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Sr. No.	Particulars	Vol level	2024 - 25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34
A-1	SUB-STATION	765 KV										
		400kV			400kV NandgaonPeth (2x500MVA ICT)					400/220 kV Chikhali SS Dist: Buldhana (NEW)		
		220kV	220/132 kV Warud, District Amravati (Back charged 04.08.2021) (220kV Bus permanently charged on dtd.21.09.2023)	220/132/33kV Lonar , District-Buldhana (BR sanctioned)	220/33 kV Babhulgaon SS Dist: Yavatmal (NEW)	220/132/33kV Wadai Satwai, Dist: Akola (NEW)						
			220/132kV Pandharkawda, District-Yavatmal (Back charged on 18.02.2022)									
		132kV	132/33 kV Karajgaon, District Amravati (BR sanctioned)	132kV Nandura Dist.Buldhana	132/33 kV Mukutban, District-Yavatmal (BR sanctioned)		132/33kV Shegoan SS, District-Buldhana (NEW)	132kV Maregaon, Dist Yavatmal (NEW)	132kV Manora, Dist Washim (NEW)			
				132kV Fulsawangi SS Dist: Yavatmal (NEW)	132/33 kV Amdapur Tal: Chikhali Dist: Buldhana (NEW)		132kV Pinjar (Barshi Takali) SS Dist: Akola (NEW)					
A-2	ASSOCIATED LINES	765kV										
		400kV			LILO on 400kV Koradi-M/s RIPL Nandgaonpeth SC/SC-5 km					LILO on one Ckt of 400kV Akola - Ch sambhajinagar (POWERGRID) DCDC line at 400kV Chikhali - 5km(NEW)		
		220kV	220 kV Kalmeshwar - Warud DC Line– 171.27 ckm for Warud ss (Spillover/WIP)	220 kV Malegaon - Lonar DC line -72 kM	220kV DC Nandgaonpeth-Nandgaonpeth -1 km	LILO on one ckt of 220kV Akola-Anjangaon DCDC line for 220kV Wadai Satwai SS -25km OR LILO on one ckt of 220kV Paras-Akola DCDC line. (NEW)						
			220 kV Wani – Pandharkawada D/C Line - 60 kms(Spillover/WIP)		220kV line from 400kV Nandgapeth-Anjangaon -60km							
					220kV line from 400kV Nandgapeth-Warud -60km							
					220kV Dhamangaon- Babhulgaon DCDC line-33km (NEW)							
		132kV	LILO on 132 kV Chandur Bazar - Achalpur line at Karajgaon - 18kms	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		132kV Murtizapur – Pinjar (Barshi Takli) DCDC Line for 132kV Pinjar (Barshi Takli) SS – 19 km. (NEW)					
				LILO on one ckt of 132 kV Dusarbid - Mantha line at Lonar-18km	LILO on 132kV Khamgaon – Chikhali SCDC line at Amdapur OR LILO on 132kV Chikhali – Mehekar at 132KV Amdapur SS).(NEW)							
				132 kV SCDC line from Lonar - Risod-32 km	132kV Babhulgaon- Ralegaon DCDC line- 40m (NEW)							
				LILO on 132kV Khamgaon-Malkapur line at Nandura - 3 km	LILO on 132kV Arvi- Pulgaon SCDC line -30km (NEW) at 220kV Babhulgaon							
				LILO on 132kV Pusad – Gunj line at 132kV Fulsawangi S/Stn – 25 kms (NEW in Plan 2023-24 to 2032-33)								
		110kV										
		100kV										
B	LINK LINES	765kV										
		400kV										
		220kV		220 kV Yavatmal LILO pt -Ghatodi DC line (Balance work of Deoli-Ghatodi) - 116 km (Part B)	220kV DCDC line from 220kV Partur to 220kV Lonar SS (NEW)	220kV Malkapur – Bhusawal corridor SCDC line (NEW)						
		132kV		LILO 132KV Nagewadi -Jafrabad -S/c at 132kV Deoulgaonraja -16km	132kV Karanja –Murtizapur SCDC Line – 39 km (NEW)	Conversion of 132kV Malkapur-Motala- Buldhana-Chikhali SCSC line into DCDC Line (NEW)	Conversion of 132kV Chikhali-Mehkar SCSC line into DCDC Line (NEW)					
		110kV										
		100kV										
		220kV	2nd ckt stringing of 220kV Badnera-Ner line with HTLS conductor (NEW)									

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Sr. No.	Particulars	Vol level	2024 - 25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34
C-1	2nd CIRCUIT STRING	132kV	Malegaon - Mehekar- 44km (WIP)	132kV Nepanagar(Pipalpani) - Dharni-60km (Req. for MSKVY also)								
		110kV										
		100kV										
C-2	HIGH AMPICITY CONDUCTOR	400kV										
		220kV	220 kV Badnera-Ner Ckt-I (NEW)	Replacement of existing conductor by HTLS for 220kV Paras- Chikhali Ckt-1 (NEW)	Replacement of existing conductor by HTLS for 220kV Balapur- Malkapur ckt (NEW)	Replacement of existing conductor by HTLS for 220kV Balapur-Malegaon DCDC line (NEW)						
		132kV		132 kV Nandgaonpeth-Amravati SC line-40 km (RE) (New)	132 kV Malegaon (Zodga)-Malegaon DC line -10km (RE) (Shifted from 2022-23 of Plan 2022-23to 2026-27))	132 kV SC line from 220 kV Warud to 132 kV Warud s/s -36km						
					132 kV Ghatodi-Pusad SC line -21 km (RE) (Shifted from 2022-23)							
		110kV										
		100kV										
C-3	REPLACEMENT OF CONDUCTOR	220kV										
		132kV										
C-4	CONVERSION OF LINE	220kV										
		132kV										
D-1	CREATION OF NEW LEVEL	400kV										
		220kV		Warud (2X25)MVA 220/33kV								
		132kV					2X100 MVA T/F 220/132 kV Babhulgaon SS Dist: Yavatmal (NEW)					
		33kV										
D-2	ADDITION OF ICT	765kV										
		400kV										
		220kV			Malkapur (1x100)MVA 220/132kV ICT 3rd (RE)	Nandgaon Peth 2nd ICT (1x100)MVA 220/132kV						
D-3	REPLACEMENT OF ICT	400kV		Replacement of First 3x105MVA (315MVA) by 3x167 MVA (501MVA) 400/220/33 kV ICT at 400kV Akola SS (NEW in Plan 2023-24 to 2032-33)			Replacement of 2nd ICT 3x105MVA (315MVA) by 3x167 MVA (501MVA) 400/220/33 kV ICT at 400kV Akola SS (					
		220kV										
D-4	TRANSFORMER ADDITION	220kV		Ner (1x50)MVA 220/33kV TF 3rd (RE)	220kV Badnera SS(1x50MVA, 220/33 kV) (NEW in Plan 2023-24 to 2032-33)							
			Risod (1X25)MVA 132/33kV (WIP)	132kV Magarulpir (1x25MVA, 132/33 kV) (NEW in Plan 2023-24 to 2032-33)	132kV Khamgoan SS (1x50MVA, 132/33 kV) (NEW in Plan 2023-24 to 2032-33)	220kV Chikhali SS (132/33kv 1x50MVA, 132/33 kV) (NEW in Plan 2023-24 to 2032-33)	Buldhana (1X25)MVA 132/33kV	Karanaja (1X25)MVA 132/33kV				
			Umerkhed (1X25)MVA 132/33kV (WIP)	132kV Malegoan SS (1x50MVA, 132/33 kV) (NEW in Plan 2023-24 to 2032-33)	Washim(1X25)MVA 132/33kV (WIP)	132kV Akot SS-1x50MVA,132/33kV TF (NEW in Plan 2023-24 to 2032-33)	132kV Digras SS(1x25MVA, 132/33 kV) (NEW)					
			Motala (1X25)MVA 132/33kV (WIP)	132kV Arni 132/33 kV 25 MVA T/F (MSKVY) (NEW)	132kV Mehkar SS(1x50MVA, 132/33 kV) (NEW in Plan 2023-24 to 2032-33)							
				132kV PATUR 132/33 kV 25 MVA T/F (MSKVY) (NEW)	Gunj (1X25)MVA 132/33kV (WIP) MSKVY							
		110kV										
		100kV										
D-5	TRANSFORMER REPLACEMENT	220kV		220kV Dhamangaon SS 2x(50-25)MVA, 220/33 kV (NEW in Plan 2023-24 to 2032-33)								
				220kV Balapur SS 2x(50-25)MVA, 220/33 kV (NEW)								
		132kV		132kV Patur SS 2x(50-25)MVA, 132/33 kV (NEW)MSKVY	2X(50-25)MVA 132/33 kV Pandharkawda							
					132 kV Dusarbid SS 2x(50-25)MVA, 132/33 kV (NEW)							
					132kV Murtizapur SS 2x(50-25)MVA, 132/33 kV (NEW)(MSKVY)							
		110kV										
		100kV										

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Sr. No.	Particulars	Vol level	2024 - 25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34
E-1	NEW REACTOR	400kV	Akola 1 X125 MVAR (WIP)									
		220kV										
E-2	REPLACEMENT REACTOR	400kV										
		220kV										
F	CAPACITOR	220kV										
		132kv										
		33kv	Ph-V 12 Nos SS- 95 MVAr									

Sr. No.	Particulars	Vol level	2024 - 25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34
A-1	SUB-STATION	765 kV										
		400 kV										
		220kV	220/33 kV Shendra DMIC ,GIS District-Aurangabad (WIP) (Spill over from 2022-23)	220/33 KV Bidkin DMIC, GIS District-Aurangabad	220/33kV Sarul (BR Sanctioned) (MSEDCL/RE)	220/132/33 kV Dahegaon Bangla (Murmi)(New)	220/132/33 kV S/ s at Karmad (New)					
					220/132kV Station Narsi	220/132/33 kV S/s at Gandheli (New)						
		132kV	132/33kV Ida Jawala Dist-Osmanabad (WIP)	132/33kV Ajani BK (Previously Talegaon) Dist-Latur (New) (MSEDCL/RE)	132/33 kV Sawana S/s, Tal. Sengaon, Dist. Hingoli	132/33 kVs/s at Kada S/s Dist. Beed (New) / Pimpla/ Dongargaon	132/33 kV S/S at Takarvan, Majalgaon, Beed (New)	132/33 kV S/s at Golwadi Kanchanwadi, Dist. Sambhaji Nagar (New)	132/33 kV S/s at Karodi, Dist. Sambhaji Nagar (New)	132/33 kV S/s at Mudkhed Substation, Nanded (New)	132/33kV Ladzari (MSEDCL/RE)	
			132/33kV Samudral Substation, Dist-Osmanabad (WIP)	132/33kV Barashiv (Hanuman Nagar/Aundha) District- Hingoli (MSEDCL Demand received)	132/33 kV Mahur, District-Nanded (BR Sanctioned)		132/33 kV S/s at Belora, Shirur, Beed (New)	132/33 kV Substation at CADA, Dist. Sambhaji Nagar (New)	132/33 kV S/s at Bazar Sawangi, Dist. Sambhaji Nagar (New)			
				132/33kV Selu								
		110kV										
		100kv										
		765 kV										
		400kV										
		220kV	LILO on one circuit of 220 kV DC line from 400 kV Aurangabad (PG) – Shendra at 220kV Shendra (AURIC) (DMIC Project) – 8 Km	LILO of 220 kV Chitepimpalgaon - Chitegaon @Bidkin DMIC - 5 kms	LILO on 220kV Beed-Manjarsumbha line -20km with HTLS for Sarul S/s	220kV LILO on Waluj Chitegaon line for 220kV Dahegaon SS (New)	220 kV Thaptitanda - Waluj LILO at 220 kV Karmad-12km (New)					
					220kV D/C LINE from 220220kV Krishnoor to Narsi sstn	LILO of 220 kV PGCIL Shendra line at 220 kV Gandheli.(New)	LILO of 220 kV PGCIL Shendra DMIC line for 220 kV Karmad s/s (New)					
		132kV	LILO of 132kV Bhoom-Paranda line at Ida Jawla S/S - 2km (WIP)	LILO of 132kV Harangul-Chakur at Ajani Bk. (New)	LILO ON 132kV Waghala Narsi (dhuppa) line @220kv Narsi	132kV Chittegaon - Paithan LILO at Dahegaon Bangla	132 kV Line from 220kV Georai S/s to Takarvan – 35 kms	LILO on 132 kV Padegaon - Paithan at 132 kV Golwadi (New)	LILO ON 132KV Walunj - Padegaon AT KARODI	LILO of 132 kV Waghala-Umri line at Mudkhed (New)	LILO of 132kV Girvali-Ahmedpur at Ladzari (New)	
			LILO of 132kV Killari-Narangwadi line at Samudral S/S - 5km (WIP)	LILO of 132 kV Kurunda - Hingoli line at Barashiv S/s- 16km	Reorientation of 132kv Mukhed - Narsi Line & Narsi Kundalwadi line at 220kv Narsi	132kV Chittegaon - to Dahegaon Bangla D/C line	LILO on 132 kV Raimoha - Beed line at Belora – 5 kms	132 kV Chikalthana CADA Line (EHV Cable (New)	LILO ON 132KV Swawangi - Kagzipura AT Bbazar sawangi			
				LILO of 132kV Partur-Parbhani at Selu (New)	132 kV Gunj - Mahur SCDC line - 25 kms	132 kV line from 220/132/33 kV Gandheli s/s to 220 kV Shendra s/s (New)						
					LILO ON 132kV Jam Bazar - Washim line @132kv Sawana	132 kV line from 220/132/33 kV Gandheli s/s to 132kV Satara s/s (New)						
						LILO ON Ahamadnar - Pathardi Line at 132KV KADA/PIMPLA/DONGARGAON						
		110kV										
		100kV										
B	LINK LINES	765kV										
		400kV	400kV Bhusawal-II - Waluj at Tapthitanda -177km (Balance work of 400kV Thapati Tanda) (WIP)									
		220kV	LILO on one circuit of Chikhali - Jalna line at 220 kV Nagewadi – 30 ckt kms (Remaining scope of Nagewadi Work)	220kV Nagewadi - Bhokardan DC-50 km (WIP)	220kV Georai-Partur DC line -80km							
				220 kv Interconnection between 220KV Murud -Tuljapur and Barshi Osmanabad (0.5 km)	LILO of 220 kV Jalna- Chikhali Ckt- 2 at 220 kV Nagewadi Substation (New)							
		132kV	132kV Ambad – Ghansawangi at Partur -30 km (WIP)	Interconnection Between 132 KV Hingoli Sengaon CKT-1 & 132 KV Yeldari Risod (13 km)	132 kV Basmat- Jangamwadi DC line (New) 25km	132kV SCDC Line from 220kV Deogaon Rangari-Kannad - 30km	LILO on 132kV Chittegaon-Deolai(Satara)-line at 220kV Shendra - 10km					
				Georai - Rajpimprie LILO at 220 kV Georai S/s - 5 kms		Patoda - Raimoha SCDC (GEC)-30km						

