0.20
36	Signalling	LC/LC SINGLE MODE 5m patch chord	LC/LC SINGLE MODE 5m patch chord	6	Nos.	0.03
37	Signalling	Cooling fan	230v, 50hz 150mm fan for screw attachment please refer Image image 9	3	Nos.	0.15
38	Signalling	Atteunater 5dBm	5 dBm RF	5	Nos.	
<b>Financial Year 2021-22</b>						
1	Rolling Stock	External camera housing	For Rolling Stock (Train)	2	Nos	1.16
2	Rolling Stock	Cab Skirt	For Rolling Stock (Train)	1	Nos	0.04
3	Rolling Stock	Wiper Assy.	For Rolling Stock (Train)	1	Nos	0.62

**PROCUREMENT PROJECTION- FY 2020-21 TO FY 2024-25 (OPERATIONS & MAINTENANCE)**

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Sr. No	Department	Description of Item	Broad Specification Parameters	Quantity	Accounting Unit(Nos./Kilometers/Tonnes)	Estimated value of Procurement in Lakhs (INR)
4	Rolling Stock	Passenger Seats Flip up	For Rolling Stock (Train)	1	Nos	0.09
5	Rolling Stock	Passenger Seats 7 seater	For Rolling Stock (Train)	2	Nos	0.62
6	Rolling Stock	Passenger Seats 4 seater	For Rolling Stock (Train)	1	Nos	0.25
7	Rolling Stock	Passenger Seats 2 seater	For Rolling Stock (Train)	1	Nos	0.12
8	Rolling Stock	Passenger Seats 2 seater with cushion	For Rolling Stock (Train)	1	Nos	0.14
9	Rolling Stock	Low Horn Switch	For Rolling Stock (Train)	1	Nos	0.25
10	Rolling Stock	High Horn Switch	For Rolling Stock (Train)	1	Nos	0.08
11	Rolling Stock	Sunvisors	For Rolling Stock (Train)	1	Nos	0.29
12	Rolling Stock	Strap hangers	For Rolling Stock (Train)	17	Nos	0.51
13	Rolling Stock	Auxilliary Fuse	For Rolling Stock (Train)	2	Nos	3.12
14	Rolling Stock	Internal LCD Display	For Rolling Stock (Train)	7	Nos	5.25
15	Rolling Stock	Equipment USB charging assembly with complete hardware interfaces	For Rolling Stock (Train)	20	Nos	4.40
16	Rolling Stock	Rubber Profile/Seal VAC unit roof	For Rolling Stock (Train)	10	Nos	3.60
17	Rolling Stock	DSD Buzzer	For Rolling Stock (Train)	1	Nos	0.03
18	Rolling Stock	EVIM Connector	For Rolling Stock (Train)	3	Nos	9.00
19	Rolling Stock	WFL Control unit(REBS)	For Rolling Stock (Train)	1	Nos	3.00
20	Rolling Stock	CCD Arm	For Rolling Stock (Train)	1	Nos	1.00
21	Rolling Stock	Drain hose flexible(VAC- car body) L420	For Rolling Stock (Train)	2	Nos	0.06
22	Rolling Stock	Drain hose flexible(VAC- car body) L450	For Rolling Stock (Train)	2	Nos	0.06
23	Rolling Stock	Head light LH	For Rolling Stock (Train)	1	Nos	0.12
24	Rolling Stock	Head light RH	For Rolling Stock (Train)	1	Nos	0.12
25	Rolling Stock	Flasher light	For Rolling Stock (Train)	1	Nos	0.25
26	Rolling Stock	Indication lamp (Push button)	For Rolling Stock (Train)	5	Nos	0.01
27	Rolling Stock	IP Switch	For Rolling Stock (Train)	2	Nos	2.68
28	Rolling Stock	Saloon light CVS DC/DC CONVERTER	For Rolling Stock (Train)	1	Nos	0.21
29	Rolling Stock	Spot light	For Rolling Stock (Train)	1	Nos	0.08
30	Rolling Stock	Windscreen	For Rolling Stock (Train)	1	Nos	0.78
31	Rolling Stock	Draught Screen (2 Types)	For Rolling Stock (Train)	2	Nos	0.54
32	Rolling Stock	Automatic drain device	For Rolling Stock (Train)	6	Nos	5.76
33	Rolling Stock	Air dryer (GW MODEL 975)	For Rolling Stock (Train)	4	Nos	7.12
34	Rolling Stock	Water separator	For Rolling Stock (Train)	4	Nos	2.04
35	Rolling Stock	Check valve 3/4"	For Rolling Stock (Train)	4	Nos	1.08
36	Rolling Stock	Photocell Transmitter	RST/M&P/ ATWP	2 Nos	Nos	0.40
37	Rolling Stock	Photocell receiver	RST/M&P/ ATWP	2 Nos	Nos	0.40
38	Rolling Stock	Safety Bumper Relays	RST/M&P/ ATWP	1 Set	Set	0.30
39	Rolling Stock	Switch gear(MCB, MPCB, etc.)	RST/M&P/ ATWP	1 Set	No Each	1.50
40	Rolling Stock	Tune up Kit	RST/M&P/ATWP/Reciprocating Compressor	1 No	Nos	0.20
41	Rolling Stock	Power supply (SMPS)	RST/M&P/ Two Post Lifting Jack	1 No	No	0.25
42	Rolling Stock	Battery 12v 110 Ah	RST/M&P/RRV	2 Nos	Nos	0.24
43	Rolling Stock	WFL OIL RAIL LUB	RST/ Consumable	937.5	kg	18.75
44	Rolling Stock	WFL stick	RST/ Consumable	750	Nos	15.00
45	Rolling Stock	MOLYKOTE M33	RST/ Consumable	1.25	Kg	0.10
46	Rolling Stock	GREASE-MOBIL SHC	RST/ Consumable	43.75	Kg	0.44
47	Rolling Stock	GREASE-LGEP2	RST/ Consumable	31.25	Kg	1.25
48	Rolling Stock	BRAKE PAD	RST/ Consumable	300	Set	15.00

