

Amravati Zone

Sr. No.	Particulars	Vol level	2022-23	2023-24	2024 - 25	2025-26	2026-27
A-1	Substation (9)	220 kV	220/132 kV Warud, District Amravati (WIP)		220/132/33kV Lonar , District-Buldhana (BR sanctioned)		400kV NandgaonPeth (2x500MVA ICT) (New)
			220/132kV Pandharkawda, District-Yavatmal (WIP)				
		132 kV		132/33 kV Karajgaon, District Amravati (BR sanctioned)	132/33 kV Karanja (Ramzanpur), / Wadai Satvai District -Akola		
			132kV Nandura Dist.Buldhana (New)	132/33 kV Babhulgaon , District- Yavatmal (BR sanctioned)	132/33 kV Mukutban, District-Yavatmal (BR sanctioned)		
A-2	Associated Lines	220kV	220 kV Kalmeshwar - Warud DC Line-- 171.27 ckm for Warud ss (Spillover)		220 kV Malegaon - Lonar DC line - 72 km		LILO on 400kV Koradi-M/s RIPL Nandgaonpeth SC/SC-5 km
			220 kV Wani – Pandharkawada D/C Line - 60 kms(Spillover)				220kV DC Nandgaonpeth-Nandgaonpeth -1 km
		132kV		LILO on 132 kV Chandur Bazar - Achalpur line at Karajgaon - 16kms	LILO on 132 kV Malegaon - Mehekar SCDC Line at Lonar- 38km	LILO on one ckt of 132 kV DCDC line from Pandharkwda - Mukutban TSS at Mukutban - 6 km	220kV line from 400kV Nandgapeth-Anjangaon -60km
				LILO on 132kV Khamgaon-Malkapur line at Nandura - 3 km	LILO on one ckt of 132 kV Dusarbid - Mantha line at Lonar- 18km		220kV line from 400kV Nandgapeth-Warud -60km
					132 kV SCDC line from Lonar - Risod- 32 km		
					132 kV D/C line from 220 kV Balapur – Karanja - 25 kms		
					132 kV DC line from 220 kV Dhamangaon to 132 kV Babhulgaon – 27 kms		
B	Link Lines	220 kV	220kV line from Wardha PG to Yavatmal LILO Point -25km (Part A)		220 kV Yavatmal LILO pt -Ghatodi DC line (Balance work of Deoli-Ghatodi) - 116 km (Part B)		
		132 kV			LILO 132KV Nagewadi -Jafrabad - S/c at 132KV Deoulgaonraja - 16km		

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C-1	2nd ckt stringing	220 kV			Badnera-Ner - 43 km		
		132 kV	Malegaon - Mehekar- 44km	Nepanagar(Pipalpani) - Dharni-60km			
			Durgwada-Anjangaon-35km (Commissioned)				
			Washim - Jambazar -41 km				
C-3	High ampacity cond	132 kV	132 kV Malegaon (Zodga)-Malegaon DC line - 10km (RE)	132 kV SC line from 220 kV Warud to 132 kV Warud s/s -36km (RE)			
			132 kV Ghatodi-Pusad SC line -21 km (RE)	132 kV Nandgaonpeth-Amravati SC line-40 km (RE)			
D-1	Creation of New Level	220 kV			Dhamangaon (2X100)MVA 220/132kV		
					Warud (2X25)MVA 220/33kV		
D-2	ICT - Addition	400 kV	Akola (3x167) MVA 400/220kV (3rd ICT) (WIP)				
			Balapur (1x100)MVA 220/132 kV (Commissioned)	Malkapur (1x100)MVA 220/132kV ICT (RE)	Nandgaon Peth 2nd ICT (1x100)MVA 220/132kV		
		220 kV	Anjangaon (1x100)MVA 220/132kV (WIP)				
			Malegaon (1x100)MVA 220/132kV (WIP)				
D-3	ICT - Replacement	400 kV					
		220 kV					
D-4	Transformers - Addition	132 kV		Ner (1x50)MVA 220/33kV TF (RE)	Karanaja (1X25)MVA 132/33kV		
				Risod (1X25)MVA 132/33kV (WIP)	Dusarbid (1X25)MVA 132/33 kV		
				Umerkhed (1X25)MVA 132/33kV	Buldhana (1X25)MVA 132/33kV		
				Washim(1X25)MVA 132/33kV (WIP)			
				Motala (1X25)MVA 132/33kV			
D-5	Transformers - Replacement	220 kV					
		132 kV	Gunj 2X(50-25)MVA132/33kV (1x50MVA Commissioned)	Pandharkawda 1X(50-25)MVA 132/33 kV	Pandharkawda 1X(50-25)MVA 132/33 kV		
		132 kV	Chandur Bazar 2X (50-25) MVA 132/33kV(1x50MVA Commissioned)				
E-1	Reactor - New	400 kV	Akola 1 X125 MVAR (WIP)				
E-2	Reactor-Shifting	400 kV					
	Capacitor	33 kV	14 No's S/S - 130 MVAR	12 No's S/S- 95MVAR			

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Sr No	Particulars	Vol. level	2022-23	2023-24	2024-25	2025-26	2026-27	
A 1	Substation (15)	220 kV	220/132 kV Kurunda, District-Hingoli (Commissioned on 22.11.2022)	132kV Switching Station Narsi (New)	220/33 kV Bidkin DMIC, GIS District-Aurangabad	220/33kV Sarul (BR Sanctioned) (New) (MSEDCL/RE)	132/33kV Ladzari (MSEDCL/RE)	
			220/33 kV Shendra DMIC, GIS District-Aurangabad (WIP)		132/33kV Ida Jawala Dist-Osmanabad (BR Sanctioned) (NEW)	132/33kV Talegaon Dist-Latur (New) (MSEDCL/RE)	132/33kV Washi	
		132 kV		132/33 kV Tirthapuri, District-Jalna (WIP)	132/33kV Samudral Substation, Dist-Osmanabad (BR Sanctioned) (New)			132/33kV Selu
			132/3 kV Utwad, District-Jalna (WIP)	132/33 kV Mahur, District-Nanded (BR Sanctioned)	132/33kV Barashiv (Hanuman Nagar/Aundha) District- Hingoli (MSEDCL Demand received) on			
A2	Associate d Lines	220 kV	220 kV DC line from 400 kV Nanded (Kumbhargaon) to Kurunda - 50 kms		LILO of 220 kV Chitepimpalgaon - Chitegaon @Bidkin DMIC - 5 kms	LILO on 220kV Beed-Manjarsumbha line -20km with HTLS for Sarul S/s	132kV DC line from Parli GCR-20km	
				132 kV DC line from 220 kV Krishnoor to Narsi Switching S/s			132kV DC line from Partur to Selu- 20km	
			LILO on one circuit of 220 kV DC line from 400 kV Aurangabad (PG) – Shendra at 220kV Shendra (AURIC) (DMIC Project) – 8 Km	LILO on 132kV Mukhed-Kundalwadi @ Narsi Switching S/S			132kV DC line from 132kV Bhoom to Washi S/S- 20km	
				LILO of one ckt of 132 kV existing Narsi - Degloor @ Narsi Switching S/s				
		132 kV	LILO of 132 kV Jalna Old (Kanhaiyanagar) - Partur line at Utwad S/s - 5km	LILO on 2 nd ckt of 132kV Ambad-Ghansawngi S/C line at 132kV Tirthpuri- 8 km	LILO of 132kV Killari-Narangwadi line at Samudral S/S - 5km	LILO on 132kV Jagruti sugar-Udgir line at Talegaon S/S -8km		
				132 kV Gunj - Mahur SCDC line - 25 kms	LILO of 132kV Bhoom-Paranda line at Ida Jawla S/S - 2km			
			LILO of 132 kV Kurunda - Hingoli line at Barashiv S/s- 20km					
B	Link Lines	400 kV	Bhusawal-II - Waluj at Tapthitanda -177km (Blance work of 400kV Thapati Tanda)					
		220 kV	220kV Nagewadi - Bhokardan DC- 50 km (WIP)	220 kv Interconnection between 220kV Murud -Tuljapur and Barshi Osmanabad (0.5 km)	220 kV Jeur - Paranda DC line (GEC)- 35km	220 kV Patoda-Sonewadi DC link - 80 ckm	220kV Georai-Partur DC line -80km	
			LILO on one circuit of Chikhali - Jalna line at 220 kV Nagewadi – 30 ckt kms (Remaining scope of Nagewadi Work)					
		132 kV	Kharda - Ashti (GEC) DC- 45 km	Georai - Rajpimprie LILO at 220 kV Georai S/s - 5 kms	Patoda - Raimoha SCDC (GEC)- 30km			
			LILO on 132 kV Chakur - Ahmedpur SCDC line at 220 kV Jalkot – 25 kms (Commissioned on 31.10.2022)	Interconnection Between 132 KV Hingoli Sengaon CKT-1 & 132 KV Yeldari Risod (13 km) (Capex ?)	Kharda - Ashti at Patoda (GEC)- 30km			
Ambad – Ghansawangi at Partur -30 km	132kV SCDC Line from 220kV Deogaon Rangari-Kannad - 30km		132kV SCDC line from 220kV Deogaonrangari-Vaijapur -35km					