Sr. No.	Particulars	Vol level	2024 - 25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34
						LILO Kharda - Ashti at Patoda (GEC)-30km						
		110kv										
		100kV										
C-1	2nd CIRCUIT STRING	220kV										
		132kV	132kV Nilanga-Omerga	132kV Jalkot-Udgir								
			132kV Kharda-Bhairvnath (RE)	132kV Bhokardhan - Rajur- 26km								
			132kV Bhokardan - Jafrabad - 29km (WIP)	132kV Parbhani - Pathri- 48km								
			132kV SAT - Gangapur-27km	132 kV Jalna Old - Partur - 49 kms (New)								
			132kV Georai - Mahakala- 22km	132 kV Gangapur- Vaijapur -40 km (New)								
			132 kV Bhokar - Tamsa - 24 kms (New)									
			132 kV Bhokar - Himayatnagar – 45 Km (New)									
		110kV										
		100kV										
C-2	HIGH AMPICITY CONDUCTOR	400kV										
		220kV	220kV Beed-Patoda-Manjarsumbha - 45km (RE)									
			220kV Beed-Patoda -35km (RE)									
		132kV	132kV Nagewadi to 132kV Jalna MIDC	132kV Ujani-Tulajapur-Naldurg-Solapur DC line -107kms including LILO portion								
			132kV Jalna MIDC-Jalna line (via Rajur ckt-II)	132kv Shendra - Chikalthana - 12km								
			132kV Partur to Partur DC line (RE)									
			132kV Harangul-Ausa- Ujani and 132 kV Harangul-Niwali- Ujani including LILO portion of Ausa and Niwali -79ckt kms -Tulajapur-Naldurg-Solapur DC line -107kms including LILO portion (New)									
		110kV										
		100kV										
C-3	REPLACEMENT OF CONDUCTOR	220kV										
		132kV										
C-4	CONVERSION OF LINE	220kV										
		132kV										
D-1	CREATION OF NEW LEVEL	400kV										
		220kV	Patoda (2X100)MVA 220/132kV (RE)	Shendra DMIC (2X100)MVA 220/132kV								
				400kV Waluj S/s 2x100 MVA , 220/132kV								
		132kv										
		33kv	33 kV level creation at 220 kV substation Georai with 2X25 MVA, 220/33 kV (New)	Padegaon (2X50)MVA 220/33kV								
D-2	ADDITION OF ICT	765kV		1x1500MVA ,765/400kV Ektuni								
		400kV	Thaptitanda (3X 167)MVA 400/220kV	Kumbhargaon (3X167)MVA 400/220kV								
		220kv		Narangwadi (1 x 100 MVA), 220/132 kV (RE)	Paranda(1X100)MVA 220/132kV (RE)							
				1 x 200 MVA, 220/132 kV ICT at 220 kV Jalna S/s (New)	Tuljapur (1x100)MVA220/132kV							
				1 x 200 MVA, 220/132 kV ICT at 220 kV Nagewadi S/s (New)	Jalkot(1x100)MVA 220/132kV (RE)							

Sr. No.	Particulars	Vol level	2024 - 25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34
D-3	REPLACEMENT OF ICT	400kV										
		220kv										
D-4	TRANSFORMER ADDITION	220kV	Waluj (1 X 50)MVA 220/33kV (WIP)	220 kV Hingoli, 1x25 MVA, 220/33 kV (New)	220 kV Shendra S/s, 1 x 50 MVA, 220/33 kV (New)		220 kV Paranda, 1x50 MVA, 220/33 kV (New)					
				220 kV Krishnoor, 1x 25 MVA 220/33 kV (New) (MSKVY)	220 kV Chitegaon S/,l x 50MVA, 220/33 kV (New)							
				1x50 MVA, 220/33kV TF at 220kV Degaonrangari	220kV Bhokardhan, 1X25MVA, 220/33kV (New)							
		132kV	Harshul (1X50)MVA 132/33 kV (WIP)	1x50 MVA, 132/33kV TF at 132kV Jalna MIDC	132 kV Kagzipura S/s, 1x25 MVA, 132/33 kV (New)							
			Deolai (1X50)MVA 132/33kV (WIP)	50MVA 132/33kV TF at 132kV Ashti S/s	132 kV Majalgaon, 1x50 MVA, 132/33 kV (New)							
			132 kV Chakur S/s, 1x25 MVA, 132/33 kV (New) MSKVY	Vaijapur (1X50)MVA 132/33 kV MSKVY	1x50 MVA 132/33kV TF at 132kV Chikalthana S/s							
				Umri (1X50)MVA 132/33kV (New) MSKVY	1x50 MVA, 132/33kV TF at 132kV Jintur S/s							
				Ausa(1X50)MVA 132/33kV (New) MSKVY	1x25 MVA, 132/33kV TF at 132kV Purna							
					1x50 MVA, 132/33kV TF at 132kV Soygaon (MSKVY)							
					1x50 MVA, 132/33kV TF at 132kV Sillod							
					132 kV Chakur S/s, 1x25 MVA, 132/33 kV (New)							
					Jafrabad (1X25)MVA 132/33kV							
					1x25 MVA 132/33kV TF at 132 kV Degloor							
					1x25 MVA 132/33kV TF at 132 kV Kallamb							
					1x50 MVA 132/33kV TF at 132 kV Georai							
					132/33kV 50MVA TF at 132kV Paithan S/s							
					1x25 MVA 132/33kV TF at 132 kV Kinwat							
					1x25 MVA 132/33kV TF at 132 kV Himayatnagar							
		110kV										
		100kV										
D-5	TRANSFORMER REPLACEMENT	220kV	Jalna 2X(100-50)MVA 220/33-33KV	220 kV Sawangi S/s, 2 x (50-25) MVA, 220/33 kV (New)	220 kV Manjarsumba S/s, 2 x (50-25) MVA, 220/33 kV (New)							
				2x(50-25) MVA 220/33kV TF, Bhokar (MSKVY)	220 kV Beed S/s, 2 x (50-25) MVA, 220/33 kV (New)							
		132kV	Udgir 1X(50-25)MVA 132/33kV (MSKVY)	132 kV Niwali S/s, 2 x (50-25) MVA, 132/33 kV (New)	132 kV Mukhed S/s, 2 x (50-25) MVA, 132/33 kV (New)							
				2x(50-25) MVA, 132/33kV TF at 132kV Ghansawangi S/s	132/33 kV Pangri S/s, 2 x(50-25) MVA, 132/33 kV (New)							
				132/33 kV Ardhapur S/s, 2 x(50-25) MVA, 132/33 kV (New)	132/33 kV GCR Parli S/s, 1 x(50-25) MVA, 132/33 kV (New) MSKVY							
				132/33 kV Mantha S/s, 2 x(50-25) MVA, 132/33 kV (New) (MSKVY)	132/33 kV Pishor S/s, 1 x(50-25) MVA, 132/33 kV (New) MSKVY							
				132/33 kV Umari S/s, 2 x(50-25) MVA, 132/33 kV (New) MSKVY								
		110kV										
		100kV										
E-1	NEW REACTOR	400kV	1X125 MVAr at Thaptitanda (WIP)	1X125 MVAr at Waluj								
			Conversion of 02 nos. of fixed 50 MVAr reactors at 400 kV Girawali into switchable 50 MVAr reactors (Kalamb LILO time line) (Western Region Network expansion scheme)	5x50MVAR, Line Reactors at 400kV Girwali Substation								
				02 nos. of new 80 MVAR Line Reactor at 400 kV Kumbhargaon S/s(New)								
		220kV										
E-2	REPLACEMENT REACTOR	400kV	1 x (125-50) MVAr at Girawali (WIP) cost included in Taptitanda reactor									
		220kV										
		220kv										
		132kv										

Sr. No.	Particulars	Vol level	2024 - 25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34
F	CAPACITOR	33kv	2x5 MVAr, 33 kV Level capacitor bank at 220 kV Partur S/s (New) (verify status to be proposed in 2024-25 to 2025-26)									
			Installation of 2x5 MVAr, 33kV Capacitor banks at 18 No. s/s 175MVAR (New Scheme) (verify status to be proposed in 2024-25 to 2025-26)Capacitor Bank Phase V									

KARAD

Sr. No.	Particulars	Vol level	2024 - 25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34
	SUB-STATION	765kV										
		400kV										
		220kV		220/33 kV Kasbe Digraj (MIDC) District-Sangli		220/132//33kV Kesurdi		220 / 33 KV Talasure S/s with associated Line (New) , Proposal not recived from MSEDCL				
		132kV		132/33 kV Pachgani, District-Satara			132 / 33 KV Akurde S/s (New)					
		110kV		110kV Shiradwad GIS, District-Kolhapur							110 / 33 KV Jamsut S/s with associated Line (New) (Disscom requirment awaited	
											110 / 33 KV Herle S/s with associated Line (New) (Disscom requirment awaited	
		100kV										
	ASSOCIATED LINES	765kV										
		400kV										
		220kV		LILO on 220kV Karad-Miraj S/S line at Kasbe Digraj -10 km		220kV D/C Line from 765kV Pune III to Kesurdi MIDC -60km						
						LILO on Kandalgaon-Sona Aloy at Kesurdi						
		132kV					132 KV DC from Bidri S/s.to Akurde S/s - 15 Km. Approx (New)					
				LILO on 132 kV Lonand-Wai Ckt-I at Pachgani -10km		LILO on 132 kV Lonand-Wai line at -10km						
		110kV		LILO on Jawahar Co gen line -Hupari Tap Line (Future 110kV Tilwani-Jawahar line) at Shiradwad -16km		LILO on 132 kV Shirwal-Bhatghar line at -10km						
		100kV										
B	LINK LINES	765kV										
		400kV										
		220kV	220kV Karad - Koyna (KDPH) SCDC-3.5 km (WIP)	220 KV Alkud - Tilwani line - 65 kms.(New)		LILO on New KDPH-Karad Line at 220 kV Vankuswade-21 Km (New)						
			LILO of one ckt of 220 kV Mhaishal - Jath line at Alkud – 46 ckt kms (GEC II) (Remaining scope of Alkud work) (WIP)	220kV DC line from 400kV Kalamba PGCIL S/s to 220kV Mudshingi S/s. – 20kms (New)	Construction of LILO on 220 KV Mudshingi - Chikodi Line at 220 KV Five star MIDC Kagal - 5 Km (New)							
		132kV	132kV Ambheri - Aundh - 14km (WIP)	Conversion of 132 kV Phaltan - Dahiwadi SCSC to DCDC line -35km	Construction of 132 KV DCDC Line from 220/33 KV Sawantwadi (Insuli) S/s to Kudal S/s - 27 Km (New)							
			110kV Niwaliphata - Ratnagiri -28 km (WIP)									
		110kV	110 Kv Dudhganga Radhanagari at Bidri 12km (WIP)	110kV Mudshingi (Kolhapur) - Puikhadi- 16km								
			110kV Peth - Borgaon - 10.5km (WIP)									
		100kV										
		220kV	220kV Waifale-Ghatnandre-17Km (New)									

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Sr. No.	Particulars	Vol level	2024 - 25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34
C-1	2nd CIRCUIT STRING		110 kv Mayani-Diganchi S/C TO D/C - - 45km	132kV Oglewadi-Mayani 40km (New)	132kV Lonand-Phaltan – 32Km (New)	110kV Mudshingi - Renuka - Ichalkaranji SC To DC- 35km	110kv Ogalewadi-Atit S/C TO D/C - 45km					
		110kV		110 KV Mudshingi-Puikhadi line – 13Km (New)								
		100kV										
C-2	HIGH AMPICITY CONDUCTOR	400kV										
		220kV	Replacement of existing 220 KV Miraj - Mhaisal line 0.4 Deer / Zebra ACSR Conductor by HTLS (ACCC) conductor & Disc Insulator by Long Rod Procelain Insulator - 33 kms approximately. GEC Trench-III for RE evacuation (New)	220kV Talandage - Tilawani Ckt 1 & 2 - 13km								
				132kV Lonand-Satara Road line-35km	132 kV Kamthadi-Shirwal	132kV Lonanad - Shirwal -30km						
		110kV			110kV Mudshingi-Renuka from Tower no. 41 to 110kV Renuka end and 110kV Renuka-Ichalkaranji line							
					110kV Tilawani - Ichalkaranji CKT-I,							
		100kV										
C-3	REPLACEMENT OF CONDUCTOR	220kV										
		132kV										
C-4	CONVERSION OF LINE	220kV			110kV DCDC line from 220kV Pedhambe S/s to 220kV Niwali S/s – 98Km (New)							
		132kV	Conversion 110kV Oglewadi-Borgaon SC to 132kV-30km	110 kV Mudshingi-Kothali & 110 kV Kothali - Radhanagari S/C line to 132 kV D/C line – 25Km (New)	Conversion of 110 KV Puikhadi-Kale to 132 KV DCDC line – 19Km (New)	Conversion of 110kV SCSC to 110kV DCDC line Radhanagari S/s to 132kV Kankavali S/s – 34Km (New)						
			Conversion of 110 kV Vishrambaug - Borgaon -35km									
D-1	CREATION OF NEW LEVEL	400kV										
		220kV		Addition of 2x500MVA, 400/220kV ICT at 765 KV (400kV) Kalamba (PGCIL) S/S. (New)	Addition of 1x100MVA, 220/132kV ICT at 220kV Sawantwadi S/s (New)							
		132kV										
D-2	ADDITION OF ICT	765kV										
		400kV	Alkud (3X167)MVA 400/220kV (Remaining Scope)	Kolhapur (3X167)MVA 400/220kV	Karad (1X500) MVA, 400/220 kV (New)							
		220kV										
D-3	REPLACEMENT OF ICT	400kV										
		220kV										