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Sr. No	Department	Description of Item	Broad Specification Parameters	Quantity	Accounting Unit(Nos./Kilometers/ Tonnes)	Estimated value of Procurement in Lakhs (INR)
49	Rolling Stock	FINAL FILTER KIT	RST/ Consumable	63	Nos	1.26
50	Rolling Stock	AIR INTAKE FILTER	RST/ Consumable	63	Set	5.67
51	Rolling Stock	PRE-COALESER ELEMENT KIT	RST/ Consumable	63	Nos	6.30
52	Rolling Stock	DESICCANT CANISTER KIT	RST/ Consumable	63	Set	6.30
53	Rolling Stock	LED Light Strip	RST/ Consumable	125	Nos	1.25
54	Rolling Stock	CCD SHOE	RST/ Consumable	375	Nos	26.25
55	Rolling Stock	GEAR OIL- SHELL SPIRAX S6 AXME 75W-90	RST/ Consumable	340	Ltr	3.40
56	Rolling Stock	MAINTENANCE SPRAY 8511	RST/ Consumable	0.25	Ltr	0.03
57	Rolling Stock	CONTACTAL GREASE	RST/ Consumable	0.25	Kg	0.05
58	Signalling	RED aspect LED unit (and current regulator unit)	As per RDSO/SPN/199/2010 or latest	2	Nos.	0.17
59	Signalling	GREEN aspect LED unit (Retrofitted)	As per RDSO/SPN/199/2010 or latest	2	Nos.	0.20
60	Signalling	VIOLET aspect LED unit (and current regulator unit)	As per RDSO/SPN/199/2010 or latest	2	Nos.	0.20
61	Signalling	RI-LED aspect matrix	Confirming to RDSO/SPN/153/2011 or latest	2	Nos.	1.30
62	Signalling	MCCB 2A	MCCB 2A	2	Nos.	0.02
63	Signalling	RCCB 2A	RCCB 2A	2	Nos.	0.02
64	Signalling	IMD-DC	IMD-DC - 5TT3470	1	Nos.	0.03
65	Signalling	IMD-AC	IMD-AC- - 5TT3470	1	Nos.	0.03
66	Signalling	Indication LED-Input/Output point machine LED (415 VAC Teknic/Schiender Model2LHLR)	22mm diameter Model LHLR415AC Green code-1516 Product name-Harmony XB4 Green-XB4BV5B3	10	Nos.	0.04
67	Signalling	240V Indication LED	22mm diameter Model 3PLBRL240AC Green-code2316 Product name-Harmony XB7 Green-XB7EV03MP3	10	Nos.	0.04
68	Signalling	VAF meter	Type1 - For 3-phase 415V AC measurement Used in KVTR 100-500V VDC Voltmeter Input 3-phase 50Hz Au	6	Nos.	0.21
69	Signalling	30VDC PS LED (30 V DC POWERSUPPLY) GREEN	MAIN HOUSING : POLYCARBONATE LENS MATERIAL : ACRYLIC LENS COLOUR : GREEN POLYCARBO	3	Nos.	0.01
70	Signalling	24VDC PS LED (24 V DC POWERSUPPLY) GREEN	MAIN HOUSING : POLYCARBONATE LENS MATERIAL : ACRYLIC LENS COLOUR : GREEN POLYCARBO	3	Nos.	0.01
71	Signalling	30VDC PS LED (30 V DC POWERSUPPLY) RED	MAIN HOUSING : POLYCARBONATE LENS MATERIAL : ACRYLIC LENS COLOUR : RED POLYCARBONA	3	Nos.	0.01
72	Signalling	24VDC PS LED (24 V DC POWERSUPPLY) RED	MAIN HOUSING : POLYCARBONATE LENS MATERIAL : ACRYLIC LENS COLOUR : RED POLYCARBONA	3	Nos.	0.01
73	Signalling	PDC lighting (LED strips-230V compatible 5W)	(LED strips-230V compatible 5W)	3	Nos.	0.03
74	Signalling	Cache battery for server	3V Lithum button battery of dia 2cm	3	Nos.	0.30
75	Signalling	Server battery for server	7.2 V, 8.64Wh, 1250mAh Li-ion battery, part no 72760-002 for Hpe servers. Depending on server battery will di	4	Nos.	0.40
76	Signalling	hard Disk	HD 600GB SFF 2.5", 10K RPM	4	Nos.	0.54
77	Signalling	power supply		2	Nos.	0.20
78	Signalling	Storage controller	Smart Array P440ar/2GB FBWC 12Gb 2ports Int FIO SAS Controller NOTE : Specific for HP Servers	1	Nos.	0.15
79	Signalling	Fan unit for server	Internal fan units for HPE servers	2	Nos.	0.12
80	Signalling	1000 Base SFP M-SFP-LX/LC	1000 Base SFP M-SFP-LX/LC	10	Nos.	0.50
81	Signalling	100 Base SFP M-FAST SFP-SM/LC	100 Base SFP M-FAST SFP-SM/LC	20	Nos.	1.00
82	Signalling	SFP-1GLXLC-T V1.1 (Single-mode/ 1.25Gpbs/1310 nm)	SFP-1GLXLC-T V1.1 (Single-mode/ 1.25Gpbs/1310 nm)	10	Nos.	0.50
83	Signalling	SC/LC SINGE MODE 20M PATCH CHORD	SC/LC SINGE MODE 20M PATCH CHORD	40	Nos.	0.20
84	Signalling	LC/LC SINGLE MODE 5m patch chord	LC/LC SINGLE MODE 5m patch chord	6	Nos.	0.03
85	Signalling	Cooling fan	230v, 50hz 150mm fan for screw attachment please refer Image image 9	3	Nos.	0.15
<b>Financial Year 2022-23</b>						
1	Rolling Stock	External camera housing	For Rolling Stock (Train)	4	Nos	2.32
2	Rolling Stock	Cab Skirt	For Rolling Stock (Train)	2	Nos	0.08
3	Rolling Stock	Wiper Assy.	For Rolling Stock (Train)	2	Nos	1.24
4	Rolling Stock	Passenger Seats_Flip up	For Rolling Stock (Train)	2	Nos	0.18
5	Rolling Stock	Passenger Seats_7 seater	For Rolling Stock (Train)	8	Nos	2.48
6	Rolling Stock	Passenger Seats_4 seater	For Rolling Stock (Train)	1	Nos	0.25