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			132kV Majalgaon – Pathri - SCDC 35 ckm (WIP)	LILO on 132kV Chittegaon-Deolai(Satara)-line at 220kV Shendra - 10km			
			Reorientation of 132kV Jalna(220kV)- Ambad line to 220kV Nagewadi substation				
C-1	2nd ckt stringing	220 kV					Ghatodi - Hingoli-86km
		132 kV	Himayat nagar - Kinwat.- 51 km	Parbhani - Pathri- 48km			
			Ambad – Ghansawangi -25km	132kV Jalkot-Udgir	SAT - Gangapur-27km		
			Bhokardan - Jafrabad -29km	132kV Nilanga-Omerga	Telgaon - Majalgaon- 21km		
			Bhokardhan - Rajur- 26km	132kV Kharda-Bhairvnath (RE)	Georai - Mahakala- 22km		
	High ampacity	400kV		400kV Parli(M)-Parli PG			
				Beed-Patoda-Manjarsumbha - 45km (RE)			
				Beed-Patoda -35km (RE)			
C-2		132 kV	132kV Jalna MIDC-Jalna line (via Rajur ckt-II)	Shendra - Chikalthana -12km			
			132kV Nagewadi to 132kV Jalna MIDC				
		132kV Pathardi-Raimoha (RE)					
		132kV Partur to Partur DC line (RE)	Latur - Ujani - Naldurg - Solapur DC line renovation using 0.2 ACSR Conductor -115km				
D-1	Creation of New Level	220 kV	Shendra (2X100)MVA 220/132 kV (WIP)	Padegaon (2X50)MVA 220/33kV	Shendra DMIC (2X100)MVA 220/132kV		
				Patoda (2X100)MVA 220/132kV			
		132 kV	Jalkot (1X25)MVA 220/132/33 kV (WIP)	Krishnoor(1X100)MVA 220/132kV			400kV Waluj S/s (New Scheme) 2x100 MVA , 220/132kV
D-2	ICT - Addition	765kV			1x1500MVA ,765/400kV Ektuni		
		400 kV		Thaptitanda (3X 167)MVA 400/220kV	Kumbhargaon (3X167)MVA 400/220kV		
						Paranda(1X100)MVA 220/132kV	
		220 kV		Jalkot(1x100)MVA 220/132kV (RE)	Tuljapur (1x100)MVA220/132kV		
	Narangwadi (1 x 100 MVA), 220/132 kV (RE)						
D-3	ICT - Replacement						

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D-4	Transformers - Addition	400 kV		Waluj (1 X 50)MVA 220/33kV (WIP)		
		220kV				
				Harshul (1X50)MVA 132/33 kV		
				Deolai (1X50)MVA 132/33kV	Jafrabad (1X25)MVA 132/33kV	
				Nilanga (1X50)MVA 132/33kV	1x25 MVA 132/33kV TF at 132 kV Degloor	
				1x50 MVA, 132/33kV TF at 132kV Jalna MIDC	1x25 MVA 132/33kV TF at 132 kV Kallamb	
				50MVA 132/33kV TF at 132kV Ashti S/s	1x50 MVA 132/33kV TF at 132 kV Georai	
					132/33kV 50MVA TF at 132kV Paithan S/s	
				1x50 MVA 132/33kV TF at 132kV Chikalthana S/s	1x25 MVA 132/33kV TF at 132 kV Kinwat	
				of 1x50 MVA, 132/33kV TF at 132kV Jintur S/s	1x25 MVA 132/33kV TF at 132 kV Himayatnagar	
				1x25 MVA, 132/33kV TF at 132kV Purna		
		Vaijapur (1X50)MVA 132/33 kV				
D-5	Transformers - Replacement	220 kV		Jalna 2X(100-50)MVA 220/33-33KV		
				2x(50-25)MVA 220/33kV TF at 220kV Bhokardan S/s	2x(50-25) MVA 220/33kV TF, Bhokar	
				Udgir 1X(50-25)MVA 132/33kV		
		132 kV		2x(50-25) MVA, 132/33kV TF at 132kV Ghansawangi S/s	2 X (50-25) MVA 132/33 kV,TF at 132 kV Mukhed	
E-1	Reactor - New		5x50MVAR, Line Reactors at 400kV Girwali Substation	1X125 MVAR at Thaptitanda		
			1x125MVAR 400kV Nanded	1 x (125-50) MVAR at Girawali	1X125 MVAR at Waluj	
E-2	Reactor Shifting	400 kV				
F	Capacitor	33 kV		Installation of 2x5 MVAR, 33kV Capacitor banks at 18 No. s/s 175MVAR (New Scheme)		

Karad Zone

Sr. No.	Particulars	Voltage level	2022-23	2023-24	2024-25	2025-26	2026-27	
A1	Substation (4)	220 kV		220/132/33 kV Kesurdi MIDC, District-Satara -	220/33 kV Kasbe Digraj (MIDC) District-Sangli			
		132 kV				132/33 kV Pachgani, District-Satara		
		110 kV		110kV Shiradwad GIS, District- Kolhapur -				
				LILO on 220 kV Kandalgaon-Sona Alloy at Kesurdi-2.5 Km DC				
A2	Associated Lines	220		220kV SCDC Jejuri –Kesurdi line from 400kV Jejuri S/s – 25km approx	LILO on Karad-Miraj S/S line at Kasbe Digraj -10 km			
		132		LILO on 132kV Lonanad – Wai DCDC line at Loc.no.78(cut point) -7 kms approx..		LILO on 132 kV Lonand-Wai Ckt-I at Pachgani -10km		
				LILO on 132kV Shirwal – ILJIN DCDC line at Loc.no.3 (cut point) distance-0.50km				
		110		LILO on Jawahar Co gen line (Future 110kV Tilwani-Jawahar line) at Shiradwad -16km				
B	Link Lines	220 kV		220kV Karad - Koyna (KDPH) SCDC-3.5 km (WIP)				
				LILO of one ckt of 220 kV Mhaishal - Jath line at Alkud – 46 ckt kms (GEC II) (Remaining scope of Alkud work)				
		132 kV		Ambheri - Aundh - 14km				
			Niwaliphata - Ratnagiri -28 km	Conversion of 132 kV Phaltan -Dahiwadi SCSC to DCDC line -35km				
			Kudal - Kankawali SCDC -28km		Conversion 110kV Oglewadi-Borgaon SC to 132kV-30km			
		110 kV		Conversion of 110 kV Vishrambaug - Borgaon -35km				
			Mudshingi (Kolhapur) - Puikhadi-16km	110 kv Mayani-Diganchi S/C TO D/C - -45km				
			Dudhganga - Radhanagri at Bidri-12km (Commissioned on 22.11.2022)	110kV Mudshingi - Renuka - Ichalkaranji SC To DC- 35km				
			Peth - Borgaon - 10.5km	110kv Ogalewadi-Atit S/C TO D/C - 45km				
			Jaysingpur - Kurundwad -40km					
C-1	2nd ckt stringing	220 kV						
		132 kV		Oglewadi-Mayani 40km				
		110 kV		Kale (T) - Warana -35km				
C-2		220 kV	220kV Talandage - Tilawani Ckt 1 & 2 - 13km					
		132kV		132kV Lonand-Satara Road line-35km	132kV Lonanad - Shirwal -30km			
	High Ampacity	110 kV		110kV Mudshingi-Renuka from Tower no. 41 to 110kV Renuka end and 110kV Renuka-Ichalkaranji line				
			110kV Tilawani - Ichalkaranji CKT-I,					