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Sr. No.	Particulars	Vol level	2024 - 25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34
D-4	TRANSFORMER ADDITION	220kV	220kV Lote S/s (1x50 MVA), 220/33kV	2x100MVA 220/33kV Satara MIDC								
			220kV Five Star MIDC, Kagal (1x 50)MVA 220/33kV	1X50 MVA, 220/33 kV T/F at 220 kV Vita S/S. (New)								
			220kV Tilawani (1x100)MVA 220/33kV									
		132kV	1X50 MVA, 132-110/33kV Kavathe M'kal (MSKVY)									
		110kV	1x25 MVA, 110/33kV TF at 110kV Kale (MSKVY)	1x25 MVA, 110/33kV TF at 110kV Kurundwad								
			1X 50 MVA 132-110/33kV 110kV Sankh (MSKVY)	1X50 MVA 132-110/33kV T/F 110kV Shiroli S/S								
				1X 25 MVA 132-110/11kV 110kV Rethare (MSKVY)								
				1X 50 MVA 132-110/11kV 110kV Mayani (MSKVY)								
		100kV										
D-5	TRANSFORMER REPLACEMENT	220kV		1x (50-25)MVA 220/33kV TF at 220kV Halkarni S/s								
				220kV Dasturi 1x(50-25)MVA 220/33kV								
				220k Satarta MIDC i 1x(50-25)MVA 220/33kV MSKVY								
		132kV	2X (50-25)MVA 132/33 kV TF at 132kV Phaltan	Wai 1X(50-25)MVA 132/33kV	1x(50-25) MVA, 132kV TF at 132kV Kudal S/s	132/33 kV, 2X25 to 132/33kV ,2X50 MVA TF at 132 kV Kundal S/S.(New)						
			1x(50-25)MVA,132/33kV TF at 132kV Shirwal	Dahiwadi 1X(50-25)MVA 132/33kV								
		110kV	1x(50-25) MVA, 110/33kV TF at 110kV Ratnagiri S/s	1x (50-25)MVA, 110/33kV TF at 110kV Jaysingpur s/s	110/33 kV, 2X25 to 110/33kV ,2X50 MVA TF at 110 kV Borgaon S/S. (New)	110/33 kV, 2X25 to 110/33kV ,2X50 MVA TF at 110 kV Dighanchi S/S. (New)						
			110/33 kV, 2X25 to 110/33kV ,2X50 MVA TF at 110 kV Savlaj S/S. (New MSKVY)									
		100kV										
E-1	NEW REACTOR	400kV	New 125 MVAr bus reactor at 400 kV New Koyna (New)									
		220kV										
E-2	REPLACEMENT REACTOR	400kV										
		220kV										
F	CAPACITOR	220kV										
		132kV										
			33 kV / 22 kV Capacitor Bank at Various S/Stns 3 Nos - 15 MVAr (Phase - III) out of 12 nos 125MVAR	15 Nos S/S- 170MVAR (Phase - V)								

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Sr. No.	Particulars	Vol level	2024 - 25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34
A-1	SUB-STATION	765kV										
		400kV		Evacuation arrangement for 2X660 MW generation of Koradi								
		220kV	220/132/33 kV New Pardi District-Nagpur (WIP) (Spill Over)	220/33 kV Kadholi , District Nagpur	220/33 kV Pachgaon (Kuhi), District-Nagpur	220/132/33 kV Yenwa ,District-Nagpur	220/33 kV Nagardhan S/S, Dist. Nagpur (NEW)					
			220/132/33 kV Mankapur District- Nagpur (WIP)									
			220/132/33kV Naghbid , District- Chandrapur Back charged									
		132kV	132/33 kV Jat Tirodi ,Dist- Nagpur (WIP) (Spill Over)	132kV Etapalli (Upgardation from 66kV along with existing 66kV line)	132/33 kV Bazargaon ,District-Nagpur	132/33kV Deori, District- Gondia	132 kV Substation at Goregaon in Gondia District.(New)	132 kv Bhamragarh S/S.(New)	132 kV Kurla near Nagri (under Warora Division) (New)			
			132/33 kV Sironcha, District- Gadchiroli Back charged on 33kv Level 20.06.2022	132kV Kurkheda Dist. Chandrapur								
			132 /33 kV Lendra Park (GIS) District- Nagpur	132/33 kV Mihan, District- Nagpur (BR Sanctioned)								
		110kV										
		100kV										
A-2	ASSOCIATED LINES	765kV										
		400kV										
		220kV	220 kV Uppalwadi - Pardi DC UG cable line 12.5 (Route Km) WIP (Spill Over)	LILO of one ckt of 220 kV Kanhan - Bhandara line for 220 kV Kadholi - 10 km	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	LILO on 220 KV Koradi II-Kaulewada D/C Tr. Line at Nagardhan (NEW)					
			Koradi-II to Mankapur (U/G)-6kms WIP				LILO on 220 kV Kanhan-Bhandara line at Nagardhan (NEW)					
			220 kV DC Uppalwadi-Mankapur U/G-9 Km WIP				LILO on 220 kV Kanhan-Ultratech line. at Nagardhan (NEW)					
			220 kV DC line from 220kV Umred S/s - 46 Km for 220kV Nagbhid WIP (Spill Over)									
		132kV	LILO on Mankapur - Hingana I-for 132 kV Lendra ss - 7.746 kM (O/H-3.25km,U/G-4.5km)	132kV Lakhandur - Morgaon Arjuni @ Kurkheda - 37 Km	LILO on 132 kV Ambazari-Karanja line for 132kV Bazargaon - 300 mtr.	LILO of 132 kV Amgaon - Gondia for 132 kV Deori ss - 41 km		132kV line from Allapali TO Bhamragad				
			Interconnection between 220 kV New Pardi and 132 kV Pardi s/s-2 ckt KM WIP (Spill Over)	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 WIP (Spill Over)									
			132 kV SCDC line from Kistampeth (Telangana) for 132kV Sironcha -35 ckt kms WIP									
		110kV										
		100kV										
		765kV										
		400kV		400 KV D/C TL from GT unit 11 & 12 to 400 KV Koradi I (1.2 Km) (NEW)				Shfting of 400kV Koradi I - Bhusawal line from 400kV Koradi - I to 400kV Koradi - II				
			220kV Koradi -II - Buttibori - III DC Line 105.ckm	220kV DCDC UG cable from GMR S/S to Sai Wardha S/S- 3.5 Km (Evacuation of GMR EMCO Gen) WIP	Interconnection of 220 kV Chandrapur GCR –Sicom line with 220 kV Virur-Gadchiroli. (99 Ckt km(49.5km)) (NEW)		220 KV Sicom-Ballarshah DCDC line (New) SHIFTED FROM 132KV					

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Sr. No.	Particulars	Vol level	2024 - 25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34
B	LINK LINES			220 kV LILO on Koradi II to Butibori III Line (One Ckt) at 220 kV Kalmeshwar S/S (NEW)								
				220 kV LILO on 220kV Chandrapur MIDC - Gadchandur Line at 220 kV Matradevi S/S (NEW)								
			Sicom to Mul-25km WIP	LILO OF 132kV Warud - Bharsingi @ 220kV Karanja -33km	132kV Mul - Ashti DC Line - 55km	LILO on 132 kV Bramhapuri-Sindewahi Line for 132 kV Kolari SS.-10km	132 KV DCDC line from 220 KV Virur-Ashti- Charmoshi- Mul S/S to 220KV Gadchiroli S/S (New)					
			132 kV Hingna-I to Hingna-II- 4 Km WIP (Spill Over)		132kV Ashti Allapalli @ Etapalli DC Line - 33km (newadded)							
		110kV										
		100kV										
C-1	2nd CIRCUIT STRING	220kV										
			2nd ckt stringing of 132kV Ashti-Allapalli -25km	2nd ckt stringing of 132 kV Allapalli-Etapalli (NEW)	Mul – Sindhewahi -30km							
			Wardha - II - Seloo -20km WIP (Spill Over)	132 kV Katol-Bharsingi SC line-38 km (RE) GEC-III	Brahmpuri - Sindhewahi-53km							
				132 kV Bharsingi-Warud line - 33km (RE) GEC-III								
		110kV										
		100kV										
C-2	HIGH AMPICITY CONDUCTOR	400kV										
		220kV		220kV Khaparkheda-Kanhan - 64km								
				220kV Kanhan- Suryalaxmi (NEW)								
				220kV Khaperkheda- Suryalaxmi (NEW)								
				132kV Kalmeshwar-Katol -38km GEC-III (To be checked)								
			132kV Pardi-Besa -9.13km	132kV Kardha - Bhandara 16.41km	132kV Khapri-Butibori DC line-21 km							
			132kV Ambazari- Karanja DC(RE) -53km GEC-III									
		110kV										
		100kV										
C-3	REPLACEMENT OF CONDUCTOR	220kV										
		132kV										
C-4	CONVERSION OF LINE	220kV										
		132kV										
D-1	CREATION OF NEW LEVEL	400kV	1 x 315 MVA 400/220kV at GMR S/s.WIP									
		220kV										
		132kV										

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Sr. No.	Particulars	Vol level	2024 - 25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34
D-2	ADDITION OF ICT	765kV										
		400kV		400 kV Koradi II S/S 3X167MVA 400/220/33 kV ICT								
		220kV		Sicom (1 X 100)MVA 220/132kV			220/132 100MVA ICT-II at 220KV Nagbhid S/S (New)					
D-3	REPLACEMENT OF ICT	400kV										
		220kV		Butibori I 2 X (200-100)MVA, 220/132kV								
				Gadchiroli 1 X (100-50)MVA, 220/132kV								
				Hinganghat 1 X (100-80)MVA, 220/132kV								
D-4	TRANSFORMER ADDITION	220kV		Khaparkheda (1x25)MVA 220/33kV								
		132kV	Khapri (1 X 25)MVA 132/33kV WIP	Hingna I (1 X 50)MVA 132/33kV	132 kV Besa S/S:- 25 MVA, 132/11 kV T/F (NEW)							
			Morgaon Arjuni (1X 25)MVA 132/33kV WIP	Hingna II (1 X 50)MVA 132/33kV	132 kV Pardi S/S):25 MVA , 132/11 kV T/F (Additional) (NEW)							
			Gosikhurd (1X 25)MVA 132/33kV WIP	132 kV Saoner S/S:- 1x50 MVA 132/33 TF (NEW)	132/33 kV Mankapur S/S: 25 MVA, 132/11 kV T/F (NEW)							
				132 kV Mauda S/S 1x50 MVA 132/33 TF (NEW)	Umred 1x25 MVA 220/33kV							
			Gondia (1 X 50)MVA132/33kV	132 kV Sakoli S/S:- 50 MVA, 132/33 kV T/F (NEW)								
				132 kV Amgaon S/S:- 50 MVA, 132/33 kV T/F (NEW)								
				132 kV Besa S/S:- 50 MVA, 132/33 kV T/F (NEW)								
				132 kV Pardi S/S: 50 MVA, 132/33 kV T/F (NEW)								
				132/33 kV Mankapur S/S: 50 MVA, 132/33 kV T/F (NEW)								
				Talegaon (1X 25)MVA 132/33kV MSKVY								
		110kV										
		100kV										
D-5	TRANSFORMER REPLACEMENT	220kV		Kaulewada 2X(50-25)MVA 220/33kV								
				Bharshinghi 2X(50-25)MVA132/33kV								
				Ambhora 2X(50-25)MVA132/33kV (NEW)								
				Kanhan 2X(50-25)MVA132/33kV (NEW)								
				Lakhandur 1X(50-25)MVA132/33kV (NEW)								
				2X(50-25) MVA 132/33KV 132kV Seloo S/s								
		110kV										
		100kV										
E -1	New Reactor	400kV	1x125MVAR Chandrapur Switching									
		220kV										
E-2	REPLACEMENT REACTOR	400kV										
		220kV										
F	CAPACITOR	220kV										
		132kV	1 S/s - 60 MVAR	2 S/S-30MVAR								
		33kV	12 Nos S/S- 110 MVAR									
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Sr. No.	Particulars	Vol level	2024 - 25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34
A-1	SUB-STATION	765 KV										
		400kV		400/220 kV Pimpalgaon District-Nashik (BR- Sanctioned)		400/220kV Malegaon(Saundane)						
		220kV		220/132 kV Nandurbar, District-Nandurbar	220 kV Ghogergaon Dist: Ahmadnagar (NEW)	220/33 kV Jalgaon MIDC Dist: Jalgaon (NEW)	220/132/33kV Akarale	220/33 kV Shirdi Dist: Ahmadnagar (NEW)	Upgradation of 132 kV Shirpur s/s to 220 kV Shirpur Dist: Dhule (NEW)	220/33 kV Saykhindi Dist: Ahmadnagar (NEW)	220/33kV Vilholi Dist: Nashik (NEW)	220/33 kV Dhotre Dist: Ahmadnagar (NEW)
				Upgradation of 132kV IGATPURI - TO 220kV GIS		220/33 kV Asali Dist: Dhule (NEW)		220/33 kV Kone Dist: Nashik (NEW)	220/33 kV Chinchvihire Dist: Ahmadnagar (NEW)			
				220/33 kV Deosane, District-Nashik (BR- Sanctioned)								
				220/132/33 kV Supa MIDC District- Ahmednagar (BR-Sanctioned)								
				220/33kV Shrirampur, District-Ahmednagar (BR- Sanctioned)								
		132kV	132/33kV Dhanora ,District-Jalgaon (WIP)	132kV Navapur Dist-Nandurbar (WIP)	132/33kV Mendhvan, District-Ahmednagar	132/33 kV Shirud Dist: Dhule (NEW)	132/33 kV Akkalkuwa Dist: Nandurbar (NEW)	132/33 kV War Dist: Dhule (NEW)	132/33 kV Patoda Dist: Nashik (NEW)	132 kV Sheware Dist: Nashik (NEW)	132/33 kV Boris Dist: Dhule (NEW)	
				132 /33 kV Kanashi Dist: Nashik (NEW)	132/33kV Pimpalner (MSEDCL/RE)				132/33 kV Ajang Dist: Nashik (NEW)			
				132/33 kV Shirsoli Dist: Jalgaon (NEW)								
		110kV										
		100kV										
A-2	ASSOCIATED LINES	765kV										
		400kV		LILO 400kV A'bad PG-Boisar (PG) DC line at 400 kV Pimpalgaon -3 km		LILO of both ckt. 400kV Dhule-Babhaleshwar D/C Lines at proposed 400kV Malegaon (Saundane) SS -46 km	LILO on both ckt 400kV Sardarsrovar-Dhule D/C line at Balsane - 36 ckm					
		220kV		220 kV DC line by making LILO on 220 kV Dondaicha - Jamde line one ckt – 50 ckt kms @ Nandurbar MIDC		LILO on both circkuits of 220 kV Malegaon-Kalwan Line at new proposed 400kV Malegaon (Saundane) SS-10km	220kV Balsane -Shivajinagar DC line - 36 ckm					
				LILO on 220kV Raymond - Washala @ Proposed 220/132kV Igatpuri 10ckm		LILO on both circkuits of 220 kV Malegaon-Manmad at new proposed Soundane SS-5km	220kV Balsane -Vikharan DC line - 24 ckm					
				220kV M/C line by making both ckt LILO on 220 KV Eklahare-Pimpalgaon Line to 400/220 KV Pimpalgaon S/s-13.762 kms (NEW)		LILO on both ckt of 220kV Malegaon-Satana at new proposed Soundane SS 220kV-Soundane-Satana-15km	220kV MC line by making LILO on 220kV Eklahare-Navsari (ckt 2) line- 2.25km & proposed 220kV Eklahare-Reliance life science line-1.5km to proposed 220kV Akrale ss (NEW)					
				LILO on one circuit of 220kV Nashik (OCR) – Navsari D/C line at proposed 220/33kV Deosane substation – 15 Km		LILO on 220kV Dondaicha - Amalner line @ proposed 220kV Asali S/s. 37km						
				LILO of one circuit of 220 kV Ahmednagar - Bhose DC line at Supa - 20 Km								
				LILO on 220 kV Babhaleshwar – Bhenda (S/C) line at 220 kV Shrirampur S/s. - 5 ckm								