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Sr. No	Department	Description of Item	Broad Specification Parameters	Quantity	Accounting Unit(Nos./Kilometers/Tonnes)	Estimated value of Procurement in Lakhs (INR)
7	Rolling Stock	Passenger Seats 2 seater	For Rolling Stock (Train)	3	Nos	0.36
8	Rolling Stock	Passenger Seats 2 seater with cushion	For Rolling Stock (Train)	2	Nos	0.28
9	Rolling Stock	Low Horn Switch	For Rolling Stock (Train)	2	Nos	0.50
10	Rolling Stock	High Horn Switch	For Rolling Stock (Train)	2	Nos	0.16
11	Rolling Stock	Sunvisors	For Rolling Stock (Train)	2	Nos	0.58
12	Rolling Stock	Strap hangers	For Rolling Stock (Train)	32	Nos	0.96
13	Rolling Stock	Auxilliary Fuse	For Rolling Stock (Train)	3	Nos	4.68
14	Rolling Stock	Internal LCD Display	For Rolling Stock (Train)	12	Nos	9.00
15	Rolling Stock	Equipment USB charging assembly with complete hardware interfaces	For Rolling Stock (Train)	36	Nos	7.92
16	Rolling Stock	Rubber Profile/Seal VAC unit roof	For Rolling Stock (Train)	20	Nos	7.20
17	Rolling Stock	DSD Buzzer	For Rolling Stock (Train)	1	Nos	0.03
18	Rolling Stock	EVIM Connector	For Rolling Stock (Train)	5	Nos	15.00
19	Rolling Stock	WFL Control unit(REBS)	For Rolling Stock (Train)	1	Nos	3.00
20	Rolling Stock	CCD Arm	For Rolling Stock (Train)	4	Nos	4.00
21	Rolling Stock	Drain hose flexible(VAC- car body) L420	For Rolling Stock (Train)	5	Nos	0.15
22	Rolling Stock	Drain hose flexible(VAC- car body) L450	For Rolling Stock (Train)	5	Nos	0.15
23	Rolling Stock	Head light LH	For Rolling Stock (Train)	1	Nos	0.12
24	Rolling Stock	Head light RH	For Rolling Stock (Train)	1	Nos	0.12
25	Rolling Stock	Flasher light	For Rolling Stock (Train)	1	Nos	0.25
26	Rolling Stock	Indication lamp (Push button)	For Rolling Stock (Train)	15	Nos	0.02
27	Rolling Stock	IP Switch	For Rolling Stock (Train)	6	Nos	8.04
28	Rolling Stock	Saloon light CVS DC/DC CONVERTER	For Rolling Stock (Train)	4	Nos	0.84
29	Rolling Stock	Spot light	For Rolling Stock (Train)	4	Nos	0.32
30	Rolling Stock	Windscreen	For Rolling Stock (Train)	1	Nos	0.78
31	Rolling Stock	Draught Screen (2 Types)	For Rolling Stock (Train)	5	Nos	1.35
32	Rolling Stock	Automatic drain device	For Rolling Stock (Train)	14	Nos	13.44
33	Rolling Stock	Air dryer (GW MODEL 975)	For Rolling Stock (Train)	7	Nos	12.46
34	Rolling Stock	Water separator	For Rolling Stock (Train)	7	Nos	3.57
35	Rolling Stock	Check valve 3/4"	For Rolling Stock (Train)	7	Nos	1.89
36	Rolling Stock	Encoder	RST/M&P/ ATWP	1 No	No	0.40
37	Rolling Stock	Tune up Kit	RST/M&P/ATWP/Reciprocating Compressor	1 No	Nos	0.20
38	Rolling Stock	Piston HP/ LP Assy.	RST/M&P/ATWP/Reciprocating Compressor	2 Nos	Nos	0.44
39	Rolling Stock	Hydraulic Trolley Assy.	RST/M&P/ Mobile Jack	1 No	No	0.43
40	Rolling Stock	WFL OIL RAIL LUB	RST/ Consumable	937.5	kg	18.75
41	Rolling Stock	WFL stick	RST/ Consumable	750	Nos	15.00
42	Rolling Stock	MOLYKOTE M33	RST/ Consumable	1.25	Kg	0.10
43	Rolling Stock	GREASE-MOBIL SHC	RST/ Consumable	43.75	Kg	0.44
44	Rolling Stock	GREASE-LGEP2	RST/ Consumable	31.25	Kg	1.25
45	Rolling Stock	BRAKE PAD	RST/ Consumable	300	Set	15.00
46	Rolling Stock	FINAL FILTER KIT	RST/ Consumable	62	Nos	1.24
47	Rolling Stock	AIR INTAKE FILTER	RST/ Consumable	62	Set	5.58
48	Rolling Stock	PRE-COALESER ELEMENT KIT	RST/ Consumable	62	Nos	6.20
49	Rolling Stock	DESICCANT CANISTER KIT	RST/ Consumable	62	Set	6.20
50	Rolling Stock	LED Light Strip	RST/ Consumable	125	Nos	1.25
51	Rolling Stock	CCD SHOE	RST/ Consumable	375	Nos	26.25