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D-1	Creation of New Level	220 kV					
D-2	ICT - Addition	400 kV	New Koyna (3x105)MVA 400/220kV (WIP)	Alkud (1X500)MVA 400/220kV (Remaining Scope)	Kolhapur (1X500)MVA 400/220kV		
		220 kV	Satara MIDC (1X100)MVA 220/132kV (Commissioned on 02.05.2022)				
			Niwali (1X100)MVA 220/132-110 kV (WIP)				
D-3	ICT - Replacement	400 kV					
D-4	Transformers - Addition	220 kV			2x100MVA 220/33kV Satara MIDC		
					1x50 MVA, 220/33kV at 220kV Lote S/s		
				220kV Five Star MIDC, Kagal (1x 50)MVA 220/33kV			
				220kV Tilawani (1x100)MVA 220/33kV			
		132 kV			1X50 MVA, 132-110/33kV Kavathe M'kal		
		110 kV		1x25 MVA, 110/33kV TF at 110kV Kale	1x25 MVA, 110/33kV TF at 110kV Kurundwad		
D-5	Transformers - Replacement	220kV			1x (50-25)MVA 220/33kV TF at 220kV Halkarni S/s		
					220kV Dasturi 1x(50-25)MVA 220/33kV		
		132 kV		2X (50-25)MVA 132/33 kV TF at 132kV Phaltan	Wai 1X(50-25)MVA 132/33kV		
				1x(50-25)MVA,132/33kV TF at 132kV Shirwal	1x(50-25) MVA, 132kV TF at 132kV Kudal S/s		
					Dahiwadi 1X(50-25)MVA 132/33kV		
110 kV		1x(50-25) MVA, 110/33kV TF at 110kV Ratnagiri S/s	1x (50-25)MVA, 110/33kV TF at 110kV Jaysingpur s/s				
E	Reactor	400 KV		New 125 MVAr bus reactor at 400 kV New Koyna			
F	Capacitor	33 kV	12 Nos - 125 MVAr (Phase - III)	15 Nos S/S- 170MVAR			

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Sr. No.	Particulars	Voltage level	2022-23	2023-24	2024-25	2025-26	2026-27
A-1	Substation (16)	220 kV	220/132/33 kV Uppalwadi, District-Nagpur (WIP)	220/132/33 kV Mankapur District- Nagpur (WIP)	220 /33 kV Sakoli, District- Bhandara		
			220/132/33 kV New Pardi District-Nagpur (WIP)	220/33 kV Kadholi , District Nagpur (BR Sanctioned)		220/132/33 kV Yenwa ,District-Nagpur (BR- Sanctioned)	
			220/132/33kV Naghbid , District- Chandrapur (WIP)	220/33 kV Pachgaon (Kuhi), District- Nagpur (BR Sanctioned)			
		132 kV	132/33 kV Jat Tirodi ,Dist- Nagpur (WIP)	132 /33 kV Lendra Park (GIS) District- Nagpur (BR Sanctioned)	132kV Kurkheda Dist. Chandrapur	132/33 kV Bazargaon ,District-Nagpur (BR- Sanctioned)	132kV Etapalli
				132/33 kV Sironcha, District- Gadchiroli (WIP)	132/33 kV Mihan, District- Nagpur (BR Sanctioned)		
					132/33kV Deori, District- Gondia (BR- Sanctioned)		
A-2	Associated Lines	220kV	220 kV Koradi-II to Uppalwadi DC line OH 3.5 KMs, UG Cable 4 kms	220 kV DC Uppalwadi-Mankapur U/G-9 Km	220 KV Sakoli Bhandara DC line- 40 kM		
			220 kV Uppalwadi - Pardi DC UG cable line 12.5 (Route Km)	LILO of one ckt of 220 kV Kanhan - Bhandara line for 220 kV Kadholi - 10 km			
			220 kV DC line from 220kV Umred S/s - 46 Km for 220kV Naghbid	LILO of one ckt of 220kV Kanhan – Umred DCDC Line for Pachgaon s/s 15 km		LILO on 220 kv Kalmeshwar- Warud DC line for 220 kv Yenwa-0.5 Km	
				Koradi-II to Mankapur (U/G)- 6kms	132kV Lakhandur - Morgaon Arjuni @ Kurkheda - 37 Km	LILO on 132 kV Ambazari- Amravati line for 132kV Bazargaon - 5 kms	
		132kV	Interconnection between 220 kV New Pardi and 132 kV Pardi s/s-2 ckt KM	LILO on Mankapur - Hingana I- for 132 kV Lendra ss - 7.746 KM (O/H- 3.25km,U/G-4.5km)	LILO on 132 kV Hingna II to Khapri line for Mihan S/s - 1 kms		
			132 kV DC undergroundcable from 132 kV Pardi s/s to Jat Tarodi s/-10.0 kms	132 kV SCDC line from Kistampeth (Telangana) for 132kV Sironcha - 35 ckt kms	LILO of 132 kV Amgaon - Gondia for 132 kV Deori ss - 41 km		

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B	Link Lines	400 KV					
		220 KV			220kV DCDC UG cable from GMR S/S to Sai Wardha S/S- 3.5 Km (Evacuation of GMR EMCO Gen)		220kV Koradi -II - Buttibori - III DC Line 105.ckm
					LILO on 132 kV Bramhapuri-Sindewahi Line for 132 kV Kolari SS.-10km		LILO of 220kV Koradi- II - Kaluwada DC line at Ultratech sstn.- 17km
		132 KV		Sicom to Mul-25km			
			132 kV Hingna-I to Hingna-II- 4 Km		132kV Mul - Ashti DC Line - 55km	LILO OF 132kV Warud - Bharsingi @ 220kV Karanja - 33km	
C-1	2nd ckt stringing	132 kV	Wardha - II - Seloo -20km	Brahmpuri - Sindhewahi-53km	Mul – Sindhewahi -30km		
					2nd ckt stringing of 132kV Ashti-Allapalli -25km		
	High ampacity	400 kV	400kV Chandrapur GCR - Chandrapur - II DC Line - 5 km				
		220kV		220kV Khaparkheda-Kanhan -64km			
					132 kV Katol-Bharsingi SC line- 38 km (RE)		
C-2		132 kV		132kV Pardi-Besa -9.13km	132kV Kalmeshwar-Katol -38km	132 kV Bharsingi-Warud line - 33km (RE)	132kV Kardha - Bhandara 16.41km
					132 kV Kalmeshwar-Ambazari line -19km (RE)	132kV Ambazari-Ramzanpur DC -53km	
D-1	Creation of New Level	400 kV			1 x 315 MVA 400/220kV at GMR S/s.		
		220 kV	Ambazari (2 X 25)MVA (WIP)	132/33 KV			

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D-2	ICT - Addition	400kV				
		220 kV			Sicom (1 X 100)MVA 220/132kV	
D-3	ICT - Replacement	400 kV				
		220 kV			Butibori I 2 X (200-100)MVA, 220/132kV	
D-4	Transformers - Addition	400 kV			Khaparkheda (1x25)MVA 220/33kV	
		220 kV			Umred 1x25 MVA 220/33kV	
		132 kV		Khapri (1 X 25)MVA 132/33kV	Hingna I (1 X 50)MVA 132/33kV	
				Morgaon Arjuni (1X 25)MVA 132/33kV	Hingna II (1 X 50)MVA 132/33kV	
				Gosikhurd (1X 25)MVA 132/33kV		
				Gosikhurd (1 X 25)MVA 132/33kV	Ambhora (1X25)MVA 132/33kV	
			Gondia (1 X 50)MVA132/33kV			
D-5	Transformers - Replacement	220 kV			Kaulewada 2X(50-25)MVA 220/33kV	
		132 kV		Bharshinghi 2X(50-25)MVA132/33kV		
E-1	Reactor (New)	400 KV	1X125 MVAR, Koradi -II (Commissioned 14.7.2022)	1x125MVAR Chandrapur Switching		
		400 KV	3 X 50 MVAR Shunt reactor for Chandrapur -Parli & Chandrapour Nanded			
F	Capacitor	33 kV		11 Nos S/S- 110 MVAR		
		132 kV		1 S/s - 30 MVAR		