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Sr. No.	Particulars	Vol level	2024 - 25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34
		132kV	LILO on one circuit of 132 kV Yawal – Chopda line at 132 kV Dhanora S/s. (04 Km)	LILO on 132 kV Shamsherpur - Nandurbar line at 220 kV Nandurbar MIDC - 30 ckt kms	LILO of 132kV Babhleshwar - Sangamner @ Proposed Mendhavan - 21km	LILO of 132kV Chalisgaon - Borvihi TSS S/C line @ proposed 132kV Shirud substation - 6km	132kV MC line by making LILO on 132kV Dindori-Ozar line & LILO on 132kV Kalwan- Dindori line at 220kV Akrale S/s- 5.5km-(NEW)					
				LILO on one ckt of 132 kV Nandurbar - Visarwadi line at 220 kV Nandurbar MIDC - 30 ckt kms.	LILO ON 132kV Huoban-Sakri for 132kV Pimpalner S/S-30 km apprx							
				Re-Orientation for Incoming Lines at 132kV Ranwad Substation- 1.036km for Pimpalgaon* (NEW)								
				Conversion of 132kV Supa - Shirur line SCSC upto LILO point of 132kV Wadzire to 132kV DCDC line 7 km								

Sr. No.	Particulars	Vol level	2024 - 25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34
				Conversion of SCSC 132kV Supa - Shirur (LILO at 132kV Wadzire substation) to 132kV MCNB line 2km (from proposed 220kV Supa MIDC to LILO pont of Wadjire line|)								
				132kV Visarwadi to Navapur DC line -20km								
				132kV Kalwan (Bhendi) to Kanashi DC line -27km								
				LILO on one ckt. 132kV Bambhori - Erandol Line at Shirsoli 19km								
		110kV										
		100kV										
B	LINK LINES	765kV										
		400kV				400 kV D/C line from 400 kV Malegaon (Proposed) to 400kV Pimpalgaon (Proposed)						
		220kV	Bhenda - Vishwind DC (GEC)-70km (WIP) (spill Over)									
			Nagar - Nagar via Nimbalak TSS-6km (WIP) (spill Over)	LILO on 132kV Deepnagar - Muktainagar line at 132kV Varangaon Tap to LILO conversion (NEW)	LILO of One circuit of 132kV Amalner - Nardane D/C line on 132kV Amalner - Parola line- 16km	LILO on 132kV Deepnagar-Jalgaon D/C Ckt at 132kV Substation New MIDC Jalgaon (NEW)						
			132 kV Bhabhleshhwar-Rahuri- A'nagar (GEC) 39 ckm (WIP) (spill Over)			132kV D/C Lines from 220/132kV Girnare / Trembakeshwar (New) to 132kV Mhasrul (existing) or LILO of existing 132kV Lines of Nashik 132kV RingMain						
			LILO on 132kV Shivajinagr-Dhule at Sakri -10 ckm (WIP) (spill Over)			LILO on 132kV Sangamner - Khaparale at 220kV Sinner/Khaparale (New)						
			Babhleswar - Kopargaon - 36km (WIP) (spill Over)			LILO on 132kV Akole (existing) - Khaparale (existing) at 220kV Sinner/Khaparale (New)						
		110kv										
		100kV										
C-1	2nd CIRCUIT STRING	220kV										
				220kV SCDC Gangapur-Valve 12 Ckm (NEW)								
			132 kV Eklahare - (L&T HNGL) for 132kV Eklahare - Sinnar -29km (spill Over)	132kV Bhambori - Erandol-26km(Req. FOR MSKVY ALSO)	132kV Alephata-Ghargaon - 21.30km							
				132kV SCDC Dondaicha-Shirpur 53 Ckm (NEW)								
		110kV										
		100kV										
		400kV										
		220kV		220kV Babhaleshwar -GCR DC line 80km	220kV Deepnagar-Viroda (NEW)							
				220kV Dhule-Malegaon -80.5km								
				220kV Gangapur - Satana S/C - 110Km (RE)								
				220kV Gangapur - Shivajinagar S/C - 96Km (RE)								
				220kV Shivajinagar - Malegaon S/C - 110Km (RE)								

Sr. No.	Particulars	Vol level	2024 - 25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34
C-2	HIGH AMPICITY CONDUCTOR			220kV Jamde-Dondaicha Ckt-1 & 2 (NEW)								
			Manmad - Lasalgaon-32km	132kV Deepnagar - Jalgaon (OLD) MIDC S/C - 28Km	132kV Kekatnimbhora-Pahur (NEW)							
				132kV Deepnagar - Jalgaon (NEW) MIDC S/C - 27 Km								
				220/132kV Malegaon - 132kV Malegaon-4.8km								

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Sr. No.	Particulars	Vol level	2024 - 25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34
		132kV		Shivajinagar - Sakri - Dhule - 80km								
				132kV Malkapur-Khadka line via VaragaonTap-47 km (RE)								
				132kV Pimperkhed-Chalisgaon								
				132kV Manmad-Pimperkhed								
				132kV Manmad-Chalisgaon								
				132kV Khaprale-Sinnar								
				220/132kV Kalwan (Bhendi) - 132kV Kalwan- 8km								
		110kV										
		100kV										
C-3	REPLACEMENT OF CONDUCTOR	400kV										
		132kV										
C-4	CONVERSION OF LINE	220kV										
		132kV	Conversion of 132 kV Babhleshwar - Sangamner SCSC line into DCDC -34km	Conversion of SCSC to DCDC of 132 kV Dhule-Sakri line (NEW)	Conversion of 132kV SCSC to DCDC of Yawal-Chopda Line (NEW)							
D-1	CREATION OF NEW LEVEL	400kV										
		220kV			33 kV level creation at 220 kV Amalner s/s (NEW) 2x50MVA 220/33kV	33 kV level creation at 220 kV Nandurbar (Bhaler) s/s (NEW)	Pimpalgaon (2 X 50)MVA 220/33kV (NEW)					
		132kv	2x50MVA 132/33kV at 132kV Ozar									
			Pimpalgaon (1 X 50)MVA 132/33kV									
		33kv										
D-2	ADDITION OF ICT	765kV										
		400kV	Khadka (3X105)MVA 400/220kV (WIP) (spill Over)	Additional 3X167 MVA, 400/220/33kV ICT with extension of RRS upto existing 167MVA, 400/220/33kV Spare ICT unit at 400kV R.S. Dhule (NEW)								
		220kv	Chalisgaon (1X200)MVA 220/132kV (WIP) (spill Over)									
			1X100 MVA 220/132kV ICT 220kV Kekatnimbhora (RE)									
			1X100 MVA 220/132kV ICT 220kV Shivajinagar.									
D-3	REPLACEMENT OF ICT	400kV		Dhule 3 X (167-105)MVA 400/220 kV (third ICT replacement existing 2x500MVA +1x315)	Babhleshwar 3x(167-105)MVA 400/220kV							

Sr. No.	Particulars	Vol level	2024 - 25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34
	T OF ICT	220kv	Manmad 2x(200-100)MVA, 220/132kV (NEW)	220kV Babhaleshwar 1x(200-100)MVA 220/132kV								
				Dondaicha 2x(200-100)MVA, 220/132kV (NEW)								
D-4	TRANSFORMER ADDITION	220kV	Kekatnimbhora (1 X 50)MVA 220/33kV (MSKVY) (NEW)	Raymond (1 X 25)MVA 220/33kV								
				Babhleshwar (1 X 50)MVA 220/33kV (MSKVY) (NEW) MSKVY								
				Kopargaon (1 X 50)MVA 220/33kV (MSKVY) (NEW) MSKVY								
				Shivajinagar(1 X 50)MVA 132/33kV (MSKVY) (NEW) MSKVY								
				Satana (1 X 50)MVA 220/33kV (MSKVY)								
				Sayane (1 X 50)MVA 220/33kV (MSKVY) (NEW) MSKVY								
		132kV	Kopargaon 1x50MVA, 132/33kV TF	1x50 MVA, 132/33kV T/F at 220 kV Sayne .	Nardana (1 X 25)MVA 132/33kV							
				Ghodegaon (1 X 50)MVA 132/33kV	1x50MVA, 132/33kV TF at 132kV Wadjire S/S							
				1x50 MVA 132/33kV Khandke	1x50 MVA 132/33kV Karjat							
				1X100 MVA 220/33kV TF at 220kV Shivajinagar	1x50 MVA 132/33kV Yeola (NEW)							
				Satana (1x50)MVA 220/33kV 132/33Kv	1x25MVA 132/33kV Rashin (NEW)							
				Newasa (1x25)MVA 132/33kV MSKVY	1x25MVA 132/33kV Nampur (NEW)MSKVY							
				Ambad 1x50 MVA 132/33kV	1x50 MVA 132/33kVRahuri (NEW) MSKVY							
				Shevgaon 1x50 MVA 132/33kV T/F	1x25MVA 132/33kV Shrigonda (NEW)MSKVY							
				Samsherpur (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								
				Kharda(1X25)MVA 132/33kV MSKVY								
		100kV										

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Sr. No.	Particulars	Vol level	2024 - 25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34
D-5	TRANSFORMER REPLACEMENT	220kV		2x(50-25)MVA 220/33kV TF at 220kV Bambhori	2x(100-50)MVA 220/33kV TF Babhaleshwar (NEW)							
				Dondaicha 1x(50-25)MVA, 220/33kV	1x(50-25)MVA 220/33kV TF Dhule (NEW)							
				Kundane1x(50-25)MVA, 220/33kV MSKVY								
		132kV		1x(50-25)MVA 132/33kV TF Ramachepimplas	2x(50-25)MVA 132/33kV TF Bhodhwad (NEW)							
				1x(50-25)MVA 132/33kV TF Ghodegaon	1x(50-25)MVA 132/33kV TF Visarwadi (NEW)							
				1x(50-25)MVA 220/33kV TF Manamd	1x(50-25)MVA 132/33kV TF Chandwad (NEW)							
				1x(50-25)MVA 132/33kV TF Sawda	2x(50-25)MVA 132/33kV TF Nimbhora (NEW)							
				2x(50-25)MVA 132/33kV TF Parola	2x(50-25)MVA 132kV TF ECR Deepnagar (NEW)							
				2x(50-25)MVA 132/33kV TF Dharangaon								
		110kV										
		100kV										
E-1	NEW REACTOR	400kV										
		220kV										
E-2	REPLACEMENT REACTOR	400kV	1 X (125 - 50) MVAr, Khadka									
			1 X (125 - 80) MVAr, Babhaleshwar									
			2x(80- 50) MVAr Line Reactors (for Akola & Koradi lines) at 400KV Khadka SS (NEW)									
		220kV										
F	CAPACITOR	220kv										
		132kv										
		33kv	14 No's - 255 MVAr									
			6 Nos. -160 MVAR PAHSE - VI									
	STATCOM					300MVAr at 400KV DHULE						

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Sr. No.	Particulars	Vol level	2024 - 25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34
		765kV										
		400kV			400/220 kV Hinjewadi (MIDC), District- Pune (WIP) (Spill over)							
		220kV	220/33kV Mundhale, District-Pune	220/132 kV Lotewadi (NEW) (RE)	220/22 kV Bavdhan Tal: Mulshi (NEW)	220/33 kV Moshi (Safari Park) (NEW)						
	SUB-STATION		220/33 kV Loni S/S (River view)(NEW)	220/33 kV Marunje / Balewadi,District-Pune	220/33 kV Tathawade (GIS) (YASHADA) (NEW)	220/33 kV Ray Nagar, South Solapur (NEW)						
				220/33kV Watwate	220132//22 kV Knowledge City -Lavale District-Pune							
				220/132/33 kV Waghdari, District-Solapur								
				220kV Talegaon MIDC Phase II								
		132kV			220/22 kV Pride City (Charholi) (NEW)	132/33 kV Wagholi (NEW)						
		110kV										
		100kV										
		765kV										
		400kV			LILO on Lonikand I - Koyna Stage IV at Hinjewadi-							
					a)Jejuri-Winjhar section - 103 ckm (WIP) (Spill over)							
					b) Winjhar-Hinjewadi section -92 ckm (WIP) (Spill over)							
A-2	ASSOCIATED LINES	220kV	LILO on 220kV Lonand-Baramati SC- 5km at Mundhale	LILO on both ckts of 220 kV Solapur PG - Narangwadi DC line at 220 kV Waghdari -40km	LILO on 220kV Chinchwad - Parvati SC line for 220kV Knowledge park ss -5 km							
				LILO on 220kV Chinchwad - Parvati SC line for 220kV Marunje ss -5 km								
				LILO on 220kV Lamboti-Pandharpur line 10km at Watwate								
				LILO on one ckt of 220kV TalegapnPG-Chakan SS-6 km								
		132kV		LILO on both ckt 132kV Wagdari-Tata Renew Solar-5km	LILO on Rahatani –Varasgaon -20km @ Knowledge Park/(Lavale phata)							
		110kV										
		100kV										
		765kV										
		400kV			400kV LILO - Lonikand-I Jejuri at 765kV Shikrapur PG -30km approx							
		220kV	220KV Solapur (PG) - Bale DC Line-40km (WIP)	220kV TalegaonPG-Chakan DC with HTLS conductor - 6km	220kV Pune-III (ISTS-New) (PG) – Nandedcity 220kV D/C line.-60km (Western Region Network expansion scheme)							
			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	Chinchwad Apta for Talegaon (PG) - 36km (WIP)	LILO of Chinchwad - Telco at Chakan II - 9km with HPC conductor							
			220 kV DC line from 765 kV Shikrapur PG to 220 kV Khed City - 18 kms	Urse - Chinchwad -20km (WIP)	LILO of both ckt of 220 kV Jejuri (M) – Phursungi (M) D/C line- 5km along with HTLS conductor at 765/400/220 kV Pune-III (ISTS-New) (PG) S/s with HTLS conductor (twin zebra equivalent) (Western Region Network expansion scheme)							