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Sr. No	Department	Description of Item	Broad Specification Parameters	Quantity	Accounting Unit(Nos./Kilometers/Tonnes)	Estimated value of Procurement in Lakhs (INR)
52	Rolling Stock	GEAR OIL- SHELL SPIRAX S6 AXME 75W-90	RST/ Consumable	340	Ltr	3.40
53	Rolling Stock	MAINTENANCE SPRAY 8511	RST/ Consumable	0.25	Ltr	0.03
54	Rolling Stock	CONTACTAL GREASE	RST/ Consumable	0.25	Kg	0.00
55	Signalling	RED aspect LED unit (and current regulator unit)	As per RDSO/SPN/199/2010 or latest	2	Nos.	0.17
56	Signalling	GREEN aspect LED unit (Retrofitted)	As per RDSO/SPN/199/2010 or latest	2	Nos.	0.20
57	Signalling	VIOLET aspect LED unit (and current regulator unit)	As per RDSO/SPN/199/2010 or latest	2	Nos.	0.20
58	Signalling	RI-LED aspect matrix	Confirming to RDSO/SPN/153/2011 or latest	2	Nos.	1.30
59	Signalling	Shunt Signal Aspect (with current regulator)	Confirming to latest RDSO spec.	10	Nos.	0.62
60	Signalling	Changeover switch	415V, 3pahse manual change over switch	2	Nos.	0.60
61	Signalling	Delta/Star Isolation transformer 6KVA	6 KVA Delta/star 3 phase isolation transformer	2	Nos.	0.50
62	Signalling	Delta/Star Isolation transformer 4KVA	4 KVA Delta/star 3 phase isolation transformer	2	Nos.	0.46
63	Signalling	Delta/Delta transformer 4KVA (point machine)	4 KVA Delta/Delta 3 phase isolation transformer	2	Nos.	0.46
64	Signalling	Delta/Star Isolation transformer 10KVA	Delta/Star Isolation transformer 10KVA	1	Nos.	0.35
65	Signalling	Delta/Star Isolation transformer 20KVA	Delta/Star Isolation transformer 20KVA	1	Nos.	0.70
66	Signalling	Step Down Transformer 230/110V 1KVA	Step Down Transformer 230/110V 1KVA	2	Nos.	0.20
67	Signalling	Step Down Transformer 230/110V 2KVA	Step Down Transformer 230/110V 2KVA	1	Nos.	0.15
68	Signalling	30V DC Power supply	30V DC Power supply, 10A, 20A	2	Nos.	0.40
69	Signalling	24V DC Power supply	24V DC Power supply, 50A, 120A	2	Nos.	0.83
70	Signalling	MCCB 2A	MCCB 2A	2	Nos.	0.02
71	Signalling	RCCB 2A	RCCB 2A	2	Nos.	0.02
72	Signalling	IMD-DC	IMD-DC - 5TT3470	1	Nos.	0.03
73	Signalling	IMD-AC	IMD-AC- - 5TT3470	1	Nos.	0.03
74	Signalling	Indication LED-Input/Output point machine LED (415 VAC Teknic/Schiender Model2LHLR)	22mm diameter Model LHLR415AC Green code-1516 Product name-Harmony XB4 Green-XB4BV5B3	10	Nos.	0.04
75	Signalling	240V Indication LED	22mm diameter Model 3PLBRL240AC Green-code2316 Product name-Harmony XB7 Green-XB7EV03MP3	10	Nos.	0.04
76	Signalling	VAF meter	Type1 - For 3-phase 415V AC measurement Used in KVTR 100-500V VDC Voltmeter Input 3-phase 50Hz Au	6	Nos.	0.21
77	Signalling	30VDC PS LED (30 V DC POWERSUPPLY) GREEN	MAIN HOUSING : POLYCARBONATE LENS MATERIAL : ACRYLIC LENS COLOUR : GREEN POLYCARBO	3	Nos.	0.01
78	Signalling	24VDC PS LED (24 V DC POWERSUPPLY) GREEN	MAIN HOUSING : POLYCARBONATE LENS MATERIAL : ACRYLIC LENS COLOUR : GREEN POLYCARBO	3	Nos.	0.01
79	Signalling	30VDC PS LED (30 V DC POWERSUPPLY) RED	MAIN HOUSING : POLYCARBONATE LENS MATERIAL : ACRYLIC LENS COLOUR : RED POLYCARBONA	3	Nos.	0.01
80	Signalling	24VDC PS LED (24 V DC POWERSUPPLY) RED	MAIN HOUSING : POLYCARBONATE LENS MATERIAL : ACRYLIC LENS COLOUR : RED POLYCARBONA	3	Nos.	0.01
81	Signalling	PDC lighting (LED strips-230V compatible 5W)	(LED strips-230V compatible 5W)	3	Nos.	0.03
82	Signalling	Keyboard-KU 1156 or equivalent	Keyboard-KU 1156 or equivalent	1	Nos.	0.45
83	Signalling	optical USB mouse.	optical USB mouse.	1	Nos.	0.45
84	Signalling	DL 380G9 Server	DL 380G9 Server or latest	1	Nos.	1.70
85	Signalling	Cache battery for server	3V Lithum button battery of dia 2cm	3	Nos.	0.30
86	Signalling	Server battery for server	7.2 V, 8.64Wh, 1250mAh Li-ion battery, part no 72760-002 for Hpe servers. Depending on server battery will di	5	Nos.	0.50
87	Signalling	hard Disk	HD 600GB SFF 2.5", 10K RPM	4	Nos.	0.54
88	Signalling	power supply		2	Nos.	0.20
89	Signalling	KVM drawer	8 port	1	Nos.	0.55
90	Signalling	KVM switch	8 port	1	Nos.	0.55
91	Signalling	Storage controller	Smart Array P440ar/2GB FBWC 12Gb 2ports Int FIO SAS Controller NOTE : Specific for HP Servers	1	Nos.	0.15
92	Signalling	Fan unit for server	Internal fan units for HPE servers	2	Nos.	0.12
93	Signalling	1000 Base SFP M-SFP-LX/LC	1000 Base SFP M-SFP-LX/LC	10	Nos.	0.50
94	Signalling	100 Base SFP M-FAST SFP-SM/LC	100 Base SFP M-FAST SFP-SM/LC	20	Nos.	1.00
95	Signalling	SFP-1GLXLC-T V1.1 (Single-mode/ 1.25Gpbs/1310 nm)	SFP-1GLXLC-T V1.1 (Single-mode/ 1.25Gpbs/1310 nm)	10	Nos.	0.50
96	Signalling	SC/LC SINGE MODE 20M PATCH CHORD	SC/LC SINGE MODE 20M PATCH CHORD	40	Nos.	0.20