Nasik Zone

Sr. No.	Particulars	Voltage level	2022-23	2023-24	2024-25	2025-26	2026-27
A1	Substation (16)	400kV	Evacuation arrangement for 1X660 MW generation of Bhusawal (ICT Cost) cost in ICT (WIP)	400/220 kV Pimpalgaon District- Nashik (BR- Sanctioned)	400/220kV Balsane , District-Dhule (RE)	400/220kV Malegaon(Saundane)	
		220kV	220/132 kV Pimpalgaon, District- Nashik (Commissioned on 06.08.2022)	220/33 kV Deosane, District- Nashik (BR- Sanctioned)	220/132 kV Nandurbar, District- Nandurbar		
				220/132/33 kV Supa MIDC District- Ahmednagar (BR- Sanctioned)	Upgradation of 132kV IGATPURI - TO 220kV GIS	220/132/33kV Akarale (Lakhmapur) (Discom PROPOSAL for 220kV Awaited)	
				220/33kV Shirampur, District- Ahmednagar (BR- Sanctioned)			
				220kV Adawadi			
		132kV	132/33 kV Sinnar (Shaha) District- Nashik (WIP)	132/33kV Dhanora ,District-Jalgaon (WIP)		132kV Navapur Dist-Nandurbar	132/33kV Pimpalner (MSEDCL/RE)
						132/33kV Mendhvan, District-Ahmednagar	
A2	Associated lines	400kV	400kV Bus Interconnector arrangement (between 400kV Deepnagar & Proposed 1x660MW) (WIP)	LILO 400kV A'bad PG-Boisar (PG) DC line at 400 kV Pimpalgaon -3 km	LILO on both ckt 400kV Sardarsrovar- Dhule D/C line - 36 ckm	LILO of 400kV Dhule-Babhaleshwar Lines at proposed 400kV Malegaon (Saundane) SS -46 km	
			LILO on one ckt of Nagar - 220 kV Bhose line at 400 kV Karjat s/s - 38 kms. (Commissioned on 07.09.2022)	Interconnection between 400 kV Pimpalgaon & 220 kV Pipalgaon S/s - 1 kms	220kV Balsane -Shivajinagar DC line - 36 ckm	LILO on both circkuits of 220 kV Malegaon-Kalwan Line at new proposed 400kV Malegaon (Saundane) SS-10km	132kV SC line from Sakri -30 km apprx
		220kV	220kV DC line from Pimpalgaon to GCR & ECR Eklahre - 44 km (Commissioned on 09.04.2022)	Reorientation of 220 kV Eklahre - Pimpalgaon line at 400 kV S/s - 1km	220kV Balsane -Vikharan DC line - 24 ckm	LILO on both circkuits of 220 kV Malegaon-Manmad at new proposed Soundane SS- 5km	
				LILO on one circuit of 220kV Nashik (OCR) – Navsari D/C line at proposed 220/33kV Deosane substation – 15 Km	220 kV DC line by making LILO on 220 kV Dondaicha -Jamde line one ckt – 50 ckt kms @ Nandurbar MIDC	LILO on both ckt of 220kV Malegaon-Satana at new proposed Soundane SS 220kV-Soundane-Satana-15km	
				LILO of one circuit of 220 kV Ahmednagar - Bhose DC line at Supa - 40 ckt Km	LILO on 220kV Eklahre - AKP @ Proposed 220kV Igartpuri-15km		
				LILO on 220 kV Babhaleshwar – Bhenda (S/C) line at 220 kV Shirampur S/s. - 5 ckm			
				LILO 220kV GCR Ghatghar @ 220kV Adwadi -9 km			
				220kV Babhleshwar-Adwadi DC link - 63km			

Nasik Zone

		132kV	LILO on both ckts of 132 kV Shevgaon – Pathardi DC line at 220 kV Amrapur (Pathardi) S/stn – 5 Km (Commissioned)	Conversion of existing 132 kV Yawal – Chopda SCSC line to D/C line. (For 132kV Dhanora)- 43km	LILO on 132 kV Shamsherpur - Nandurbar line at 220 kV Nandurbar MIDC - 20 ckt kms	LILO on 132 kV Kalwan - Dindori at 132kV Lakhampur – 20 ckt kms	
			LILO on 132 kV Babhaleshwar-Kopargaon line at 132 kV Shaha S/s - 31 Kms (WIP)	LILO on one circuit of 132 kV Yawal – Chopda line at 132 kV Dhanora S/s. (04 Km)	LILO on one ckt of 132 kV Nandurbar - Visarwadi line at 220 kV Nandurbar MIDC - 10 ckt kms.	132kV Visarwadi to Navapur DC line - 20km	
				LILO of both circuits of 132 kV Supa –Vadjire (WIP) DC line at Supa –10 kms		132 kV Sangamner - Mendhevan – 20 ckt kms	
				LILO 132kV KHAPARLE - Sangamner @ 220kV Adwadi -3km			
				LILO 132kV Khaparle - Akole @ 220kV Adwadi-3km			
B	Link Lines	400kV					
			220 kV DC line from 400 kV Taptitanda S/s to Amrapur – 75 Km (Commissioned on 28.07.2022)				
		220kV	220 kV DC line on DC towers from 220 kV Jeur s/s to 400 kV Karjat s/s- 52 kms. (WIP) balance work of 400kV Karjat				
			220 kV DC line on MC towers by making LILO on 220 kV Bhigwan-Kurkumb line at prop. 400 kV Karjat S/S-18 kms. (WIP) Balance work of 400kV Karjat				
			Bhenda - Vishwind DC (GEC)-70km (WIP)		Babhleswar - Kopargaon -36km		
		132kV	Nagar - Nagar via Nimbalk TSS-6km (WIP)			LILO of One circuit of 132kV Amalner - Nardane D/C line on 132kV Amalner - Parola line- 16km	
			132 kV Bhabhleshwar-Rahuri- A'nagar (GEC) 39 ckm (WIP)				
	LILO on 132kV Shivajinagr-Dhule at Sakri - 10 ckm			Conversion of 132 kV Bhabhleshwar - Sangamner SCSC line into DCDC - 34km			
C -1	2nd ckt stringing	220kV					
			220kV Dondaicha - Shahada -27km				
		132kV		132kV Alephata-Ghargaon -21.30km			
			132 kV Eklahare -Sinnar-29km	132kV Bhambori - Erandol- 26km			
			132kV Taloda - Shahada -27km				
			132kV Bhenda - Newasa-24km				

Nasik Zone

C-2	High Ampacity	220kV	220kV Dhule-Malegaon -80.5km (New Scheme)		220kV Babhaleshwar -GCR DC line 80km	220kV Shivajinagar - Malegaon S/C - 110Km (RE)		
						220kV Gangapur - Satana S/C - 110Km (RE)	220kV Gangapur - Valve S/C - 96Km (RE)	
						220kV Gangapur - Shivajinagar S/C - 96Km (RE)		
		132 kV		Manmad - Lasalgaon-32km				
				132kV OCR- Satpur line -20km	132kV Malkapur-Khadka line via VaragaonTap-47 km (RE)	220/132kV Kalwan (Bhendi) - 132kV Kalwan- 8km		
				132kV Deepnagar - Jalgaon (OLD) MIDC S/C - 28Km	132kV Manmad-Pimperkhed			
				132kV Deepnagar - Jalgaon (NEW) MIDC S/C - 27 Km	132kV Pimperkhed-Chalisgaon			
	220/132kV Malegaon - 132kV Malegaon-4.8km		132kV Manmad-Chalisgaon					
	Shivajinagar - Sakri - Dhule -80km	132kV Khaprle-Sinnar						
D-1	Creation of New Level	220 kV	Bhose (2X50)MVA 220/33kV (Commissioned on 12.11.2022)					
		132kV		2x50MVA 132/33kV at 132kV Ozar				
				Pimpalgaon (1 X 50)MVA 132/33kV				
D-2	ICT - Addition	400 kV	Khadka (3X105)MVA 400/220kV (WIP)		Babhaleshwar (3x167)MVA 400/220kV			
220 kV		Chalisgaon (1X200)MVA 220/132kV (WIP)		1X100 MVA 220/132kV ICT 220kV Shivajinagar.				
D-3	ICT - Replacement	400 kV	Babhleshwar 3x(167-105)MVA 400/220kV (Third ICT replace) (WIP)		Dhule 3 X (167-105)MVA 400/220 kV (third ICT replacement existing 2x500MVA +1x315)			
		220 kV			220kV Babhaleshwar 1x(200-100)MVA 220/132kV			
		220 kV		Raymond (1 X 25)MVA 220/33kV				
			Malegaon (1x50)MVA 220/33kV (Commissioned)	1x50 MVA, 132/33kV T/F at 220 kV Sayne .	Satana (1x50)MVA 220/33kV			
				1X100 MVA 220/132kV ICT 220kV Kekatnimbhora (RE)	1X100 MVA 220/33kV TF at 220kV Shivajinagar			
		132 kV		Dindori (1 X 50)MVA 132/33kV (WIP)	Newasa (1x25)MVA 132/33kV			
			Kedgaon (1 X 50)MVA 132/33kV (Commissioned)	Ghodegaon (1 X 50)MVA 132/33kV	1x50 MVA 132/33kV Ambad			
				1x50 MVA 132/33kV Khandke	1x50 MVA 132/33kV T/F at 132kV Shevgaon			