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Sr. No.	Particulars	Vol level	2024 - 25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34
B	LINK LINES		220 kV DC line from 765 kV Shikrapur PG to 220 kV Ranjangaon S/s using existing corridor - 10 kms	Chinchwad - Kandalgaon - 28km (WIP)	220kV Karjat -Bhigwan line -25km & 220kV Karjat-Kurumbh line- 30km							
			Reorientation of 220 kV Babhleshwar - Ranjagaon ckt & Lonikand - Ranjangaon Ckt at Khed City - 5 kms	1) LILO of Bale – Osmanabad 220kV S/c line at Solapur – PS (PG) (Western Region Network expansion scheme)								
			220 kV DC line on DC towers from 220 kV Jeur s/s to 400 kV Karajat s/s- 52 kms. (WIP)	2) LILO of Osmanabad – Barshi 220kV S/c line at Solapur PS (PG)(Western Region Network expansion scheme)								
			220 kV DC line on MC towers by making LILO on 220 kV Bhigwan-Kurkumb line at 400 kV Karjat S/S-18 kms. (WIP)	Solapur PS – Jeur 220kV D/c line. (Western Region Network expansion scheme)								
		132kV	Zuari - Chettinad - 2km (WIP)	Conversion Chinchwad-Talegaon 100kV tower line to 132kV- 15km	LILO of Indapur -Ujani at Lonideokar- 15km	Conversion of SC to DC towers of 132 kV Phursungi-Kamthadi line (NEW)	132kV Lonikand II to John Deere & Whirlpool SC to DC from Loc No 116 to 207 (New scheme)	Upgradation of 110kV Pandharpur - Puluj - Degaon- into 132kV -55km				
				NCL-Rahatani- 6km	132 kV Walchandnagar - Bawda SCDC line - 35 kms on 132kV Walchandnagar-Indapur line(balance scope)	LILO on 132kV Bekart - Ranjangaon Ckt-2 at 132kV Whirlpool S/Stn (NEW)						
				Conversion of 132 kV Theur - Yavat - Daund SC to DC line (Old line)- 50km-(WIP) (Spill over)	NCL-Kothrud---Phursungi-18km							
				132kV Kumbhari-Solapur MIDC SCDC (WIP)								
					LILO on 132kV Mahindra forge-Chakn at 220kV Chakan MIDC							
		110kv										
		100kV										
C-1	2nd CIRCUIT STRING	220kV	Tap to LILO Volks Wagon - 3km (to be confirm from ORC) (Spill over)	220 kV ISMT -Jejuri Tap line	Biltgraphic - Bhigwan-8 km							
				220kV Lamboti-Vairag								
		132kV	Bale -MIDC Solapur- 16km	Puluj-Loknete co-gen (new scheme)	Tap to LILO at 132 kV Bajaj Auto (Chinchwad - Chakan)-5km	2nd ckt stringing of 132 kV Rahatani-Varasgaon line (36 kM) (New)						
				Degaon –Mandrup (GEC)-15km	Jeur-Parewadi	132kV Mandrup-Karajgi						
				Purandwade Tap on Bawada Nira Bhima-Walchandnagar-5km	2nd circuit stringing of 132kV Akkalkot –Karajgi line (NEW)	132 kV Akkalkot -Karajgi						
				Velapur - ShankarNagar-13km	Naldurg - Waghdari- 35km							
				100kV Pudumjee-Talegaon	Malinagar to Velapur- 20km							
		110kV										
		100kV										
		400kV		HTLS conductor of 400 kV Talegaon (PG) - Chakan (NEW)	HTLS conductor of 400 kV Lonikand - Talegaon (PG) (NEW)							
				HTLS conductor of 400 kV Lonikand - Chakan (NEW)								
			HTLS conductor of 220 kV Lonikand II- Bhosari I(NEW)	HTLS conductor of 220 kV Lonikand II- VSNL (NEW)	220kV Phursungi-Parvati							
			HTLS conductor of 220 kV CHAKAN - BHOSRI (NEW)	HTLS of 220kV VSNL-KHADKI- CENTURY ENKA- BHOSARI-I) (NEW)	HTLS conductor of 220 kV Jejuri - Kondhwa (NEW)							

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Sr. No.	Particulars	Vol level	2024 - 25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34
C-2	HIGH AMPICITY CONDUCTOR	220kV	HTLS conductor of 220 kV CHAKAN - CHINCHWAD II (NEW)	HTLS of 220 kV BHOSRI- I & II Line (NEW)	HTLS of 220kV Alephata-Babhleshwar line. (69km) (NEW)							
					HTLS of 220 kV Lamboti-Pandharpur and Lamboti – Karkamb Line (NEW)							
					HTLS of 220kV Talegaon Ambi to PGCIL-I & II line. (NEW)							
		132kV	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.	HTLS of 132 kV Akkalkot-Chetak – Gokul –South Solapur – Bale line (NEW)	HTLS of 132 kV Malinagar-Bawada Line (NEW)							
			132kV Mundhwa-Magarpatta radial ckt 2.5km & Mundhaw-Phursungi ckt via Magarpatta tap -14km		HTLS of 132 kV Pandharpur-Nimboni-Mangalwedha & Pandharpur-Mangalwedha							
		110kV										
		100kV										
C-3	REPLACEMENT OF CONDUCTOR	220kV										
		132kV										
C-4	CONVERSION OF LINE	220kV										
		132kV										
D-1	CREATION OF NEW LEVEL	400kV										
		220kV			Knowledge Park (2X100)MVA 220/132kV							
		132kv										
		33kv										
D-2	ADDITION OF ICT	765kV										
		400kV		400kV Lamboti (3X167)MVA 400/220kV	400kV JEJURI (3X167)MVA 400/220kV							
				400kV Lonikand-I S/S (3X167)MVA 400/220kV (NEW)								
				Lonikand II 1x200MVA 220/132kV ICT								
D-3	REPLACEMENT OF ICT	400kV										
		220kV	Jeur 1X(200-100)MVA 220/132kV	Lonikand II 2X(200-100)MVA 220/132kV								
			Walchandnagar 1X(200-100)MVA 220/132kV	Chakan Phase II 2X(200-100) MVA 220/132kV								
			Pandharpur 1X(200-100)MVA 220/132-100kV	Alephata 2X(200-100)MVA 220/132kV (NEW)								
D-4	TRANSFORMER ADDITION	220kV	Lonikand (1X50)MVA 220/22kV (WIP)	Nanded City(1x50)MVA 220/22kV (WIP)	400kV Chakan (1x50)MVA 220/22kV							
					Shirsuphal (1x25)MVA 220/33kV							
					Jejuri(1x50)MVA 220/22kV (NEW)							
					Century Enka(1x50)MVA 220/22kV (NEW)							
					Ranjangaon(1X50)MVA 220/22kV							
					Pirangut (1X50)MVA 220/22kV	Hinjewadi II (1x50) MVA 220/22kV						
					Bridgestone (1x50) MVA 220/33kV							
					Urse (1X50)MVA 220/22kV							
		132kV		Sanaswadi (1x50)MVA 132/33kV	Rahatani (1x50)MVA 132/22kV							
				Mohol (1x50)MVA 132/33kV (NEW)	Sangola (1x50)MVA 132/33kV (NEW)							
				Manegaon(1x50)MVA 132/33kV (NEW) MSKVY	Someshwarnagar (1x50)MVA 132/33kV (NEW)							

Sr. No.	Particulars	Vol level	2024 - 25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34
		132kV		Madrup(1x50)MVA 132/33kV (NEW) MSKVY	Kurkumbh (1x50)MVA 132/33kV (NEW)							
					Janai (1x25)MVA 132/33kV (NEW)							
					Nimboni (1x25)MVA 132/33kV (NEW)							
		110kV										
		100kV										
D-5	TRANSFORMER REPLACEMENT	220kV	Tembhurni 1 X (50-25)MVA 220/33kV (WIP)	Telco 2X (100-50)MVA 220/22kV								
			Bhigwan 1 X 50-25MVA 220/33kV	Talegaon Ambi 2X (100-50)MVA 220/23kV (NEW)								
			Vairag 2 X 50-25MVA 220/33kV									
		132kV		Purandvade 1 X (50-25)MVA 132/33kV (MSKVY)	2X (50-25)MVA 132/33kV Karajgi (NEW)							
		110kV										
		100kV										
E-1	NEW REACTOR	400kV	1X125 MVAr Chakan									
		220kV										
		400kV	1x(125-50)MVAr Lonikand I									
		220kV										
F	CAPACITOR	220kv	6 Substations- 110MVAr (Capacitor Bank Phase V)									
		132kv	585MVAr ,50 S/S under Solapur Circle (NEW) Capacitor Bank Phase VI									
		33kv	1010MVAr ,50 S/S under Pune Circle (NEW) Capacitor Bank Phase VI									
			3 Substations- 30 MVAr Capacitor Bank Phase III									
	STATCOM	400		300MVAR @ 400kV Lonikand-I								

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Sr. No.	Particulars	Vol level	2024 - 25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34
A-1	SUB-STATION	765 Kv										
		400kV		400/220 kV Kalwa -II GIS with 2x500 MVA, 400/200kV ICT (Western Region Network expansion scheme)	400/220kV Velgaon, District-Palghar (BR- Sanctioned)							
				400/220 kV Padgha split GIS with 2x500 MVA, 400/200kV ICT (Western Region Network expansion scheme)								
		220kV	220/33 kV New Timber Market GIS / Panvel-II District- Raigad (WIP) (spill Over)	220/22 kV Mankoli / Bhiwandi, District-Thane (WIP) (spill Over)	220/33 kV Panchanand/Taloja District-Raigad (BR- Sanctioned)	220/22 kV Palaspe, District-Raigad	220/33 kV Vimalwadi NEW	220 kV Rohinjan (Taloja) NEW	220 kV Lonere NEW	220/33 kV Uran (Dronagiri) NEW		
				220/33 kV Abhitghar (Wada), District-Thane (WIP) (spill Over)	220/22 kV Dhokali/Pachpakhadi, District-Thane	220 kV Suraksha City NEW			220/33 kV Kon NEW			
				220/22 kV Kaman (Vasai)/Kharbahv District- Palghar	220/22 kV Virar (East) (Kopari)/HDIL District-Palghar	220 kV Pale S/s						
				220/22 kV Virar (West) / Chikhal Dongri District- Palghar (BR- Sanctioned)	220/22 kV Manor, District-Palghar							
		132kV	132/33 kV Jawhar, District-Palghar (WIP) (spill Over)		132/33 kV Dapchari,District- Palghar (BR- Sanctioned)							
		110kV	100/22 kV Gaikwad Pada (Ulhasnagar) District- Thane (BR-Sanctioned)		110/22 kV Urane Puranik, District-Thane		110/33 kV Nagaon NEW					
		100kv					100kV Dighi port NEW	100/22 kV Diveagar NEW				
		400kV			LILO on Tarapur-Kudus II DC line at Velgaon - 20km							
					LILO near Loc. 1134 on 400 kV Kalwa-Padghe Ckt I at 400 kV Estela Mukund subject to conversion to HTLS of 400 kV Padghe-Kalwa D/C-4 km							
					LILO near tower Loc. No. 176 of 400 kV Kalwa – Kharghar line at 400 kV Estela Coromandel S/s – 5 km							
		220kV	LILO on 220 kV Kandalgaon-Kharghar U/G for 220 kV Timber Market - 3km (spill Over)	Reorientation of existing 220 kV lines at Kalwa II S/s	LILO Boisar-Borivali SC -10km at Velgaon	LILO of 220 kV Kamba-Vasai S\c at 220 kV Suraksha City- 0.625km						
				Reorientation of existing 220 kV lines at 400kV Padgha split S/s	LILO on Dahaun-Ghodbuder DC-10km at Velgaon	LILO on 220 kV Kharghar - Kandalgaon line at 220 kV Palaspe S/s-5km						
				LILO on 220 kV Kalwa-Bapgaon for 220 kV Mankoli - 300 m (WIP) (spill Over)	LILO of 220 kV Dahanu-Versova SC - 5km at Velgaon	220 kV DC line from 220 kV Jambhul S/s to Pale S/s- 25km						
				LILO on 220 kV Padghe-Wada line for 220 kV Abhitghar - 9 km) (WIP) (spill Over)	LILO of 220 kV Boisar-Versova SC-5km at Velgaon							
				LILO on 220kV Kamba-Vasai for 220kV Kaman S/S-1km	LILO of 220 kV Dahanu-Ghodbunder DC- 5km at Velgaon							
				LILO on 220 kV Boisar (PG)-Vasai line for 220 kV Chikhal Dongari - 4 km	LILO of 220 kV Boisar-Borivali SC - 5km at Velgaon							
					LILO on 220 kV Temghar - Colourchem line at 220 kV Dhokali /PachpakhdaiS/s- 5km							
					LILO on 220 kV Kalwa-Taloja UG cable for 220 kV Panchanand/Taloja - 0.5 km							
					LILO on 220 kV Boisar (PG)-Vasai on D/C / M/C towers for 220 kV Kopari - 5 km							
					220 kV DC line from 220 kV Boisar PG S/s to Manor S/s-30km							
		132kV	132 kV D/C Suryanagar/Kawdas-Jawhar line 40 km (WIP) (spill Over)		132 kV DC Boisar II - 132 kV Dapchari - 25km							
			LILO on one ckt of Boisar MIDC-Dahanu line at Palghar- 15 km (WIP) (spill Over)									
		110kV										
		100kV	LILO on 110 kV Kalyan (TPC) - Ambernath (TPC) UG cable for 110 kV Gaikwad Pada - 1 km		LILO on 110 kV Bhivpuri - Neral line at Urane Puranik-15km							
			LILO at Panvel end on both ckt of UG cable sec. of 220 kV Kandalgaon - Kharghar line for Khandeshwar - 3 km (WIP) (spill Over)									
		765kV										