**PROCUREMENT PROJECTION- FY 2020-21 TO FY 2024-25 (OPERATIONS & MAINTENANCE)**

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Sr. No	Department	Description of Item	Broad Specification Parameters	Quantity	Accounting Unit(Nos./Kilometers/Tonnes)	Estimated value of Procurement in Lakhs (INR)
97	Signalling	LC/LC SINGLE MODE 5m patch chord	LC/LC SINGLE MODE 5m patch chord	6	Nos.	0.03
98	Signalling	Cooling fan	230v, 50hz 150mm fan for screw attachment please refer Image image 9	3	Nos.	0.15
<b>Financial Year 2023-24</b>						
1	Rolling Stock	External camera housing	For Rolling Stock (Train)	1	Nos	0.58
2	Rolling Stock	Cab Skirt	For Rolling Stock (Train)	1	Nos	0.04
3	Rolling Stock	Wiper Assy.	For Rolling Stock (Train)	1	Nos	0.62
4	Rolling Stock	Passenger Seats Flip up	For Rolling Stock (Train)	1	Nos	0.09
5	Rolling Stock	Passenger Seats 7 seater	For Rolling Stock (Train)	3	Nos	0.93
6	Rolling Stock	Passenger Seats 2 seater	For Rolling Stock (Train)	1	Nos	0.12
7	Rolling Stock	Passenger Seats 2 seater with cushion	For Rolling Stock (Train)	1	Nos	0.14
8	Rolling Stock	Low Horn Switch	For Rolling Stock (Train)	1	Nos	0.25
9	Rolling Stock	High Horn Switch	For Rolling Stock (Train)	1	Nos	0.08
10	Rolling Stock	Sunvisors	For Rolling Stock (Train)	1	Nos	0.29
11	Rolling Stock	Strap hangers	For Rolling Stock (Train)	32	Nos	0.96
12	Rolling Stock	Auxilliary Fuse	For Rolling Stock (Train)	2	Nos	3.12
13	Rolling Stock	Internal LCD Display	For Rolling Stock (Train)	12	Nos	9.00
14	Rolling Stock	Equipment USB charging assembly with complete hardware interfaces	For Rolling Stock (Train)	36	Nos	7.92
15	Rolling Stock	Rubber Profile/Seal VAC unit roof	For Rolling Stock (Train)	18	Nos	6.48
16	Rolling Stock	DSD Buzzer	For Rolling Stock (Train)	1	Nos	0.03
17	Rolling Stock	EVIM Connector	For Rolling Stock (Train)	2	Nos	6.00
18	Rolling Stock	WFL Control unit(REBS)	For Rolling Stock (Train)	1	Nos	3.00
19	Rolling Stock	CCD Arm	For Rolling Stock (Train)	2	Nos	2.00
20	Rolling Stock	Drain hose flexible(VAC- car body) L420	For Rolling Stock (Train)	4	Nos	0.12
21	Rolling Stock	Drain hose flexible(VAC- car body) L450	For Rolling Stock (Train)	4	Nos	0.12
22	Rolling Stock	Head light LH	For Rolling Stock (Train)	1	Nos	0.12
23	Rolling Stock	Head light RH	For Rolling Stock (Train)	1	Nos	0.12
24	Rolling Stock	Flasher light	For Rolling Stock (Train)	1	Nos	0.25
25	Rolling Stock	Indication lamp (Push button)	For Rolling Stock (Train)	12	Nos	0.01
26	Rolling Stock	IP Switch	For Rolling Stock (Train)	5	Nos	6.70
27	Rolling Stock	Saloon light CVS DC/DC CONVERTER	For Rolling Stock (Train)	2	Nos	0.42
28	Rolling Stock	Spot light	For Rolling Stock (Train)	2	Nos	0.16
29	Rolling Stock	Windscreen	For Rolling Stock (Train)	1	Nos	0.78
30	Rolling Stock	Draught Screen (2 Types)	For Rolling Stock (Train)	4	Nos	1.08
31	Rolling Stock	Automatic drain device	For Rolling Stock (Train)	10	Nos	9.60
32	Rolling Stock	Air dryer (GW MODEL 975)	For Rolling Stock (Train)	6	Nos	10.68
33	Rolling Stock	Water separator	For Rolling Stock (Train)	6	Nos	3.06
34	Rolling Stock	Check valve 3/4"	For Rolling Stock (Train)	6	Nos	1.62
35	Rolling Stock	Photocell Transmitter	RST/M&P/ ATWP	2 Nos	Nos	0.40
36	Rolling Stock	Photocell receiver	RST/M&P/ ATWP	2 Nos	Nos	0.40
37	Rolling Stock	Safety Bumper Relays	RST/M&P/ ATWP	1 Set	Set	0.30
38	Rolling Stock	Switch gear(MCB, MPCB, etc.)	RST/M&P/ ATWP	1 Set	No Each	1.50
39	Rolling Stock	Tune up Kit	RST/M&P/ATWP/Reciprocating Compressor	1 No	Nos	0.20
40	Rolling Stock	ROLLER BEARING	RST/M&P/ BTT	4 Nos	Nos	0.22