Nasik Zone

D-4	Transformers - Addition			Nardana (1 X 25)MVA 132/33kV	1x50MVA, 132/33kV TF at 220kV Kopargaon		
					1x50MVA, 132/33kV TF at 132kV Wadzire S/S		
					Samsheerpur (1X25)MVA 132/33kV		
					Sinner OLD (1X 50)MVA 132/33kV		
					1X50 MVA 132/33kV Dhule		
					Jalgaon NEW MIDC (1 X 50)MVA 132/33kV		
					1x50 MVA 132/33kV Ranwad		
					1x50 MVA 132/33kV Chandwad		
					1x50 MVA 132/33kV Karjat		
D-5	Transformers - Replacement	220 kV			2x(50-25)MVA 220/33kV TF at 220kV Bambhori		
					Dondaicha 1x(50-25)MVA, 220/33kV		
					1x(50-25)MVA 132/33kV TF Ramachepimplas		
		132 kV			1x(50-25)MVA 132/33kV TF Ghodegaon		
					1x(50-25)MVA 220/33kV TF Manamd		
					1x(50-25)MVA 132/33kV TF Sawda		
					2x(50-25)MVA 132/33kV TF Parola		
			2x(50-25)MVA 132/33kV TF Dharangaon				
E-1	Reactor - New	400 kV		1 X (125 - 50) MVAR, Khadka			
		400 kV		1 X (125 - 80) MVAR, Babhaleshwar			
F	Capacitor	33kV	13 Nos S/S-390MVAR	14 No's - 255 MVAR			
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Pune Zone

Sr. No.	Particulars	Voltage level	2022-23	2023-24	2024-25	2025-26	2026-27
A1	Substation(10)	400 kV	400/220 kV Hinjewadi (MIDC), District- Pune (WIP)			220/33 kV Marunje / Balewadi, District-Pune (Proposal not received)	
		220 kV	220/33 kV Khed City (Retwadi), District-Pune (WIP)	220/33kV Mundhale, District-Pune (BR-Sanctioned)	220/33kV Diva (Saswad)	220/33kV Watwate	
				220/132 kV Waghdari, District-Solapur	220kV Talegaon MIDC Phase II		
		132 kV	132/33 kV Bibwewadi, District-Pune (WIP)		220/22 kV Bhugaon, District-Pune (Proposal not received)		
A2	Associated line	400kV	LILO on Lonikand I - Koyna Stage IV at Hinjewadi-				
			a)Jejuri-Winjar section -103 ckm (WIP)				
			b) Winjar-Hinjewadi section -92 ckm (WIP)				
		220kV		LILO on 220kV Lonand-Baramati SC- 5km	LILO on 220kV Theur-Jejuri SC line for Diwa S/S - 3km	LILO on 220kV Chinchwad - Parvati SC line for 220kV Marunje ss -5 km	
			LILO on one ckt. of 220kV Lonikand-I – Kathapur DC line at Khed City- 5 kms	LILO on one ckts of 220 kV Solapur PG - Narangwadi DC line at 220 kV Waghdari - 40km	Bhugaon - Pirangut line 15 km	LILO on 220kV Lamboti-Pandharpur line 10km	
					220kV DC link from 400kV Talegaon PG to Talegan MIDC SS-6 km		
132kV	LILO on Kothrud-Phursungi by UG cable for Bibwewadi ss - 0.75 km	LILO on both ckt 132kV Wagdari-Tata Renew Solar-5km					
B	Link Lines	400 KV	LILO of Karad - Lonikand at Jejuri- 1.7km (commissioned on 03.11.2022)		400kV LILO - Lonikand-I Jejuri at 765kV Shikrapur PG -30km approx		
		220 kV	220 kV D/C line for reorientation of existing line at 220 kV Chinchwad-II -12 ckt kms (Chakan Telco, Parvati, Urse, Hinjewadi I & Flagship)-WIP	Solapur (PG) - Bale DC Line-40km (WIP)			
			Jejuri - Lonand- & Lonand-Baramati 14km (WIP)	LILO of Chinchwad - Telco at Chakan II - 9km			
				220kV TalegaonPG-Chakan DC-6km			
				220 kV DC line from 765 kV Shikrapur PG to 220 kV Khed City - 18 kms			
				220 kV DC line from 765 kV Shikrapur PG to 220 kV Ranjangaon S/s using existing corridor - 10 kms			
				Reorientation of 220 kV Babhleshwar - Ranjangaon ckt & Lonikand - Ranjangaon Ckt at Khed City - 5 kms			
				Chinchwad Apta for Talegaon (PG) - 36km (WIP)			
		Urse - Chinchwad -20km (WIP)					

Pune Zone

			Chinchwad - Kandalgaon - 28km (WIP)				
	132 kV		Conversion Chinchwad-Talegaon 100kV tower line to 132kV- 15km	LILO of Mahindra Forge-Vignhar at Pimpalgaon-10km			
			LILO of Indapur -Ujani at Lonideokar- 15km				
			Biltgraphic - Lonideokar -8 km				
			132 kV Walchandnagar - Bawda SCDC line - 35 kms on 132kV Walchandnagar-Indapur line(balance scope)	132kV Lonikand II to John Deere & Whirlpool SC to DC from Loc No 116 to 207 (New scheme)			
		Parvati - Kothrud Cable- 4km-(WIP)	NCL-Rahatani- 6km				
			Zuari - Chettinad - 2km	LiLO on Rahatani - Varasgaon at Flagship- 10km			
		Conversion of 132 kV Theur - Yavat - Daund SC to DC line (Old line)- 50km-(WIP)	132kV Chakan to Chakan II ss- 10km	132kV Kumbhari-Solapur MIDC SCDC (New Scheme)	LILO on Rahatani –Varasgaon - 10km @ Flagship		
			NCL--Phursungi- 18km	Upgradation of 110kV Pandharpur - Pulum - Degaon- into 132kV -55km			
C-1	2nd ckt stringing	220 kV	Tap to LILO Volks Wagon - 3km (to be confirm from ORC)	Theur-Magarpatta -16.5 km (New Scheme)			
				Lamboti-Vairag (new scheme)			
		132 kV		Bale -MIDC Solapur- 16km	Jeur-Parewadi (New scheme)		
				Degaon –Mandrup (GEC)- 15km	Pulum-Loknete co-gen (new scheme)		
				Naldurg - Waghdari- 35km			
				Tap to LILO at 132 kV Bajaj Auto (Chinchwad - Chakan)-5km			
				Purandwade Tap on Bawada Nira Bhima-Walchandnagar-5km			
		Velapur - ShankarNagar-13km					
		Malinagar to Velapur- 20km					
C-2	High Ampacity	220 kV		220kV Phursungi-Parvati	220kV South Solapur-Solapur PG DC- 6km (RE)		
		132 kV	Conversion of Existing 0.2 ACSR Panther Conductor to HTLS conductor from Loc no-221 to 132kV Whirlpool S/Stn Gantry of 132kV Ranjangaon-Whirlpool line. (New scheme)	132kV Mundhwa-Magarpatta radial ckt 2.5km & Mundhaw-Phursungi ckt via Magarpatta tap -14km	132kV Soregaon-Mandrup - 19km (RE)		