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Sr. No.	Particulars	Vol level	2024 - 25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34
B	LINK LINES	400kV	400 kV D/C Babhaleshwar-Kudus line- 200 km (WIP) (spill Over)	Provinding additional source to 400kV Kalwa SPLIT FROM 400kV Padgha split -Conversion of 400kV SC to DC Kalwa-Padghe Ckt I & II- 52km / 220KV Kalwa- Bapgaon and AKP- Nasik D/C line conversion into 400KV and 220KV M/C line from Padgha to Kalwa. (NEW) (Western Region Network expansion scheme)								
			LILO on both ckts of 400 kV Tarapur-Padghe line at Kudus- 15 km (spill Over)				LILO of 400 kV Talegaon-Kalwa, 400 kV Talegaon-Kharghar and 400 kV Padghe-Nagothane D/c Line for 400 kV Neral swtiching					
		220kV	Second source to 220kV Nalasopara from 400kV PGCIL S/S by Bay shifting work at 220kV Boisar II S/S (WIP) (spill Over)	220kV Nagothane-Wadkhal ckt 3 & ckt 4 -27km	LILO on 220kV Bombay Dyeing-Sahara at 220kV Tambati S/S. -1km	Scheme for additional source at 220kV Vasai S/S by LILO of Adani Line and 220kV GIS. (NEW)						
			LILO on 220 kV Tarapur-Borivali & Boisar- Ghodbunder line at Kudus - 10 kms (WIP) (spill Over)	Scheme for LILO at 220kV Nalasopara S/S from 220kV Ghodbunder Line	Scheme for additional source at 220kV Wada & 220kV Bhaveghar S/S from 400/220kV PGCIL Boisar Substation (NEW)							
			LILO on 220 kV Padghe-Wada & 220 kV Kolshet-Wada at 400 kV Kudus - 10 km (WIP) (spill Over)	LILO of both circuits of Boisar (M) – Velgaon (M) 220 kV D/c line at Boisar-II (ISTS-New) (PG) S/s. (Western Region Network expansion scheme)	Second source to 220 kV AKP S/S from 220kV Kalwa Substation. (NEW)							
					link line between 220KV Colourchem and 220kV Kolshet (NEW)							
			LILO of 132kV Boisar-Palghar I for 132kV Jindal and 132kV Viraj by using multi-circuit configuration at Loc no. 21 (NEW)									
		110kv										
		100kV	100kV MUSCO-Khopoli -3km (WIP)		LILO of 100 kV Ambernath – Mohone at Jambhul - 5km							
			100kV Khopoli-Kalwa from Loc 64 to 120) -17 km									
			LILO on 100kV Jite-Thal at GAIL -3km (NEW)									
			100kV MUSCO-Bhushan Steel (NEW)									
C-1	2nd CIRCUIT STRING	220kV										
		400kV										
		110kV										
		100kV										
C-2	HIGH AMPICITY CONDUCTOR	400kV	400kV Kalwa-Padgha ckt -I-52km (WIP)	400kV 2nd D/c (New) line from Padghe (M) (Split, Sec B) to Kalwa (M) (Split, Sec B) with twin HTLS conductor (minimum capacity of 2100MVA per ckt at nominal voltage).(Western Region Network expansion scheme) (Western Region Network expansion scheme)	400kV Kalwa-Talegaon, 400kV Kalwa-Kharghar and 400kV Kharghar Talegaon Line by HTLS conductor. Along with bay work (NEW)							
				Reconductoring of the balance portion of Padghe (M) – Babhaleshwar 400kV D/c line (i.e. from Padghe(M) to LILO point) using twin HTLS conductor with a minimum capacity of 1700 MVA along with upgradation of 400kV bays at Padghe (M) (required in matching time-frame of the LILO of Padghe (M) - Babhaleshwar (M) 400kV D/c line at proposed 765/400/220 kV Boisar-II (ISTS-New) (PG							
		220kV	Padghe-Jambhul - 20 km & Jambhul-Anandnagar & Padghe-Pal- 22km	220kV BoisarPG-Nalasopara-57km (WIP)	220kV PGCIL - Vasai Line & 220kV Kamba - Vasai Line (NEW)							
			220kV Kalwa-Apta,(39km) Kalwa-Taloja (25km) & Apta-Taloja (25km) link	220kV Nalasopara-Padgha line -54km (WIP)	220kV Padghe - Kamba D/c line -25km							
				Kalwa-Colorchem line =14.4 km								
				220kV Colorchem-Temghar line -17.3 km								

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Sr. No.	Particulars	Vol level	2024 - 25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34
				220kV Kalwa-Temghar line -16.5km								
		132kV										
		110kV	100kV Apta-Bhokarpada 7.5km & Bhokarpada-Khopoli -19km									
			100kV Padghe -Mohane line - 14.5km & Mohane-Ambernath link -10km									
			100kV Padghe-Ambernath line -18 km									
			100kV Pal-Dombivali ckt I - 6km & ckt II - 6km									
			100kV Kalwa-Standard -8.7km									
			100kV Kalwa-NOCIL D/C line - 17.5km									
			100kV Kalwa-Reliable-Siffy-Standard, -9.65 km									
			100kV NOCIL-Standard -1.2km									
		100kV										
C-3	REPLACEMENT OF CONDUCTOR	220kV										
		100kV										
C-4	CONVERSION OF LINE	220kV										
		132kV		Conversion of 100kV Vashi Substation to 220kV Substation by conversion of 100 kV Lines to 220kV Lines from 220kV Pawane S/s to Vashi Substation (NEW)								
D-1	CREATION/ ELEMINATION OF NEW LEVEL	400kV										
		220kV	Elimination of 100kV Level from 220kV Kolshet Substation and providing 2X100 MVA, 220/22 kV Transformer in place of 220/100 kV ICTs & Additional, 1 x 50 MVA 220/22 kV T/F at 220 kV Kolshet S/S (NEW)									
		132kv	2x100MVA 220/132kV ICT at 100kV GAIL									
			Jambhul (1 X 50)MVA 220/22 kV (WIP)									
D-2	ADDITION OF ICT	765kV										
		400kV	3x167 MVA 400/220kV ICT at Nagothane (New scheme)									
			3x167 MVA 400/220kV ICT at Kharghar (ICT-IV)									
			1x500MVA 400/220kV ICT at Padghe VI -ICT									
				220/100kV, 100 MVA ICT at 220kV Tambati SS (NEW)	1 no. of 200 MVA ICT at 220kV Boisar-II S/S. (NEW)							
D-3	REPLACEMENT OF ICT	400kV	Kharghar 1 x (500-315)MVA 400/220kV	Nagothane 1 x (500-315)MVA (1st ICT)								
			Nagothane 1 x (500-315)MVA 400/220kV (Second ICT)	Kharghar 1 x (500-315)MVA 400/220kV								
		220kv										
D-4	TRANSFORMER ADDITION	220kV	Vasai 1x50MVA 220/22kV	Airoli Knowledge Park(1X 50)MVA 220/33kV	220/33kV 50MVA TF-5 at 400kV RS, Kharghar (NEW)							
			Nerul (1X100)MVA 220/33-33kV	Sonkhar (1X50)MVA 220/33kV	(2X50) MVA T/F 220/33kV at 220kV Palghar S/S. (NEW)							
			Nalasopara(1X 100)MVA 220/22kV	Baapgaon (1X50)MVA 220/22kV								
			Anandnagar (1x50)MVA 220/22kV	1x50 MVA, 220/22 kV transformer at Vasai S/S (NEW)								
			ONGC Panvel(1X50)MVA 220/22kV	Addition of 1 x 100 MVA 220/22kV T/F at 220kV Mulund Substation (NEW)								

VASHI

Sr. No.	Particulars	Vol level	2024 - 25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34
		132kV		1 no. of 50 MVA T/F 132/33kV at 132kV Dahanu S/S. (NEW)								
		110kV	Neral (1x25)MVA 110/22kV (WIP)									
		100kV	Mohane (1X50)MVA 100/22kV	Bhokarpada (2X25) MVA 100kV (NEW)								
			Ambernath (1x50)MVA 100/22kV									
			Nocil (1X 50)MVA 100/22kV (WIP)									
D-5	TRANSFORMER REPLACEMENT	220kV	Mahape 2X(100-50)MVA 220/22-22kV	2 nos. of 80 MVA T/F by 100 MVA T/F at 220kV Nalasopara S/S. (NEW)								
			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									
		132kV		Boisar MIDC 1X(50-25)MVA 132/33kV								
		110kV										
		100kV		Patalganga 1X(50-25)MVA 100/22 kV								
		400kV		(1 X 125 MVAr at Kudus)								
		220kV										
		400kV		1X125 MVAR AT 400Kv Kharghar								
				1X125 MVAR AT 400Kv Nagothane								
		220kV										
F	CAPACITOR	220kv										
		132kv										
		33kv	Capacitor Banks at 22 substations under Kalwa & Panvel circles at 220kV,110kV,33kV & 22kV levels									
	STATCOM				300MVAR at 220KV BOISAR							
	Special Project HVDC				Upgradation of existing HVDC control & Protection of C'Pur-Padghe HVDC Bipole link							
	VSAT Captive Hub		VSAT Captive Hub									

Special schemes considered for inclusion in STU Plan 2024-25 to 2033-34

Sr. No.	Name of Scheme	Estimated Cost in Cr.	Approval details	Remarks	Year
1	Design, supply, installation, Testing, & Commissioning of Satation Data Concentrator (SDC)/ Sation RTU/ Gateway with expandable IO modules, MFM and other allied equipment for the Visibility of 132/110/100kV msetcl substation to SLDC & ALDC along with comprehensive Annual maintenanace contract for 05 years after 02 years warranty period. BR.No.157/23 Dt.17.10.2022	102.5	BR.No.157/23 Dt.17.10.2022		2024-25
2	Procurement & Installation of CCTV (Centralized Visual Advance Monitoring System CVAMS) at various critical 220 kV S/s & 400 kV Karjat S/s	83.61	B.R. No. 157/15 dtd. 17/10/2022	1) MERC approval received on 13/03/2024.	2024-25
				2) GCC ratified the scheme for inclusion in STU Five Year Plan during 8th GCC meeting held on 04/12/2023.	2024-25
3	Procurement of Remote Airborne Inspection & Scanning System (RAISS) along with all the required accessories for Asset Monitoring.	33.87	B.R. No. 157/13 dtd. 17/10/2022	1) GCC ratified the scheme for inclusion in STU Five Year Plan during 8th GCC meeting held on 04/12/2023.	2024-25
				2) MERC approval awaited.	
4	Procurement of 04 nos. of Van Mounted Under Ground EHV Cable Fault Locator System to detect & locate the faults in underground cables in	32.95	B.R. No. 162/25 dtd. 08/08/2023	1) GCC ratified the scheme for inclusion in STU Five Year Plan during 8th GCC meeting held on 04/12/2023.	2024-25
				2) MERC approval awaited.	
6	Procurement of 03 Nos of PTRs & 02 Nos of ICTs as emergency critical spares for Vashi Zone in addition to spare policy	36.15	B.R. No. 163/12 dtd. 21/09/2023	1) Submitted to STU after Prudence Check inputs. Approval awaited	2024-25
7	VSAT	**232.23**			2024-25
	Total for FY 2024-25	***521.31***			

5	Procurement of 06 sets of Emergency Restoration System (ERS) comprising of 10 towers each (Suspension Towers - 6 nos. and Angle Towers - 4 nos.) for MSETCL.	176.29	B.R. No. 166/47 dtd. 19/01/2024	1) Submitted to STU for Prudence Check. Approval awaited. 2) Recommended by MTC for submission to GCC for approval during 9th MTC meeting held on 13/03/2024.	2025-26
7	Procurement of 12 Nos of 25MVA 132/11 kV PTRs & 02 Nos110/11 kV of PTRs as emergency critical spares for all zones of MSETCL	63	B.R. No. 166/24 dtd. 19/01/2024	1) STU has forwarded the DPR after all prudence check inputs. To be submitted to MERC.	2025-26
8	Procurement of balance 04 Nos of ICT & 02 Nos of PTR of various ratings along-with required New Uninhibited High Grade Mineral Insulating Oil, out of earlier sanctioned scheme of procurement of 21 nos. of ICTs & Power Transformers as emergency/critical spares in all zones of MSETCL	74.75	B.R. No. 167/48 dtd. 04/03/2024	1) Submitted to STU after Prudence Check inputs. Approval awaited	2025-26
	Total for FY 2025-26	***314.04***			