**PROCUREMENT PROJECTION- FY 2020-21 TO FY 2024-25 (OPERATIONS & MAINTENANCE)**

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Sr. No	Department	Description of Item	Broad Specification Parameters	Quantity	Accounting Unit(Nos./Kilometers/Tonnes)	Estimated value of Procurement in Lakhs (INR)
41	Rolling Stock	WFL OIL_RAIL LUB	RST/ Consumable	937.5	kg	18.75
42	Rolling Stock	WFL stick	RST/ Consumable	750	Nos	15.00
43	Rolling Stock	MOLYKOTE M33	RST/ Consumable	1.25	Kg	0.10
44	Rolling Stock	GREASE-MOBIL SHC	RST/ Consumable	43.75	Kg	0.44
45	Rolling Stock	GREASE-LGEP2	RST/ Consumable	31.25	Kg	1.25
46	Rolling Stock	BRAKE PAD	RST/ Consumable	300	Set	15.00
47	Rolling Stock	FINAL FILTER KIT	RST/ Consumable	63	Nos	1.26
48	Rolling Stock	AIR INTAKE FILTER	RST/ Consumable	63	Set	5.67
49	Rolling Stock	PRE-COALESER ELEMENT KIT	RST/ Consumable	63	Nos	6.30
50	Rolling Stock	DESICCANT CANISTER KIT	RST/ Consumable	63	Set	6.30
51	Rolling Stock	LED Light Strip	RST/ Consumable	125	Nos	1.25
52	Rolling Stock	CCD SHOE	RST/ Consumable	375	Nos	36.25
53	Rolling Stock	GEAR OIL- SHELL SPIRAX S6 AXME 75W-90	RST/ Consumable	340	Ltr	3.40
54	Rolling Stock	MAINTENANCE SPRAY 8511	RST/ Consumable	0.25	Ltr	0.03
55	Rolling Stock	CONTACTAL GREASE	RST/ Consumable	0.25	Kg	0.05
56	Signalling	RED aspect LED unit (and current regulator unit)	As mention in Description	2	Nos.	0.34
57	Signalling	GREEN aspect LED unit (Retrofitted)	As mention in Description	2	Nos.	0.20
58	Signalling	VIOLET aspect LED unit (and current regulator unit)	As mention in Description	2	Nos.	0.20
59	Signalling	RI-LED aspect matrix	As mention in Description	2	Nos.	1.30
60	Signalling	Shunt Signal Aspect (with current regulator)	As mention in Description	10	Nos.	0.62
61	Signalling	Changeover switch	415V, 3pahse manual change over switch	2	Nos.	0.60
62	Signalling	Delta/Star Isolation transformer 6KVA	6 KVA Delta/star 3 phase isolation transformer	2	Nos.	0.50
63	Signalling	Delta/Star Isolation transformer 4KVA	4 KVA Delta/star 3 phase isolation transformer	2	Nos.	0.46
64	Signalling	Delta/Delta transformer 4KVA (point machine)	4 KVA Delta/Delta 3 phase isolation transformer	2	Nos.	0.46
65	Signalling	Delta/Star Isolation transformer 10KVA	Delta/Star Isolation transformer 10KVA	1	Nos.	0.35
66	Signalling	Delta/Star Isolation transformer 20KVA	Delta/Star Isolation transformer 20KVA	1	Nos.	0.70
67	Signalling	Step Down Transformer 230/110V 1KVA	Step Down Transformer 230/110V 1KVA	2	Nos.	0.20
68	Signalling	Step Down Transformer 230/110V 2KVA	Step Down Transformer 230/110V 2KVA	1	Nos.	0.15
69	Signalling	30V DC Power supply	30V DC Power supply, 10A, 20A	2	Nos.	0.40
70	Signalling	24V DC Power supply	24V DC Power supply, 50A, 120A	2	Nos.	0.83
71	Signalling	MCCB 2A	MCCB 2A	2	Nos.	0.02
72	Signalling	RCCB 2A	RCCB 2A	2	Nos.	0.02
73	Signalling	IMD-DC	IMD-DC - 5TT3470	1	Nos.	0.03
74	Signalling	IMD-AC	IMD-AC- - 5TT3470	1	Nos.	0.03
75	Signalling	Indication LED-Input/Output point machine LED (415 VAC Teknik/Schiender Model2LHLR)	22mm diameter Model LHLR415AC Green code-1516 Product name-Harmony XB4 Green-XB4BV5B3	10	Nos.	0.04
76	Signalling	240V Indication LED	22mm diameter Model 3PLBRL240AC Green-code2316 Product name-Harmony XB7 Green-XB7EV03MP3	15	Nos.	0.06
77	Signalling	30VDC PS LED (30 V DC POWERSUPPLY) GREEN	MAIN HOUSING : POLYCARBONATE LENS MATERIAL : ACRYLIC LENS COLOUR : GREEN POLYCARBO	3	Nos.	0.01
78	Signalling	24VDC PS LED (24 V DC POWERSUPPLY) GREEN	MAIN HOUSING : POLYCARBONATE LENS MATERIAL : ACRYLIC LENS COLOUR : GREEN POLYCARBO	3	Nos.	0.01
79	Signalling	30VDC PS LED (30 V DC POWERSUPPLY) RED	MAIN HOUSING : POLYCARBONATE LENS MATERIAL : ACRYLIC LENS COLOUR : RED POLYCARBONA	3	Nos.	0.01
80	Signalling	24VDC PS LED (24 V DC POWERSUPPLY) RED	MAIN HOUSING : POLYCARBONATE LENS MATERIAL : ACRYLIC LENS COLOUR : RED POLYCARBONA	3	Nos.	0.01
81	Signalling	PDC lighting (LED strips-230V compatible 5W)	(LED strips-230V compatible 5W)	3	Nos.	0.03
82	Signalling	Z420 workstation	Workstation HP-Z420	1	Nos.	0.45
83	Signalling	Z display 23" or equivalent	Z display 23" or equivalent	1	Nos.	0.45
84	Signalling	Keyboard-KU 1156 or equivalent	Keyboard-KU 1156 or equivalent	1	Nos.	0.45
85	Signalling	optical USB mouse.	optical USB mouse.	1	Nos.	0.45

**PROCUREMENT PROJECTION- FY 2020-21 TO FY 2024-25 (OPERATIONS & MAINTENANCE)**

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Sr. No	Department	Description of Item	Broad Specification Parameters	Quantity	Accounting Unit(Nos./Kilometers/Tonnes)	Estimated value of Procurement in Lakhs (INR)
86	Signalling	DL 380G9 Server	DL 380G9 Server or latest	1	Nos.	1.70
87	Signalling	Cache battery for server	3V Lithium button battery of dia 2cm	3	Nos.	0.30
88	Signalling	Server battery for server	7.2 V, 8.64Wh, 1250mAh Li-ion battery, part no 72760-002 for Hpe servers. Depending on server battery will di	6	Nos.	0.60
89	Signalling	hard Disk	HD 600GB SFF 2.5", 10K RPM	4	Nos.	0.54
90	Signalling	power supply	As mention in Description	2	Nos.	0.20
91	Signalling	router	router	1	Nos.	0.60
92	Signalling	KVM drawer	8 port	1	Nos.	0.55
93	Signalling	KVM switch	8 port	1	Nos.	0.55
94	Signalling	Storage controller	Smart Array P440ar/2GB FBWC 12Gb 2ports Int FIO SAS Controller NOTE : Specific for HP Servers	2	Nos.	0.30
95	Signalling	Fan unit for server	Internal fan units for HPE servers	2	Nos.	0.12
96	Signalling	L2 Switch(Layer 2 MAR 1030 Switch)	On its front panel the layer 2 switch provides system state indicator, port indicators, 28 mixed1000Base-Tx, 100	2	Nos.	7.00
97	Signalling	1000 Base SFP M-SFP-LX/LC	1000 Base SFP M-SFP-LX/LC	10	Nos.	0.50
98	Signalling	100 Base SFP M-FAST SFP-SM/LC	100 Base SFP M-FAST SFP-SM/LC	20	Nos.	1.00
99	Signalling	SFP-1GLXLC-T V1.1 (Single-mode/ 1.25Gpbs/1310 nm)	SFP-1GLXLC-T V1.1 (Single-mode/ 1.25Gpbs/1310 nm)	10	Nos.	0.50
100	Signalling	SC/LC SINGE MODE 20M PATCH CHORD	SC/LC SINGE MODE 20M PATCH CHORD	40	Nos.	0.20
101	Signalling	LC/LC SINGLE MODE 5m patch chord	LC/LC SINGLE MODE 5m patch chord	6	Nos.	0.03
102	Signalling	Cooling fan	230v, 50hz 150mm fan for screw attachment please refer Image image 9	3	Nos.	0.15