Pune Zone

D-1	Creation of New Level	400 kV						
		220 kV			Flagship (2X100)MVA 220/132kV			
D-2	ICT - Addition	400 kV			400kV Lamboti (3X167)MVA 400/220kV			
		220 kV						
D-3	ICT - Replacement	400 kV			Lonikand II 2X(200-100)MVA 220/132kV (New scheme)			
		220 kV		Jeur 1X(200-100)MVA 220/132kV				
						2X(200-100) MVA 220/132kV Chakan Phase II		
				Walchandnagar 1X(200-100)MVA 220/132kV (WIP)				
				Pandharpur 1X(200-100)MVA 220/132-100kV (WIP)				
D-4	Transformers - Addition	400 kV		Lonikand (1X50)MVA 220/22kV (WIP)	400kV Chakan (1x50)MVA 220/22kV			
		220 kV		Nanded City(1x50)MVA 220/22kV (WIP)	Ranjangaon(1X50)MVA 220/22kV			
				Shirsuphal (1x25)MVA 220/33kV	Pirangut (1X50)MVA 220/22kV			
					1x50MVA 220/33kV Bridgestone			
		132 kV		Sanaswadi (1x50)MVA 132/33kV	Urse (1X50)MVA 220/22kV			
				Sanaswadi (1x50)MVA 132/22kV (WIP)	Rahatani (1x50)MVA 132/22kV			
D-5	Transformers - Replacement	220 kV	Bhalawani 2 X (50-25)MVA 220/33kV (Commissioned)	Tembhurni 1 X (50-25)MVA 220/33kV (WIP)	Telco 2X (100-50)MVA 220/22kV			
				Bhigwan 1 X 50-25MVA 220/33kV	Yavat 1X (50-25)MVA 132/33kV			
		132 kV		Vairag 2 X 50-25MVA 220/33kV				
			Walchandnagar 1X(50-25)MVA 132/33 kV (Commissioned)					
				Indapur 1 X (50-25)MVA 132/33kV (WIP)				
		Purandvade 1 X (50-25)MVA 132/33kV (WIP)						
E-1	New Reactor	400 KV	1x(125-50)MVAr Lonikand I	1X125 MVAr, Jejuri				
				1X125 MVAr Chakan				
E-2	Reactor	400 KV						
		220 kV						
F	Capacitor	33 kV	3 Substations- 30 MVAr	6 Substations- 110MVAr				

Vashi Zone

Sr. No.	Particulars	Voltage level	2022-23	2023-24	2024-25	2025-26	2026-27
A-1	Substation (26)	400 kV	400/220 kV Kudus, District-Thane (WIP)		400/220 kV Kalwa -II GIS with 2x500MVA,400/200kV ICT	400kV Coromondal S/S (New scheme)	
					400/220kV Velgaon, District-Palghar (BR-Sanctioned)		
					400kV Neral Switching station (New scheme)		
					400kV Mukund S/S (new scheme)		
		220 kV	220/33 kV New Timber Market GIS / Panvel-II District-Raigad (WIP)	220/22 kV Mankoli / Bhiwandi, District- Thane (WIP)	220/22 kV Manor, District-Palghar	220/22 kV Horizon Developers (W) District- Thane	220/22 kV Palaspe, District-Raigad
			220/22 kV Pawane (MIDC),District- Thane (WIP)	220/22 kV Virar (West) / Chikhali Dongri District- Palghar (BR-Sanctioned)	220/33-22 kV Goregaon Filmcity GIS ,District- Mumbai	220/22 kV Dhokali/Pachpakhadi, District-Thane	
			220/132/33 kV Palghar, District- Palghar (WIP)	220/22 kV Virar (East) (Kopari)/HDIL District-Palghar	220/33 kV Panchanand/Taloja District-Raigad (BR- Sanctioned)	220/22 kV Pale, District-Thane	
			220/33 kV Ulwe Node GIS,District- Raigad (WIP)	220/22 kV Kaman (Vasai)/Kharbavh District- Palghar			
			220/33 kV Abhitghar (Wada), District- Thane (WIP)				
	132 kV	132/33 kV Jawhar, District- Palghar (WIP)	132/33 kV Dapchari,District- Palghar (BR- Sanctioned)				
		110/100 kV		100/22 kV Gaikwad Pada (Ulhasnagar) District- Thane (BR-Sanctioned)			110/22 kV Urane Puranik, District-Thane
A-2	Associated Lines	400 kV	400 kV D/C Babhaleshwar-Kudus line- 200 km		LILO on Tarapur-Kudus II DC line at Velgaon - 20km	LILO near tower Loc. No. 176 of 400 kV Kalwa – Kharghar line at 400 kV Estela Coromandel S/s – 5 km	
			LILO on both ckts of 400 kV Tarapur-Padghe line at Kudus- 15 km		LILO near Loc. 1134 on 400 kV Kalwa-Padghe Ckt 1 at 400 kV Estela Mukund subject to conversion to HTLS of 400 kV Padghe-Kalwa D/C- 4 km		
					LILO Boisar-Borivali SC -10km at Velgaon		
					LILO on Dahanu-Ghodbubdr DC-10km at Velgaon		
					LILO Dahanu-Versova SX - 5km at Velgaon		
					LILO Boisar-Versova SC- 5km at Velgaon		
		220 kV	LILO on 220 kV Tarapur-Borivali & Boisar- Ghodbunder line at Kudus - 10 kms	LILO on 220 kV Boisar (PG)-Vasai on D/C / M/C towers for 220 kV Kopari - 5 km	Reorientation of existing 220 kV lines at Kalwa II S/s	LILO on 220 kV Baapgaon - Kalwa line at Horizon Developers /Dombivali S/s- 10km	LILO on 220 kV Kharghar - Kandalgaon line at 220 kV Palaspe S/s- 5km
			LILO on 220 kV Padghe-Wada & 220 kV Kolshet-Wada at 400 kV Kudus - 10 km	LILO on 220 kV Boisar (PG)-Vasai line for 220 kV Chikhali Dongari - 4 km		LILO on 220 kV Temghar - Colourchem line at 220 kV Dhokali /PachpakhadiS/s- 5km	
			LILO on 220 kV Kandalgaon-Kharghar U/G for 220 kV Timber Market - 3km	LILO on 220 kV Kalwa-Bapgaon for 220 kV Mankoli - 300 m		220 kV DC line from 220 kV Jambhul S/s to Pale S/s- 25km	
			LILO on one ckt of 220 kV TIFIL-Kalwa U/G cable for 220 kV Pawane - 0.7 km	LILO on 220kV Kamba-Vasai for 220kV Kaman S/S-1km	LILO on Aarey (AEML) - Borivali (AEML) UG cable for Goregaon Film City - 5 km		
			LILO on 220 kV Padghe-Wada line for 220 kV Abhitghar - 9 km		LILO on 220 kV Kalwa-Taloja UG cable for 220 kV Panchanand/Taloja - 0.5 km		
			LILO at Ulwe end on both ckt of UG cable sec. of 220 kV Uran-Kharghar line for 220 kV Ulwe Node - 3 km		220 kV DC line from 220 kV Boisar PG S/s to Manor S/s-30km		
			LILO on 220 kV Boisar (PG)-Nalasopara for Palghar-10 km				
		132 kV	LILO on one ckt of Boisar MIDC- Dahanu line at Palghar- 15 km	132 kV DC Boisar II - 132 kV Dapchari - 25km			
			132 kV D/C Suryanagar/Kawdas-Jawhar line 40 km				

Vashi Zone

		100 kV	LILO at Panvel end on both ckt of UG cable sec. of 220 kV Kandalgaon - Kharghar line for Khandeshwar - 3 km				LILO on 110 kV Bhivpuri - Neral line-15km
				LILO on 110 kV Kalyan (TPC) - Ambernath (TPC) UG cable for 110 kV Gaikwad Pada - 1 km			
B		400 kV			Padghe - Padghe PG DC Line-7 km Cable	Conversion of 400kV SC to DC Kalwad-Padghe Ckt I & II- 52km	
	Link Lines	220 kV	Second source to 220kV Nalasopara from 400kV PGCIL S/S by Bay shifting work at 220kV Boisar II S/S (New scheme)	220kV Nagothane-Wadkhal ckt 3 & ckt 4 (new scheme) 27km	LILO on 220kV Bombay Dyeing-Sahara at 220kV Tambati S/S. -1km (new)		
		100 kV	100kV MUSCO-Khopoli -3km (New scheme)				LILO of 100 kV Ambernath – Mohone at Jambhul - 5km
			100kV Khopoli-Kalwa from Loc 64 to 120) -17 km (New scheme)				
C-1	2nd ckt stringing	100 kV					
		400 kV	400kV Kalwa-Padgha ckt -II- 52km (WIP)	400kV Kalwa-Padgha ckt -I-52km (WIP)			
		220 kV	Mulund - Trombay -24km (completed on 18.4.2022)	Padghe-Jambhul - 20 km & Jambhul-Anandnagar & Padghe-Pal- 22km			
			220kV BoisarPG-Nalasopara-57km (New scheme)				
			220kV Nalasopara-Padgha line -54km (new scheme)				
			220kV Kalwa-Apta.(39km) Kalwa-Taloja (25km) & Apta-Taloja (25km) link (New scheme)	220kV Kandalgan-ONGC-Vilebagad-Topworth (New scheme)			
			Kalwa-Colorchem line =14.4 km(New scheme)				
			220kV Colorchem-Temghar line -17.3 km (New scheme)				
			220kV Kalwa-Temghar line -16.5km (new scheme)				
C-2	HTLS		Boisar (M)-Boisar PG D/C - 9km (Completed on dt. 30.5.22)				