TPC-T STU Plan FY 2023-24 to 2032-33

Sr. No.	Particulars	Voltage level	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33
A	Substation	400 kV	----	----	----	400 kV LILO station at Tata Power Vikhroli plot **Part of :** Establishing connectivity between North and South Mumbai by 400 kV Phase I : Creation of 400 kV level at existing Dharavi RSS with 400 kV Tata Power Vikhroli - Dharavi S/c line.	----	----	----	----		----
		220 kV	----	----	----	Installation of new 220/33 kV RSS at Vile Parle	Installation of new 220/33 kV Worli S/S	Installation of new 220/33 kV New Dharavi S/s	Installation of new 220/33 kV MbPT S/S	Installation of new 220/33 kV Goregaon S/S	----	----
			----	----	----	----	----		Installation of new 220 kV/33 kV RSS at Panvel	----	----	----
			----	----	----	----	----	----	Installation of new 220/33 kV Ghatkopar Pantnagar S/S	----	----	----
		110 kV	----	----	Installation of new 110 kV / 22 kV RS at Badlapur	Installation of new 110 / 22 / 11 kV S/s at Mulashi	Installation of new 110 kV/22 kV RSS at Ulhasnagar (New scheme)		----	----	----	----
			----	----	----	----			----	----	----	----
			----	----	----	----	Installation of 110 / 22 kV S/s at Shedung	Installation of new 110 kV / 33 kV Lodhivali S/S	----	----	----	----
			----	----	----	----	----	----	----	----	----	----
	Associated Lines	400 kV	----	----	----	LILO of 400 kV MSETCL Kharghar - KVTPL Vikhroli line at proposed switching station at Tata Power Vikhroli plot. (1.2 X 2 kM) Part of : Establishing connectivity between North and South Mumbai by 400 kV Phase I : Creation of 400 kV level at existing Dharavi RSS with 400 kV Tata Power Vikhroli - Dharavi S/c line.		----		----		
			----	----	----	400 kV Tata Power Vikhroli LILO Station - Dharavi line (11.3 km) Part of : Establishing connectivity between North and South Mumbai by 400 kV Phase I : Creation of 400 kV level at existing Dharavi RSS with 400 kV Tata Power Vikhroli - Dharavi S/c line.		----	----	----		----
		220 kV	----	----	Upgradation and Augmentation of existing 110 kV Powai RSS by creation of 220 kV level: AEML Chandivali - TPCT-T Powai D/C line	Installation of new 220/33 kV Vile Parle S/S : 220 kV D/C Versova-Vile Parle U/G cable- 4 km	Installation of new 220/33 kV Worli S/S : LILO of 220 kV Dharavi-Mahalaxmi Line by U/G cable at Worli - 2 km	Installation of new 220/33 kV New Dharavi : LILO of 220 kV Trombay Dharavi Lines at New Dharavi RS - (2.0 km)	Installation of new 220/33 kV MbPT S/S : LILO on 220 kV Trombay-Carnac at MbPT (D/C) U/G cable - 2 km	Installation of new 220/33 kV Goregaon S/s : 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	----	----
			----	----	----	Upgradation of 110 kV Kalyan RSS to 220 kV with connectivity to 220 kV PAL S/s (MSETCL) : 1) New 220 kV Kalwa – Kalyan line (16 km) 2) 220 kV Kalwa – PAL – Kalyan line for estabmishing connectivity with MSETCL PAL (18 km)	220 kV level creation at Vikhroli S/s : 220 kV Bus will be formed by utilizing 220 kV feeders for ICTs from KVTPL		Installation of new 220 kV Panvel S/s : LILO of 220 kV Bhira-Karanjade lines at 220 kV Panvel RSS.	----	----	----
			----	----	----	----	----	----	Installation of new 220/33 kV Ghatkopar Pantnagar S/S : LILO of any of 220 kV Trombay Vikhroli line	----	----	----
			----	----	----	----	----	----	Upgradation of existing 110 kV Parel S/s by creation of 220 kV level : 220 kV Parel Mahalaxmi line and LILO of Trombay Carnac 5 or 6	----	----	----
		110 kV	----	----	Installation of new 110 kV / 22 kV RS at Badlapur LILO of 110 kV Bhivpuri Ambernath or 110 kV Ambernath Neral line	Installation of new 110 / 22 / 11 kV S/s at Mulashi: LILO of any one line of 110 kV Bhira Davidi or Khopoli Davdi line (0.5 X 2 kM)	Installation of new 110 kV Ulhasnagar S/s LILO of 110 kV Bhivpuri Ambernath or 110 kV Ambernath Neral line		----	----	----	----
			----	----	----	----		Installation of new 110 kV Lodhivali S/s : LILO of 110 kV Khopoli-Bhokarpada line (1.5 km)	----	----	----	----
			----	----	----	----	Installation of 110 / 22 kV S/s at Shedung : LILO of 110 kV Khopoli Karanjade or Bhokarpada Karanjade line		----	----	----	----
			----	----	----	----	----	----	----	----	----	----
			----	----	----	----	----	----	----	----	----	

C-1	Link Lines	765 kV	----	----	----	----	----	----	----	----	----	
		400 kV	----	----	----	----	----	----	----	----	----	----
		220 kV	Interconnection via Double circuit 220 kV lines from Tata Waghivli S/S to MSETCL's Waghivli S/S (Work completed)	----	----	----	----	----	----	----	----	----
		110 kV	----	----	----	----	----	----	----	----	----	----
			----	----	----	----	----	----	----	----	----	----
C-2	2nd ckt stringing	220 kV	----	----	Augmentation and strengthening of 220 kV South Mumbai Transmission Network by construction of additional 220 kV Dharavi – Mahalaxmi line.	Augmentation and strengthening of 220 kV South Mumbai Transmission Network by construction of additional 220 kV Mahalaxmi - Backbay line.		----	----	----	Upgradation / augmentation of South Mumbai 220 kV Transmission Network by installing Additional 220 kV Carnac Backbay cable 6 km (New scheme)	----
			----	----	----	Enhancing Transmisison network reliability by Loop In Loop out of 220 kV Kalwa Salsette 5 line at MSETCL Bhandup S/s.	----	----	----	----	----	----
		110 kV	----	----	Augmentation and strengthening of 110 kV Bhira Khopoli Corridor by construction of additional 110 kV Bhira Khopoli Line line.	Augmentation and strengthening of 110 kV Trombay Mankhurd Corridor by construction of 110 kV Trombay Mankhurd line.	----	----	----	----	----	----
			----	----	----	----	----	----	----	----	----	----
C-3	Reorientation	220 kV	----	----	----	----	----	----	----	----	----	----
		110 kV	----	----	----	----	----	----	----	----	----	----
			----	----	----	----	----	----	----	----	----	----
C-4	HTLS/ Replacement of Conductor	220 kV	----	----	----		Augmentation of 110 kV Bhivpuri Kalyan corridor to 220 kV		Upgradation of 220 kV Trombay-Carnac -5 and 6 Oil Filled cables by higher capacity XLPE cable	Upgradation of 220- kV Trombay-Dharavi 5, 6 Underground oil filled cable section by higher capacity XLPE cable - (3 km each)	----	----
		110 kV	Replacement of 110 kV Trombay Carnac # 3 Oil Filled cable by XLPE cable (Work completed)	Replacement of 110 kV Parel-Mahalaxmi#1 U/G Oil Filled Cable by 220 kV Rated XLPE cable - 5 km (Work is in progress)	Upgradation of 110kV Parel - Grant Road Cable by replacing oil filled EHV cable with higher capacity 110 kV, 1600 sqmm XLPE cable.	Upgradation of 110kV Carnac - Grant Road Cable by replacing oil filled EHV cable with higher capacity 110 kV, 1600 sqmm XLPE cable (cable length 11 km)	----	----	----	----	----	----
			Replacement of 110 kV Trombay Parel # 3 Oil Filled Cable XLPE Cable (Work completed)	----	----	Upgradation of existing 110 kV Khopoli Karanjade corridor by replacing existing conductor by higher capacity conductor along with Tower Replacement	----	----	----	----	----	----
			----	----	----	----	----	----	----	----	----	----
D-1	Creation of New Level	400 kV	----	----	----	Establishing connectivity between North and South Mumbai by 400 kV Phase I : Creation of 400 kV level at existing Dharavi RSS with 400 kV Tata Power Vikhroli - Dharavi S/c line.		----		----		
			----	----	----	----		----	----	----	----	----
		220 kV	----	----	Upgradation and Augmentation of existing 110 kV Powai RSS by creation of 220 kV level	Upgradation of 110kV Kalwa-Kalyan line to 220kV and providing connectivity to 220kV MSETCL PAL S/S and 220 kV Kalyan RSS (New scheme)	Upgradation of 110 kV Vikhroli S/s by creation of 220 kV Voltage level (New scheme)	----	Upgradation of existing 110 kV Parel S/s by creation of 220 kV level : (New scheme)	Upgradation of 110 kV Kolshet S/s by creation of 220 kV Voltage level (New scheme)	Upgradation of existing 110 kV Ambernath S/s creation of 220 kV Level (New scheme)	Upgradation of 110 kV Mankhurd S/s by creation of 220 kV level (New scheme)
		110 kV	----	----	----	----	----	----	----	----	----	----
		33 kV	----	33 kV Level creation at Karanjade for additional feeders for MSEDCL (Work in progress and will be completed in FY 24-25)	----	33 kV Level creation at Malad to cater load requirement by DISCOMs at 33 kV level (Transformer replacement with 110 kV / 22 kV / **33 kV (additional)** level)	----	----	----	----	----	----
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D-2	ICT - Addition	400 kV	----	----	----	2 x 400/220 kV, 500 MVA ICTs at Dharavi Part of : Establishing connectivity between North and South Mumbai by 400 kV Phase I : Creation of 400 kV level at existing Dharavi RSS with 400 kV Tata Power Vikhroli - Dharavi S/c line.		----		----		
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		220 kV	----	2 x 250 MVA 220 / 110 kV ICTs at Vikhroli with 220 kV Cable (One ICT work completed and second ICT Work in progress and will be completed in FY 24-25)	Upgradation and Augmentation of existing 110 kV Powai RSS by creation of 220 kV level : 2 X 250 MVA, 220 / 110 / 33 kV ICTs 1 X 125 MVA, 220 / 33 kV Transformer	Upgradation of 110 kV Kalyan RSS to 220 kV with connectivity to 220 kV PAL S/s (MSETCL) (New scheme) 2 X 220 / 110 kV 250 MVA		Interconnection between 220 kV and 110 kV at Waghivali S/s by Installation of 2 x 250 MVA 220 / 110 kV ICTs at Waghivali with EHV cables.	Upgradation of existing 110 kV Parel S/s by creation of 220 kV level : 2 X 250 MVA, 220 / 110 kV ICTs	Upgradation of existing 110 kV Kolshet S/s by creation of 220 kV level : 2 X 250 MVA, 220 / 110 kV ICTs	Upgradation of existing 110 kV Ambernath S/s creation of 220 kV Level : 2 X 250 MVA, 220 / 110 kV ICTs	Upgradation of 110 kV Mankhurd S/s by creation of 220 kV level 2 X 250 MVA, 220 / 110 kV ICTs
			----	----	----	----	----	Installation of additional 1 X 250 MVA, 220 kV /110 kV/ 33 kV ICT at Saki S/s	----	----	----	----
			----	----	----	----	----	----	----	----	----	----
D-3	**ICT - Replacement**	**400 kV**	----	----	----	----	----	----	----	----	----	----
		220 kV	----	2 x 250 MVA, 220 kV / 110 kV / 22 kV ICT 1 & 2 **(Salsette)** (One ICT being replaced in Non - DPR scheme)	----	----	----	Replacement of 2 x 250 MVA, 220 kV / 110 kV / 22 kV ICT 1 & 2 **(Borivali)**	----	----	----	----
			----	----	----	----	----	----	----	----	----	----
D-4	**Transformers - Addition**	**220 kV**	----	----	----	Upgradation and augmentation of Transformation capacity at Dharavi S/s and Carnac S/s by installation of additional Transformers. 125 MVA, 110 kV / 33 kV / 22 kV Transformer **(Dharavi)** **125 MVA, 220 kV / 33 kV Transformer (Carnac)** (New)	----	----	----	----	----	----
		110 kV	----	----	----	Augmentation of Transformation capacity of Kalyan S/s by installation of 1 X 75 MVA, 220 / 22 kV Transfomer along with 220 kV bay extension and installation of 22 kV GIS Bus	----	----	----	----	----	----
			----	----	----	----	----	----	----	----	----	----
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)**	----	Upgradation of transformation capacity by Replacement of 2 nos, 110/22 kV, 7.5 MVA transformers with 2 nos, 60 MVA Transformer at Panvel S/s	----	----	----	----	----
			----	----	----	----	----	----	----	----	----	----
E-1	**Reactor - New**	400 kV	----	----	----	2 x 400 kV, 125 MVAr Variable Reactors at Dharavi S/s Part of : Establishing connectivity between North and South Mumbai by 400 kV Phase I : Creation of 400 kV level at existing Dharavi RSS with 400 kV Tata Power Vikhroli - Dharavi S/c line.	----	----		----		----
		220 kV	----	220 kV, 1 x 125 MVAR **(Mahalaxmi)** (Work is in progress. Scheme will be completed in FY 24-25)	----	----	----	Installation of 220 kV, 1 x 125 MVAR Reactor at Borivali for Reactive Power compensation	----	----	----	----
			----	220 kV, 1 x 125 MVAR **(Trombay)** (Work is in progress. Scheme will be completed in FY 24-25)	----	----	----	----	----	----	----	----
		110 kV	----	----	----	----	----	----	----	----	----	----
		33 kV	----	----	----	----	----	----	----	----	----	----
			----	----	----	----	----	----	----	----	----	----
E-2	**Reactor-Shifting**	**400 kV**	----	----	----	----	----	----	----	----	----	----
			----	----	----	----	----	----	----	----	----	----
F	**Capacitor**	**33 kV**	----	----	----	----	----	----	----	----	----	----
		22 kV	----	----	----	----	----	----	----	----	----	----
			----	----	----	----	----	----	----	----	----	----
		400 kV	----	----	----	Establishing connectivity between North and South Mumbai by 400 kV Phase I : Creation of 400 kV level at existing Dharavi RSS with 400 kV Tata Power Vikhroli - Dharavi S/c line. 400 kV Bays : 10 bays 400 kV Tata Power Vikhroli S/s : 400 kV bays : 07 bays		----				
			----	----	----	----		----	----	----		
			----	----	----	----	----	----	----	----	----	
		220 kV	----	1 no of bay at Mahalaxmi (1 x 125 MVAR **Mahalaxmi Reactor)** (Work will be completed in FY 24-25)	----	Establishing connectivity between North and South Mumbai by 400 kV Phase I : Creation of 400 kV level at existing Dharavi RSS with 400 kV Tata Power Vikhroli - Dharavi S/c line. 220 kV Bays : 02 nos at Dharavi	Upgradation of 110 kV Vikhroli S/s by creation of 220 kV Voltage level 1) 220 kV bays at Vikhroli : 07 bays	----		----		