**Financial Year 2024-25**

1	Rolling Stock	External camera housing	For Rolling Stock (Train)	1	Nos	0.58
2	Rolling Stock	Passenger Seats_ 7 seater	For Rolling Stock (Train)	3	Nos	0.93
3	Rolling Stock	Passenger Seats_ 2 seater	For Rolling Stock (Train)	1	Nos	0.12
4	Rolling Stock	Strap hangers	For Rolling Stock (Train)	17	Nos	0.51
5	Rolling Stock	Auxilliary Fuse	For Rolling Stock (Train)	1	Nos	1.56
6	Rolling Stock	Internal LCD Display	For Rolling Stock (Train)	5	Nos	3.75
7	Rolling Stock	Equipment USB charging assembly with complete hardware interfaces	For Rolling Stock (Train)	28	Nos	6.16
8	Rolling Stock	Rubber Profile/Seal VAC unit roof	For Rolling Stock (Train)	12	Nos	4.32
9	Rolling Stock	DSD Buzzer	For Rolling Stock (Train)	1	Nos	0.03
10	Rolling Stock	EVIM Connector	For Rolling Stock (Train)	2	Nos	6.00
11	Rolling Stock	WFL Control unit(REBS)	For Rolling Stock (Train)	1	Nos	3.00
12	Rolling Stock	CCD Arm	For Rolling Stock (Train)	1	Nos	1.00
13	Rolling Stock	Drain hose flexible(VAC- car body) L420	For Rolling Stock (Train)	1	Nos	0.03
14	Rolling Stock	Drain hose flexible(VAC- car body) L450	For Rolling Stock (Train)	1	Nos	0.03
15	Rolling Stock	Head light LH	For Rolling Stock (Train)	1	Nos	0.12
16	Rolling Stock	Head light RH	For Rolling Stock (Train)	1	Nos	0.12
17	Rolling Stock	Flasher light	For Rolling Stock (Train)	1	Nos	0.25
18	Rolling Stock	Indication lamp (Push button)	For Rolling Stock (Train)	8	Nos	0.01
19	Rolling Stock	IP Switch	For Rolling Stock (Train)	3	Nos	4.02
20	Rolling Stock	Saloon light CVS DC/DC CONVERTER	For Rolling Stock (Train)	1	Nos	0.21
21	Rolling Stock	Spot light	For Rolling Stock (Train)	1	Nos	0.08
22	Rolling Stock	Windscreen	For Rolling Stock (Train)	1	Nos	0.78
23	Rolling Stock	Draught Screen (2 Types)	For Rolling Stock (Train)	1	Nos	0.27
24	Rolling Stock	Automatic drain device	For Rolling Stock (Train)	10	Nos	9.60
25	Rolling Stock	Air dryer (GW MODEL 975)	For Rolling Stock (Train)	3	Nos	5.34
26	Rolling Stock	Water separator	For Rolling Stock (Train)	3	Nos	1.53



**PROCUREMENT PROJECTION- FY 2020-21 TO FY 2024-25 (OPERATIONS & MAINTENANCE)**

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Sr. No	Department	Description of Item	Broad Specification Parameters	Quantity	Accounting Unit(Nos./Kilometers/ Tonnes)	Estimated value of Procurement in Lakhs (INR)
27	Rolling Stock	Check valve 3/4"	For Rolling Stock (Train)	3	Nos	0.81
28	Rolling Stock	Tune up Kit	RST/M&P/ATWP/Reciprocating Compressor	1 No	Nos	0.20
29	Rolling Stock	WFL OIL_RAIL LUB	RST/ Consumable	937.5	kg	18.75
30	Rolling Stock	WFL stick	RST/ Consumable	750	Nos	15.00
31	Rolling Stock	MOLYKOTE M33	RST/ Consumable	1.25	Kg	0.10
32	Rolling Stock	GREASE-MOBIL SHC	RST/ Consumable	43.75	Kg	0.44
33	Rolling Stock	GREASE-LGEP2	RST/ Consumable	31.25	Kg	1.25
34	Rolling Stock	BRAKE PAD	RST/ Consumable	300	Set	15.00
35	Rolling Stock	FINAL FILTER KIT	RST/ Consumable	62	Nos	1.24
36	Rolling Stock	AIR INTAKE FILTER	RST/ Consumable	62	Set	5.58
37	Rolling Stock	PRE-COALESER ELEMENT KIT	RST/ Consumable	62	Nos	6.20
38	Rolling Stock	DESICCANT CANISTER KIT	RST/ Consumable	62	Set	6.20
39	Rolling Stock	LED Light Strip	RST/ Consumable	125	Nos	1.25
40	Rolling Stock	CCD SHOE	RST/ Consumable	375	Nos	26.25
41	Rolling Stock	GEAR OIL- SHELL SPIRAX S6 AXME 75W-90	RST/ Consumable	340	Ltr	3.40
42	Rolling Stock	MAINTENANCE SPRAY 8511	RST/ Consumable	0.25	Ltr	0.03
43	Rolling Stock	CONTACTAL GREASE	RST/ Consumable	0.25	Kg	0.05
44	Signalling	IRS point machine 220mm throw, non trailable.	IRS 24 220mm throw non trailable point machine with claw lock and ground connections operate on 110 V DC	1	Nos.	1.96
45	Signalling	RED aspect LED unit (and current regulator unit)	As per RDSO/SPN/199/2010 or latest	3	Nos.	0.26
46	Signalling	GREEN aspect LED unit (Retrofitted)	As per RDSO/SPN/199/2010 or latest	3	Nos.	0.29
47	Signalling	VIOLET aspect LED unit (and current regulator unit)	As per RDSO/SPN/199/2010 or latest	3	Nos.	0.29
48	Signalling	RI-LED aspect matrix	Confirming to RDSO/SPN/153/2011 or latest	2	Nos.	1.30
49	Signalling	Shunt Signal Aspect (with current regulator)	Confirming to latest RDSO spec.	10	Nos.	0.62
50	Signalling	Changeover switch	415V, 3pahse manual change over switch	2	Nos.	0.60
51	Signalling	Delta/Star Isolation transformer 6KVA	6 KVA Delta/star 3 phase isolation transformer	2	Nos.	0.50
52	Signalling	Delta/Star Isolation transformer 4KVA	4 KVA Delta/star 3 phase isolation transformer	2	Nos.	0.46
53	Signalling	Delta/Delta transformer 4KVA (point machine)	4 KVA Delta/Delta 3 phase isolation transformer	2	Nos.	0.46
54	Signalling	Delta/Star Isolation transformer 10KVA	Delta/Star Isolation transformer 10KVA	1	Nos.	0.35
55	Signalling	Delta/Star Isolation transformer 20KVA	Delta/Star Isolation transformer 20KVA	1	Nos.	0.70
56	Signalling	Step Down Transformer 230/110V 1KVA	Step Down Transformer 230/110V 1KVA	2	Nos.	0.20
57	Signalling	Step Down Transformer 230/110V 2KVA	Step Down Transformer 230/110V 2KVA	1	Nos.	0.15
58	Signalling	30V DC Power supply	30V DC Power supply, 10A, 20A	2	Nos.	0.40
59	Signalling	24V DC Power supply	24V DC Power supply, 50A, 120A	2	Nos.	0.83
60	Signalling	MCCB 2A	MCCB 2A	2	Nos.	0.02
61	Signalling	RCCB 2A	RCCB 2A	2	Nos.	0.02
62	Signalling	IMD-DC	IMD-DC - 5TT3470	2	Nos.	0.07
63	Signalling	IMD-AC	IMD-AC- - 5TT3470	2	Nos.	0.07
64	Signalling	Indication LED-Input/Output point machine LED (415 VAC Teknic/Schiender Model2LHLR)	22mm diameter Model LHLR415AC Green code-1516 Product name-Harmony XB4 Green-XB4BV5B3	10	Nos.	0.04
65	Signalling	240V Indication LED	22mm diameter Model 3PLBRL240AC Green-code2316 Product name-Harmony XB7 Green-XB7EV03MP3	15	Nos.	0.06
66	Signalling	30VDC PS LED (30 V DC POWERSUPPLY) GREEN	MAIN HOUSING : POLYCARBONATE LENS MATERIAL : ACRYLIC LENS COLOUR : GREEN POLYCARBONATE	3	Nos.	0.01
67	Signalling	24VDC PS LED (24 V DC POWERSUPPLY) GREEN	MAIN HOUSING : POLYCARBONATE LENS MATERIAL : ACRYLIC LENS COLOUR : GREEN POLYCARBONATE	3	Nos.	0.01
68	Signalling	30VDC PS LED (30 V DC POWERSUPPLY) RED	MAIN HOUSING : POLYCARBONATE LENS MATERIAL : ACRYLIC LENS COLOUR : RED POLYCARBONATE	3	Nos.	0.01
69	Signalling	24VDC PS LED (24 V DC POWERSUPPLY) RED	MAIN HOUSING : POLYCARBONATE LENS MATERIAL : ACRYLIC LENS COLOUR : RED POLYCARBONATE	3	Nos.	0.01
70	Signalling	PDC lighting (LED strips-230V compatible 5W)	(LED strips-230V compatible 5W)	6	Nos.	0.06
71	Signalling	Z420 workstation	Workstation HP-Z420	2	Nos.	0.90