Vashi Zone

		100kV	100kV Kalwa-Standard -8.7km (New scheme)			
			100kV Kalwa-NOCIL - 17.5km (New scheme)			
			100kV Padghe -Mohane line -14.5km & Mohane-Ambarnath link -10km (new scheme)	100kV Kalwa-Reliable-Siffy-Standard, -9.65 km (New scheme)		
			100kV Padghe-Ambarnath line -18 km(New scheme)	100kV Apta-Bhokarpada 7.5km & Bhokarpada-Khopoli -19km (New scheme)		
			100kV Pal-Dombivali ckt I - 6km & ckt II - 6km (New scheme)	100kV NOCIL-Standard -1.2km (New Scheme)		
			Padghe-Bhiwandi D/C -18.5km			
D-1	Creation of New Level	220 kV	2x100MVA 220/132kV ICT at 100kV GAIL (new scheme)	Jambhul (2 X 50)MVA 220/22 kV (WIP)		
D-2	ICT - Addition	400 kV				1x500MVA 400/220kV ICT at Nagothane (New scheme)
						1x500MVA 400/220kV ICT at Kharghar
D-3	ICT - Replacement	400 kV		Nagothane 1 x (500-315)MVA (1st ICT)	Nagothane 1 x (500-315)MVA 400/220kV (Second ICT)	
				Boisar-II 1x(200-150)MVA 220/132kV (WIP)	Kharghar 2 x (500-315)MVA 400/220kV	
		220 kV		Padgha 1 X(500-315)MVA 400/220kV	2x(200-100)MVA 220/132kV Tambati	
D-4	Transformers - Addition	400 kV		Kharghar (1 X 50)MVA 220/33kV (WIP)		
		220 kV		Anandnagar (1x50)MVA 220/22kV	Airoli Knowledge Park(1X 50)MVA 220/33kV	
				Baapgaon (1X50)MVA 220/22kV	Sonkhar (1X50)MVA 220/33kV	
			Kolshet (1x50)MVA 100/22kV (WIP)	1x50MVA 220/22kV Vasai		
				Nocil (1X 50)MVA 100/22kV		
				Neral (1x25)MVA 110/22kV		
				Nalasopara(1X 100)MVA 220/22kV		
				ONGC Panvel(1X50)MVA 220/22kV		
		132 kV			Palghar (1X50)MVA 132/33kV	
		100 kV			Mohane (1X50)MVA 100/22kV	
				Ambarnath (1x50)MVA 100/22kV	Nerul (1X100)MVA 220/33-33kV	
D-5	Transformers - Replacement	220 kV		Mahape 2X(100-50)MVA 220/22-22kV		
				Colourchem 2X(100-50)MVA 220/22-22kV		
				Kolshet 1 X (100-50)MVA 220/22-22kV		
				Temghar 1 X (100-50)MVA 220/22-22kV		
		132 kV			Boisar MIDC 1X(50-25)MVA 132/33kV	
		100 kV			Patalganga 1X(50-25)MVA 100/22 kV	
E	Reactor	400 kV	(1 X 125 MVAR at Kalwa)	(1 X 125 MVAR at Kudus)		
F	Capacitor					
	Special Project HVDC			Upgradation of existing HVDC control & Protection of C'Pur-Padghe HVDC Bipole link		
				VSAT Captive Hub		

TPC-T Five Year STU Plan FY 2022-23 to 2026-27							
Sr	Particulars	Voltage level	2022-23	2023-24	2024-25	2025-26	2026-27
A	Substation	400 kV					
		220 kV			220/33 kV Worli S/S		220/33 kV New Dharavi
					220/33 kV Goregaon S/S		220/33 kV MbPT S/S
		110 kV			220/33 kV Vile Parle		
							110 kV / 33 kV Lodhivali S/S (New)
B	Associated Lines	400 kV					400 kV level creation at Dharavi : 400 kV Vikhroli - Dharavi line (13.0 km) (New)
		220 kV			220/33 kV Worli S/S : LILO of 220 kV Dharavi-Mahalaxmi Line by U/G cable at Worli - 2 km		220/33 kV New Dharavi : LILO of 220 kV Trombay Dharavi Lines at New Dharavi RS - 1 km
					220/33 kV Goregaon : 1. 220 kV Tata-Borivali RS - Goregaon RS S/C line - 8 km 2. 220 kV Sahar RS - Goregaon RS S/C line - 8 km		220/33 kV MbPT S/S : LILO on 220 kV Trombay-Carnac at MbPT (D/C) U/G cable - 2 km
				220/33 kV Vile Parle S/S : 220 kV D/C Versova-Vile Parle U/G cable- 4 km			
		110 kV					110 kV / 33 kV Lodhivali S/S (New) 1. 110 kV / 33 kV Lodhivali S/S (New) 2 km
C-1	Link Lines	220 kV	Trombay to Dharavi and Salsette (Interconnection with Saki) (Multi- circuit) - 59 km				
			220 kV Kalwa - Salsette line # 5- 10 km	Double circuit 220 kV lines from Tata Waghivli S/S to MSETCL's Waghivli S/S (800 Mtrs)			
		110 kV	110 kV Dharavi RS to BKC RS (S/C) U/G cable - 5 km (This part is completed)				
			110 kV Saki RS to Kurla RS (S/C) U/G cable - 5 km				
		110 kV Salsette RS to BKC RS (S/C) U/G cable - 18 km					

C-2	2nd ckt stringing	220 kV			220 kV Salsette Backbay (Carnac) line - 35 km (O/H + U/G section)		
		110 kV					
C-3	Reorientation	220 kV					
		110 kV					
C-4	HTLS/ Replacement of Conductor	220 kV		Replacement of 220 kV Trombay-Carnac -5 and 6 Oil Filled cable by XLPE cable- 8 km each		220 kV Waghivali Dharavi 7 and 8 HTLS upgradation (27 km each)	
				220 kV Salsette Borivli 1 and 2 HTLS upgradation (New)		Replacement of 220- kV Trombay-Dharavi 5, 6 Underground section by U/G cable - (3 km each)	
		110 kV		Replacement of 110 kV Trombay Carnac # 3 Oil Filled cable by XLPE cable - 8.5 km	Replacement of 110 kV Parel-Mahalaxmi#1 U/G Oil Filled Cable by XLPE cable - 5 km	Replacement of cable of 110 kV Parel-Grant Road (6 km)	
			Replacement of, Trombay Chembur # 1 (5 km) Trombay Chembur # 2 (5 km) Trombay Chembur # 3 (0.8 km) (Completed in FY 22) Khopoli Chembur cables (0.8 km) (Completed in FY 22)	Replacement of 110 kV Trombay Parel # 3 Oil Filled Cable XLPE Cable- 5 km	Replacement of 110 kV Dharavi-Mahalaxmi Oil Filled cable by XLPE cable- 7 km	Replacement of cable of 110 kV Carnac-Grant Road (6 km)	
D-1	Creation of New Level	400 kV					400/220 kV Dharavi S/S (New)
		220 kV					
		110 kV					
		33 kV		33 kV Level creation at Malad (Transformer replacement with 110 kV / 22 kV / 33 kV (additional) level)			
				33 kV Level creation at Karanjade for additional feeders for MSEDCCL(New)			

