

Chennai Metro Rail Limited					
Procurement Projection for Next 5 years of Various Departments of CMRL					
Financial Year 2020-21					
Sr. No.	Description of Item	Broad Specification Parameters	Qty	Accounting Units	Estimated Value of Procurement INR (Lakhs)
VAC, TVS and associated Electrical & SCADA system					
NIL					
OHE & Traction					
NIL					
Rolling Stock - Project Phase 2					
1	3 Car Rolling stock for Priority corridor section of Corridor 3 and Corridor 5	3 coach trains with 67% traction were proposed in DPR for operation in elevated and UG sections of all three cordiors of CMRL phase 2 and operated with 25 KV power supply. These coaches shall be procured with JICA tied loan. Predominantly shall be operated in Corridor 3 and corridor 5.	210	Cars	228060
Lift & Escalator					
NIL					
Civil					
1	FE500D, 8 to 32mm dia		1,31,736	MT	59,281
2	Structural Steel		31,412	MT	15,706
3	1080 HH rails		NIL	MT	
4	880 HH rails		NIL	MT	
Financial Year 2021-22					
Sr. No.	Description of Item	Broad Specification Parameters	Qty	Accounting Units	Estimated Value of Procurement INR (Lakhs)
VAC, TVS and associated Electrical & SCADA system					
NIL					
OHE & Traction					
NIL					
Rolling Stock - Project Phase 2					
1	3 Car Rolling stock for Priority corridor section of Corridor 3 and Corridor 5	3 coach trains with 67% traction were proposed in DPR for operation in elevated and UG sections of all three cordiors of CMRL phase 2 and operated with 25 KV power supply. These coaches shall be procured in Internaltional Competitive Bidding. Predominantly shall be operated in COrridor 4	78	Cars	62400
Lift & Escalator					
NIL					
Civil					
1	FE500D, 8 to 32mm dia		1,53,178	MT	68,930
2	Structural Steel		26,774	MT	13,387
3	1080 HH rails		13000	MT	10,929
4	880 HH rails		2000	MT	1,656

Financial Year 2022-23

VAC, TVS and associated Electrical & SCADA system

Sr. No.	Description of Item	Broad Specification Parameters	Qty	Accounting Units	Estimated Value of Procurement INR (Lakhs)
1	Tunnel Ventilation Fans & Motors	High temperature rated tunnel ventilation fans of 60-120 CMS capacity with class H motor	92	Numbers	4,915
2	TVS Damper	UL certified heavy duty SS 316 fire rated life safety dampers of 4mx5m size	874	Numbers	13,553
3	OTE Back Plate Damper	Galvanised steel Back plate Damper	4416	Numbers	235
4	Sound Attenuator	Heavy duty fabricated SS 306 - 4mx4m size with rockwool/fiber glass filling	184	Numbers	4,282
5	Louvers	Aluminium extruded external Louver with SS bird screen	2760	Square meters	1,423
6	TVS Nozzle	Heavy duty SS 316 nozzle	184	Numbers	4,600
7	TVS cones	4mm thick MS cones with spray galvanization	184	Lot	6,937
8	Air handling units	AHU Capacity - 65 TR to 110 TR, Motor rating - 22KW to 30KW	138	Numbers	2,020
9	VRF indoor Units	11.2 KW (3.98 TR)to 28.0 KW (7.98 TR)	460	Numbers	1,059
10	VRF outdoor Units	10 HP (8 TR) to 52 HP (41.6 TR)	506	Numbers	4,628
11	EEV and communication Kit	EEV and communication Kit	138	Lot	445
12	Communication Cable	2C x 1.5 sqm	66010	Meters	214
13	Refnets	Copper Joints & Headers as per OEM recommendation	2668	Numbers	235
14	Remotes	Corded Remote	460	Numbers	47
15	VRF Controller	Central Controller	46	Lot	128
16	Refrigerant Leak Detection System	Refrigerant Leak Detection System	46	Lot	1,610
17	VAC Fans with motor (Normal)	Air Flow - 5000 to 8000 L/s with Class F insulation motor	460	Numbers	1,248
18	Smoke Exhaust Fans	Fire rated fans Air Flow - 30000 L/s with Class H insulation motor	92	Numbers	1,154
19	Duct (Normal Application)	Normal GI Duct - 0.6 to 1.2 mm thick Galvanised steel sheet with 275 GSM	67620	Square meters	821
20	Duct (Fire rated)	Fire rated Duct - 0.8 to 1.2 mm thick Galvanised steel sheet with 275 GSM, fire painting and rock wool insualtion (50 mm thick and 105 Kg/m ³)	192050	Square meters	6,769
21	Air Curtain	1.0 to 2.1 m Length GSS body, ABS blower and EC / BLdC motor	368	Numbers	70
22	Sound Attenuator	Rectangular Type, Heavy duty GSS with rockwool/fiber glass filling	414	Numbers	348
23	Dampers	VCD, High temp VCD, Pressure relief damper and non return dampers	2990	Square meters	384
24	Life saftey Dampers	UL certified heavy duty GSS fire rated life safety dampers	1702	Square meters	472
25	Louvers	Aluminium extruded external Louver with SS bird screen	1058	Square meters	160
26	Copper pipe and fittings	Copper tubes with C12200 (DHP) dia from 6.4 mm to 41.3 mm OD as per ASTM B280-16	132250	Meters	1,743
27	Copper tube Insulation	Nitrile rubber insualtion with 32mm & 13mm thickness	132250	Meters	121
28	Duct Insulation	50mm thick and 30 kg/m ³ fiber glass insualtion	66700	Square meters	389
OHE & Traction					
1	OHE Masts (Steel)	IS 2062 E 350 (Fe 490)	3618.82	Metric Tonne	2171.292
2	Transformers	IEC76, IEC 137, IEC 296, EN50329 etc.	85	Nos.	
3	Contact Wire	RDSO Spec No ETI/OHE/76(6/97) with A C With correction Slip.	100	km length	
4	Catenary Wire	Relevant RDSO Standards	100	km length	