**PROCUREMENT PROJECTION- FY 2020-21 TO FY 2024-25 (OPERATIONS & MAINTENANCE)**

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Sr. No	Department	Description of Item	Broad Specification Parameters	Quantity	Accounting Unit(Nos./Kilometers/Tonnes)	Estimated value of Procurement in Lakhs (INR)
72	Signalling	Z display 23" or equivalent	Z display 23" or equivalent	2	Nos.	0.90
73	Signalling	Keyboard-KU 1156 or equivalent	Keyboard-KU 1156 or equivalent	1	Nos.	0.45
74	Signalling	optical USB mouse.	optical USB mouse.	1	Nos.	0.45
75	Signalling	DL 380G9 Server	DL 380G9 Server or latest	1	Nos.	1.70
76	Signalling	Cache battery for server	3V Lithum button battery of dia 2cm	3	Nos.	0.30
77	Signalling	Server battery for server	7.2 V, 8.64Wh, 1250mAh Li-ion battery, part no 72760-002 for Hpe servers. Depending on server battery will dif	6	Nos.	0.60
78	Signalling	router	router	1	Nos.	0.60
79	Signalling	Switch JD375A(48 port)	As mention in Description	1	Nos.	3.10
80	Signalling	Switch JD377A(24 port)	As mention in Description	1	Nos.	0.35
81	Signalling	Firewall	As mention in Description	1	Nos.	1.50
82	Signalling	Storage controller	Smart Array P440ar/2GB FBWC 12Gb 2ports Int FIO SAS Controller NOTE : Specific for HP Servers	2	Nos.	0.30
83	Signalling	Fan unit for server	Internal fan units for HPE servers	3	Nos.	0.18
84	Signalling	L2 Switch(Layer 2 MAR 1030 Switch)	On its front panel the layer 2 switch provides system state indicator, port indicators, 28 mixed1000Base-Tx, 100	2	Nos.	7.00
85	Signalling	L3 Switch-(Layer 3 MAR 1040 Switch)	layer 3 switch provides 16 fixed Gigabit Ethernet combo port. Ports shall be in autonegotiation mode 100/1000	1	Nos.	3.50
86	Signalling	Layer 2 switch IKS-G6524	on front panel the layer 2 switch provides system state indicator, port indicators, 28 mixed1000/100 Base-TxRJ	1	Nos.	3.50
87	Signalling	Layer 3 switch Moxa ICS-G7828A	on its front panel the layer 3 switch provides 28 fixed Gigabit Ethernet combo port. Ports shall be in auto-negoti	1	Nos.	3.50
88	Signalling	1000 Base SFP M-SFP-LX/LC	1000 Base SFP M-SFP-LX/LC	10	Nos.	0.50
89	Signalling	100 Base SFP M-FAST SFP-SM/LC	100 Base SFP M-FAST SFP-SM/LC	20	Nos.	1.00
90	Signalling	SFP-1GLXLC-T V1.1 (Single-mode/ 1.25Gpbs/1310 nm)	SFP-1GLXLC-T V1.1 (Single-mode/ 1.25Gpbs/1310 nm)	10	Nos.	0.50
91	Signalling	SC/LC SINGE MODE 20M PATCH CHORD	SC/LC SINGE MODE 20M PATCH CHORD	40	Nos.	0.20
92	Signalling	LC/LC SINGLE MODE 5m patch chord	LC/LC SINGLE MODE 5m patch chord	6	Nos.	0.03
93	Signalling	Cooling fan	230v, 50hz 150mm fan for screw attachment please refer Image image 9	3	Nos.	0.15