D-2	ICT - Addition	400 kV					400 kV S/S at Dharavi : 2 x 400/220 kV, 500 MVA ICTs at Dharavi (New)
		220 kV		2 x 250 MVA 220 / 110 kV ICTs at Vikhroli with 220 kV Cable	2 x 250 MVA 220 / 110 kV ICTs at Waghivali with 220 kV Cable		
D-3	ICT - Replacement	400 kV					
		220 kV		2 x 250 MVA, 220 kV / 110 kV / 22 kV ICT 1 & 2 (Salsette)	2 x 250 MVA, 220 kV / 110 kV / 22 kV ICT 1 & 2 (Borivali)		
D-4	Transformers - Addition	220 kV					
		110 kV					
D-5	Transformers - Replacement	220 kV					
		110 kV		75 MVA, 110 kV // 33 kV / 22 kV Transformer#2 (Malad)	75 MVA, 110 kV / 33-22 kV Transformer # 3 (Saki)		Replacement of 2 nos, 110/22 kV, 7.5 MVA transformers with 2 nos, 60 MVA Transformer (New)
E-1	Reactor - New	400 kV					400 kV S/S at Dharavi : 2 x 400 kV, 125 MVA Variable Reactors (New)
		220 kV		220 kV, 1 x 125 MVAR (Mahalaxmi)	220 kV, 1 x 125 MVAR Reactor at Borivali		
			220 kV, 1 x 125 MVAR (Salsette)	220 kV, 1 x 125 MVAR (Trombay)			
		110 kV					
33 kV							
E-2	Reactor-Shifting	400 kV					
F	Capacitor	33 kV					
		22 kV					

G	Addition of Bays	400 kV					400 kV Dharavi S/S: 1. 400 kV Bays : 07 bays + 02 PTs 01 no (at 400 kV Vikhroli S/S) 06 bays + 02 PTs at Dharavi
		220 kV	----	1 no of bay at Mahalaxmi (1 x 125 MVAR Mahalaxmi Reactor)	1 no of bay at Borivali (1 x 125 MVAR Borivali Reactor)		400 kV Dharavi S/S 220 kV Bays : 02 nos at Dharavi
			1 no of bay at Salsette (1 x 125 MVAR reactor at Salsette)	2 no of bay at Trombay (1 x 125 MVAR Trombay Reactor)			
		110 kV		Consumer funded projects : 2 nos of bays at Malad (Metro 2A) 2 nos of bays at Mahalaxmi (Metro 2A) 2 nos of bays at BKC (Metro) 5 nos of bays at Dativali (C Rly) 5 nos bays at Wadala (Metro) 5 nos of bays at Kanjurmarg (C Rly) 5 nos of bays at Mandale (Metro) 5 nos of bays at IIT Powai (IIT)			
H	Switchgear replacement by GIS)	220 kV					
		110 kV		26 nos. 110 kV GIS Bays at Parel along with 31 nos 22 kV swuchgear replacement	14 Nos. 110 kV AIS bays to GIS Bays at Malad S/S		
				24 Nos. 110 kV GIS Bays at Dharavi S/S			
				16 Nos. 110 kV GIS Bays at Vikhroli S/S			
		33 / 22 kV		MV AIS Switchgear replacement by GIS at Salsette (29 bays), Chembur (28 bays), Saki (15 bays), Ambermath (21 bays) and Borivali (18 bays)	22 kV AIS replacement with bays GIS with additional feeders to DISCOM at Kalayn RSS (32 bays) (New)		
			22 kV AIS replacement GIS with segragation of back to back feeders at Vikhroli RSS (57 bays) (New)				

I	Miscellaneous		<p>Installation of Fire Protection System: Work : Kolshet 110 kV / 22 kV Transformer 1 & 2 emulsifire system (rest of the scope wrk is completed)</p>	<p>Replacement of Transmission Line Towers in Vashi Waghivali Creek area : 1. 110 kV Waghivali - Mankhurd line : Replacement of towers, conductors and foundation from 77 nos to 83 nos and tower nos 120 to 122 lying in Vashi & Waghivali Creek. 2. 110 kV Waghivali - Chembur line : Replacement of towers, conductors & foundations of Tower nos 79 to 85 and tower nos 126 to 128 lying in Vashi & Waghivali Creek.</p>			
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AEML-T STU 5 Year Plan at Galnce sheet FY 2022-23 to 2026-27

S. N.	Particulars	Voltage Level	2022-23	2023-24	2024-25	2025-26	2026-27
A1	EHV Substations	220kV			220KV Switching S/s at Ghodbunder (Augmentation of Borivali-Ghodbunder-Boisar LILO line)	220/33 kV GIS EHV S/S at Kandivali	
					220/33 kV GIS EHV S/s at BKC (Golibar)	220/33 kV GIS EHV S/S at Dahisar	220/33 kV GIS EHV Station at Airport
					220/33 kV GIS EHV S/S at Chandivali	220/33 kV GIS EHV S/S at Malad	220kV Scheme at Tilak Nagar/ Sidharth Nagar
						220/33 kV Underground GIS EHV S/S at Khardanda	
						220kV Scheme at Uttan/ Rai Village	
A2	Associated Lines	220kV				LILO of 220kV Boisar-Versova Line at Kandivali - 2 km	220 kV LILO of Aarey- BKC line at Airport
					220KV Chembur BKC EHV S/s D/C Line (U/G cable) - 10.5 km	220 KV Ghodbunder - Dahisar D/C Line (U/G cable) - 6.5 km	220kV LILO of TPC Dharvi –Salsett Line at Tilak Nagar / Sidhartha Nagar EHV S/s – 2 Kms route
					220 kV LILO of TPC Salsette – Saki Line (at 220kV Chandivali EHV Scheme)	LILO of 220kV AEML Aarey-Borivali OH line at Malad by laying 220kV D/C Underground Cable - 1 km	
						220kV D/C Versova - Khardanda line by Underground Cable - 9 km	
						220 kV LILO of AEML Dahanu - Versova line at Uttan – 4 KMs route	
B	Link Lines	220kV					220 kV D/C cable connectivity Between 220 kV AEML-T BKC and 220 kV AEML-T Aarey - 15 km
							220kV D/C cable Connectivity Between Dahisar EHV Station – 220kV AEML-T Borivali EHV S/S - 6 km
						220 KV D/C cable system between Aarey - Chandivali - 3.5 Kms route	
							220kV Cable system between TPC Sahar to AEML Airport
C	Transformers – Addition	220kV				03rd, 220/33 kV, 125 MVA Transformer at BKC EHV S/s	03rd, 220/33 kV, 125 MVA Transformer at Kandivali EHV S/s
							03rd, 220/33 kV, 125 MVA Transformer at Dahisar EHV S/s
							03rd, 220/33 kV, 125 MVA Transformer at Malad EHV S/s
							03rd, 220/33 kV, 125 MVA Transformer at Khardanda EHV S/s
D	Reactor – Installation	220kV			100-120 MVAR Reactor at Chembur EHV S/s (New)		
		33 kV			33 kV Reactors at 220 kV /33 AEML-T kV EHV Station		
E	Additional Schemes	220kV & 33kV		220kV AIS to GIS Conversion at Aarey EHV S/s	220kV AIS to GIS Conversion at Versova EHV S/s	Installation of 250 MW BESS at Dahanu	
						220kV AIS to GIS Conversion at Ghodbunder EHV S/s	
						Appropriate Transmission scheme at 220kV level for reactive power mgmt. around DTPS / Boisar	
F	C4-HTLS	220kV				Line Augmentation with HTLS/ Twin Conductors (Aarey-Borivali, Versova-Aarey, Ghodbunder-Gorai, Ghodbunder-Versova)	

AEMIL- STU 5 Year Plan at Galnce sheet FY 2022-23 to 2026-27**AEMIL 1000 MW HVDC (VSC based) Scheme (Kudus – Aarey).**

S. N.	Particulars	Voltage Level	2022-23	2023-24	2024-25	2025-26	2026-27
A1	EHV Substations	± 320 kV				1000 MW HVDC Terminal Stations at Kudus & Aarey	
A2	Associated Lines					HVDC link between Kudus-Aarey -80 KMS route	

KVTPL Five Year STU Plan FY 2022-23 to FY2026-27 At a Glance sheet

S. N.	Particulars	Voltage Level	2022-23	2023-24	2024-25	2025-26	2026-27
A1	EHV Substation	400kV	400/220 kV GIS S/S with 3 x 500 MVA ICTs, Installation of 1 x 125 MVAR 400 kV Bus Reactor, 220 kV Spare Bays				
A2	Associated Lines		400 kV Kharghar-Vikhroli D/C & M/C line with bays at Kharghar & Vikhroli (with HTLS conductor of 2000 MW capacity per circuit) - 21.725 km				
			LILO on 400 kV Talegaon-Kalwa line at 400 kV Vikhroli GIS S/S - 12 km				
			LILO of existing 220 kV Trombay-Salsette I & II and 220 kV Trombay-Salsette III & IV at 400/220 kV Vikhroli				