Rolling Stock - Project Phase 2					
3	3 Car Rolling stock for balance section of Corridor 5 and corridor 3	3 coach trains with 67% traction were proposed in DPR for operation in elevated and UG sections of all three corridors of CMRL phase 2 and operated with 25 KV power supply. These coaches shall be procured with leasing option for this section.	126 cars	126 cars	0 (due to leasing)
Lift & Escalator					
1	Lift		240	Numbers	9600
2	Escalator		240	Numbers	18720
Civil					
1	FE500D, 8 to 32mm dia		1,24,072	MT	55,832
2	Structural Steel		11,061	MT	5,530
3	1080 HH rails		16500	MT	
4	880 HH rails		2500	MT	
Financial Year 2023-24					
VAC, TVS and associated Electrical & SCADA system					
Sr. No.	Description of Item	Broad Specification Parameters	Qty	Accounting Units	Estimated Value of Procurement INR (Lakhs)
1	VAC panels including VFD	2 mm thick CRCA sheet Form 4B, Type 6 (Connected load of 10KW to 600KW with incoming and outgoing feeders)	460	Numbers	3,183
2	TVS Panel including VFD	2 mm thick CRCA sheet Form 4B, Type 6 (Total Connected Load 25KW to 590KW with incoming and outgoing feeders)	92	Numbers	3,598
3	LT cables	Fire Survival (FS) as per BS 7846 from 3C x 2.5 Sq.mm to 3C x 300 Sq.mm 4C x 185 sqmm and 4C x 240 sqmm	233496	Meters	2,911
4	END TERMINATION	3C x 2.5 Sq.mm to 3C x 300 Sq.mm, 4C x 185 sqmm and 4C x 240 sqmm	9844	Numbers	111
5	CABLE TRAY & EARTH STRIP	100 to 6000 mm wide x 50 mm deep x 2 mm thick Hot dip galvanised tray	138828	Meters	289
6	SCADA Work Station & server	Stand alone commercial grade Desktop 32Inch, features Intel core i7 Processor with 3.0 GHZ or higher, 6 GB RAM or above, 1 TB SATA HDD, Integrated Sound & Graphics Media Accelerator, optical scroll mouse , multimedia keyboard ,52x CD Read / Write, Dual LAN card, 2 Serial port, 1 parallel port, 4 USB Ports, Windows 7 or above 64 bit Desktop with standard MS Office package & along with latest antivirus version suitable for operation on 230 volts A/C. 50 Hz, Graphic adaptor cards , Two speakers for audible alarms with configurable tones, Dual 10/100/1000Mbps Ethernet ports.	736	Numbers	1,052
7	TVS SIL 3 PLC with SIL-2 RIO ,NON SIL RIO for ECS and E&M RIO , and related components - (As per IO summary)	SIL - 3 PLC WITH CPU , SIL-2 RIO for TVS for interface with all Remote I/O Modules	184	Numbers	5,296
8	Control and communication Cable's	1 Pair Cable * 1.0 SQ.mm to 4 Pair Cable * 1.0 SQ.mm and 2 Core Cable * 1.0 SQ.mm to 22 Core Cable * 1.0 SQ.mm	1481200	Meters	1,994
OHE & Traction					
1	OHE Masts (Steel)	IS 2062 E 350 (Fe 490)	3618.82	Metric Tonne	2171.292

2	Transformers	IEC76, IEC 137, IEC 296, EN50329 etc.	85	Nos.	
3	Contact Wire	RDSO Spec No ETI/OHE/76(6/97) with A C With correction Slip.	100	km length	
4	Catenary Wire	Relevant RDSO Standards	100	km length	
Rolling Stock - Project Phase 2					
NIL					
Lift & Escalator					
1	Lift		240	Numbers	9600
2	Escalator		240	Numbers	18720
Civil					
1	FE500D, 8 to 32mm dia		88,530	MT	
2	Structural Steel		9,468	MT	
3	1080 HH rails		NIL	MT	
4	880 HH rails		NIL	MT	
Financial Year 2024-25					
VAC, TVS and associated Electrical & SCADA system					
NIL					
OHE & Traction					
1	OHE Masts (Steel)	IS 2062 E 350 (Fe 490)	3618.82	Metric Tonne	2171.292
2	Transformers	IEC76, IEC 137, IEC 296, EN50329 etc.	85	Nos.	
3	Contact Wire	RDSO Spec No ETI/OHE/76(6/97) with A C With correction Slip.	100	km length	
4	Catenary Wire	Relevant RDSO Standards	100	km length	
NIL					
Rolling Stock - Project Phase 2					
NIL					
Lift & Escalator					
NIL					
Civil					
1	FE500D, 8 to 32mm dia		57,598	MT	
2	Structural Steel		763	MT	
3	1080 HH rails		NIL	MT	
4	880 HH rails		NIL	MT	