G	**Addition of Bays**	**220 kV**	----	2 no of bay at Trombay (1 x 125 MVAR T**rombay Reactor)** (Work will be completed in FY 24-25)	----	Upgradation of 110 kV Kalyan RSS to 220 kV with connectivity to 220 kV PAL S/s (MSETCL) (New scheme) 1) 220 kV bays at Kalyan : 07 bays 2) 110 kV bays at Kalyan : 02 bays 3) 220 kV bays at PAL : 02 bays 4) 220 kV bays at Kalwa : 02 bays		1 no of bay at Borivali (1 x 125 MVAR Borivali Reactor**)**	Upgradation of existing 110 kV Parel S/s by creation of 220 kV level : 220 kV bays : 07	Upgradation of existing 110 kV Kolshet S/s by creation of 220 kV level : 220 kV bays : 07	220 kV bays : 02 (Carnac and Backbay S/s) Upgradation / augmentation of South Mumbai 220 kV Transmission Network by installing Additional 220 kV Carnac Backbay cable 6 km (New scheme)	Upgradation of 110 kV Mankhurd S/s by creation of 220 kV level 220 kV Bays : 07
		220 kV	----	----	----	----		----	----	----	Upgradation of existing 110 kV Ambernath S/s creation of 220 kV Level : 220 kV bays : 07	----
		110 kV	Consumer funded projects : 2 nos of bays at Malad (Metro 2A) 2 nos of bays at Mahalaxmi (Metro 2A) 5 nos of bays at Mandale (Metro)	2 nos of bays at BKC (Metro) 2 nos of bays at Dharavi (Metro) 2 nos of bays at Powai (Metro) 5 nos of bays at Dahisar (W Rly) 2 nos of bays at Khopoli (C Rly) 5 nos bays at Wadala (Metro) 5 nos of bays at Kanjurmarg (C Rly) 5 nos of bays at IIT Powai (IIT) 7 nos of bays at Amazon S/s	2 nos of bays at Dharavi (Metro) 2 nos of bays at Powai (Metro) 5 nos of bays at Dahisar (W Rly) 2 nos of bays at Khopoli (C Rly) 5 nos bays at Wadala (Metro)	----		----	Upgradation of existing 110 kV Parel S/s by creation of 220 kV level : 110 kV bays : 02	Upgradation of existing 110 kV Kolshet S/s by creation of 220 kV level : 110 kV bays : 02	Upgradation of existing 110 kV Ambernath S/s creation of 220 kV Level : 110 kV bays : 02	Upgradation of 110 kV Mankhurd S/s by creation of 220 kV level 110 kV Bays : 02
			----	----	----	----	----	----	----	----	----	----
H	**Switchgear replacement by GIS)**	**220 kV**	----	----	----	Upgradation of 220 kV GIS by replacement with higher 'Breaking Current Rating' and additional bays at Salsette S/s	Upgradation of 220 kV GIS by replacement with higher 'Breaking Current Rating' at Dharavi S/s (New scheme)	----	----	----	----	----
		110 kV	110 kV AIS upgradation by GIS Bays at Parel (Work completed)	----	----	----	----	----	----	----	----	----
			110 kV AIS upgradation by GIS Bays at Dharavi S/S (Work completed)	----	----	----	----	----	----	----	----	----
			110 kV AIS upgradation by GIS Bays at Vikhroli S/S (Work completed)	----	----	Upgradation of 110 kV at Malad S/s by replacing AIS with GIS	Upgradation of 110 kV GIS at Grant Road with addditional bay	----	110 kV AIS upgradation by GIS at Borivali S/s	110 kV AIS upgradation by GIS at Trombay S/s (New scheme)	110 kV AIS upgradation by GIS at Salsette S/s (New scheme)	110 kV AIS upgradation by GIS at Kalyan S/s (New scheme)
		33 / 22 kV	MV AIS Switchgear replacement by GIS at Salsette, Chembur, Saki, Ambernath and Borivali (Work completed)	22 kV AIS replacement with bays GIS with additional feeders to DISCOM at Kalayn RSS	Upgradation of 22 kV AIS with GIS along with sgregation of back-to-back feeders at Vikhroli RSS	----	Upgradation of MV AIS Switchgear by replacement with GIS at Salsette and Borivali S/s (New scheme)	----	----	----	----	----
			----	----	----	----	----	----	----	----	----	----
I	**Miscellaneous**		----	Replacement of Transmission Line Towers in Vashi Waghvali 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.	Centralized Grid Connected Battery Energy Storage System (BESS) of 200 MW at Trombay S/s for Grid Support in Mumbai Transmission System	Installation of Static Synchronous Compensator (STATCOM) for better voltage regulation at Mankhurd S/s, Trombay S/s, Parel S/s, Dharavi S/s and	----	----	Upgradation of existing unified SCADA	----	----	----

AEML-T & AEMIL STU 10 year Plan at Glance sheet FY 2024-25 2032-33

			2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34
A1	EHV Substations	220kV	220/33 kV GIS EHV S/s at BKC	220/33 kV GIS EHV S/S at Chandivali	220/33 kV GIS EHV S/S at Kandivali	220/33kV GIS EHV S/S at Khardanda	220/33 kV GIS EHV S/S at Malad (E)	220kV Kashi Village EHV S/s				
					220/33 kV GIS EHV S/S at Dahisar	220kV Scheme at Tilak Nagar/ Sidharth Nagar Estimated	220/33kV GIS EHV S/S at Airport Estimated Cost	220 kV Tagor Nagar GIS EHV S/s				
					220KV Switching S/s at Ghodbunder (Augmentation of Borivali-Ghodbunder-Boisar LILO line)	220kV Nahar EHV Station		220kV Vazira Naka (Don Bosco) EHV S/s				
					220kV Scheme at Uttan/ Rai Village(New)							
A2	Cost (Cr.)	± 320 kV										
								HVDC link between Kudus - Aarey 94 Ckt. Km				
		400kV										
		220kV	220KV Chembur BKC EHV S/s D/C Line (U/G cable) - 24 Ckt. Km	220 kV LILO of TPC Salsette – Saki Line (at 220kV Chandivali EHV Scheme) -1 Ckt. Km	LILO of 220kV Boisar-Versova Line at Kandivali -8.4 Ckt. Km	220 kV LILO of Aarey- BKC line at Khardanda - 7 Ckt. Km	LILO of 220kV Aarey - TPC Borivali OH line at Malad - 2 Ckt. Km	220kV Ghodbunder LILO S/s - Kashi Village EHV S/s D/C Line (U/G cable) - 1 Ckt. Km				
					220 KV Ghodbunder - Dahisar D/C Line (U/G cable) - 13 Ckt. Km	220kV LILO of TPC Trombay –Salsett Line at Tilak Nagar / Sidhartha Nagar EHV S/s – 4 Ckt Km	220 kV LILO of Aarey- BKC line at Airport – 4 Ckt. Kms	220kV Trombay - Salsette LILO at Tagore Nagar - 1 Ckt. Km				
					220 kV LILO of AEML Dahanu - Versova line at Uttan – 8 Ckt. Km	LILO of 220kV Aarey - Chandivali line at Nahar EHV Station - 9 Ckt. Km		LILO of MSETCL Borivali- Gorai at Vazira Naka EHV S/s - 1 Ckt. Km				
B	Link Lines	220kV				220kV D/C cable Connectivity Between Dahisar EHV Station – 220kV AEML-T Borivali EHV S/S - 12 Ckt. Km route	220 kV D/C cable connectivity Between 220 kV AEML-T BKC and 220 kV AEML-T Aarey - 35 Ckt. km					
						220kV S/C from AEML Aarey to AEML Chandivali and S/C from AEML Aarey to TPC Saki- 6.6 Ckt. Kms	220kV Cable system between TPC Sahar to AEML Airport- 3 Ckt. Km					
C	Transformers – Addition	220kV			03rd, 220/33 kV, 125 MVA Transformer at BKC EHV S/s	3rd Transformer at Chandivali	03rd, 220/33 kV, 125 MVA Transformer at Kandivali EHV S/s	03rd, 220/33 kV, 125 MVA Transformer at Khardanda EHV S/s	03rd, 220/33 kV, 125 MVA Transformer at Malad EHV S/s	3rd Transformer at Tagor Nagar EHV S/s		
							03rd, 220/33 kV, 125 MVA Transformer at Dahisar EHV S/s	3rd Transformer Nahar EHV S/s	3rd Transformer at Airport	3rd Transformer at Kashi Village EHV S/s		
							3rd Transformer at Uttan EHV S/s	3rd Transformer at Tilak Nagar 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	33kV AIS to GIS Conversion at Aarey (2 Boards) VSV (1 Board) & GBR (1 Board)						
F	C4-HTLS	220kV				Line Augmentation with HTLS/ Twin Conductors						
AEMIL 1000 MW HVDC (VSC based) Scheme												
A1	EHV Substations	±320 kV		1000 MW HVDC Terminal Stations at Kudus & Aarey -(WIP)								
A2	Associated Lincs			HVDC link between Kudus-Aarey -80 KMS route-(WIP)				Upgradation of 1000MW HVDC (VSC based) Kudus to Aarey Link.*				

New Corridor Schemes **Annexure-E**

Sr. No.	Phase	Voltage Level	Substation / Line	Tentative interconnection	Type	ICT MVA	Line Length	Line Reactor (MVAr)	Bus Reactor	Year
								250		2025-26
1	**1**	400 kV	400kV Line	400kV D/C line from 400kV Jejuri (existing) to 400kV Hinjewadi (existing) ***(Note: Reorientation/Bypassing of 400 kV Koyna - Jejuri & Lonikand - Jejuri line to form 400 kV Koyna - Lonikand line and utilisation 400 kV Bays at Jejuri S/s)*** (2000MW Capacity each)	Demand HotSpot		**120**			
2	1	765 kV	765/400 kV Pune (East)	LILO of both circuit of 765kV Aurangabad (PG) (Existing) - Solapur(PG) (Existing) D/C at 765kV Pune (East)	Demand HotSpot		60		240 MVAr Bus Reactor @ 765kV level	2027-28
				765kV D/C line from Pune (East) (New) to 765kV Pune- III GIS (Proposed)			300			
				2x1500MVA, 765/400kV ICT		3000				
				Connecting 765kV Pune (East) (New) with 400kV Karjat (existing) through 400kV Line D/C			40			
				400kV D/C line from 765/400 kV Pune (East) (New) to 400 kV Lonikand-I (existing)			200			
				Bays @ 400kV Karjat (2nos.), 400kV Lonikand-I (2nos.)						
3	1	400 kV	400/220 kV Saswad	400kV D/C line from 400kV Saswad (New) to 765/400kV Pune-III (Proposed)	Demand HotSpot		100		125 MVAr Bus Reactor @ 400kV level	2026-27
				LILO on 400 kV Lonikand - Koyna at 400 kV Saswad (New)			40			
				2x500MVA , 400/220kV ICT		1000				
				220kV Saswad (New) - Theur (existing) D/C			35			
				LILO on 220kV Jejuri (existing) - Phursungi (existing) D/C line at 220kV Saswad (New)			30			
				220kV Saswad (New) - Nanded City (existing) D/C			20			
				Bays @ 220kV Theur (2nos.)						
4	1	765 kV	765/400/220 kV Mahape	765 kV D/C line from 765kV Mahape (New) to 765kV Padghe-(PG) (existing)	Data Center		120		240 MVAr Bus Reactor @ 765kV level	PADHGE LINE: 2026-27 APTA LINE: 2028-29
				4x1500MVA, 765/400kV ICT		6000				
				400 kV connectivity to Datacenter Consumers						
				4x500MVA, 400/220kV ICT		2000				
				220 kV connectivity to Datacenter Consumers						
5	1	400 kV	400/132 kV Jalna	LILO OF A'BAD-II (THAPTI TANDA) (existing) - A'BAD-III (EKTUNI) (existing) D/C AT 400kV JALNA (New)	Demand HotSpot		160		125 MVAr Bus Reactor @ 400kV level	2026-27
				3x300MVA , 400/132kV ICT		1500				
				132kV M/C Lines from 400/132kV Jalna (New) to 132kV Jalna MIDC (existing) with quad conductor			50			
				LILO on 132kV Ambad (Existing) - Partur (Existing) line at 400/132kV Jalna (New)			15			
				LILO on 132kV Ghansawangi (Existing)- Partur (Existing) line at 400/132kV Jalna (New)			15			
				132kV connectivity to EHV consumers						
6	1	765 kV	765/400kV Nashik	765 kV D/C line from 765kV Nashik (New) to 765kV Boisar-II (PG) (Proposed)	Demand HotSpot		300		240 MVAr Bus Bus Reactor @ 765kV level	2027-28
				765 kV D/C line from 765kV Nashik (New) to 765kV Dhule (BDTCL) (existing)			320			
				2x1500MVA, 765/400kV ICT		3000				
				2x500MVA , 400/220kV ICT		1000				
				220 kV D/C line from 400kV Pimpalgaon (Proposed) to 220kV Girnare / Trembakeshwar (New) (400kV Line operated at 220kV)			50			
				220 kV D/C line from 220kV Girnare / Trembakeshwar (New) to 220 kV Raymond (existing) or upgradation of 132kV Jindal (existing) (400kV Line operated at 220kV)			30			
				2x100MVA, 220/132kV ICT at 220kV Girnare / Trembkeshwar (New)		100				
				132kV D/C Lines from 220/132kV Girnare / Trembakeshwar (New) to 132kV Mhasrul (existing) or LILO of existing 132kV Lines of Nashik 132kV RingMain			20			
				220 kV line from 765/400/220kV Nashik (New) to 220kV Sinner/Khaparale (New) (400kV Line operated at 220kV)			50			

				220 kV D/C line from 220kV Raymond to 220kV Sinner/Khaparale (New) for 220kV RingMain (400kV Line operated at 220kV)			50			
				220kV D/C Line from 765/400/220kV Nashik to 220kV Nashik (OCR) (400kV Line operated at 220kV)			50			
				2x200MVA, 220/132kV ICT at 220kV Sinner/Khaparale (New)		200				
				LILO on 132kV Sangamner - Khaparale at 220kV Sinner/Khaparale (New)			10			
				LILO on 132kV Akole (existing) - Khaparale (existing) at 220kV Sinner/Khaparale (New)			10			
				Bays @ 765 kV Dhule (BDTCL) (2nos.), 400kV Pimpalgaon (2nos.), 400kV Malegaon (2nos.), 220kV Raynond (2nos.)						
7	1	400 kV	400/220/132 kV Washi	400kV D/C line from 400kV Washi (New) to 765/400kV Pune (East) (New)	**RE Evacuation (~2000MW, appl. closed)**		300		125 MVAr Bus Reactor @ 400kV level	2026-27 (Matching with RE)
				2x500MVA , 400/220kV ICT		1000				
				220kV lines to Solar Generators						
				220kV D/C Line from 400/220/132kV Washi (New) to 220kV Manjarsumba (existing)			35			
				220kV D/C Line from 400/220/132kV Washi (New) to 220kV Paranda (existing)			40			
				2x300MVA , 400/132kV ICT		600				
				132kV D/C line from 400/220/132 kV Washi (New) to 132kV Kallam (existing)			10			
				132kV lines to Solar Generators						
				Bays @ 220kV Manjarsumba (2nos.), 220 kV Paranda (2nos.), 132kV Kallam (2nos.)						
8	1	400 kV	400/220kV Wagdari	400kV D/C line from 400kV Waghdari (New) to 400kV Solapur Pooling	**RE Evacuation (~1000MW)**		140		125 MVAr Bus Reactor @ 400kV level	2026-27 (Matching with RE)
				3x500MVA , 400/220kV ICT		1500				
				220kV D/C line from 400/220kV Waghdari to 220/132kV Wagdari (proposed)			40			
				220kV lines from Solar Generators						
9	1	400 kV	400/220 kV Umred	LILO on Both circuit of 400kV Tiroda (Adani) (existing) - Warora (MSETCL) Existing D/C line at 400/220/132kV Umred (New)	Demand HotSpot		28			2026-27
				2x500MVA , 400/220kV ICT		1000				
				220kV D/C line from 400/220/132kV Umred (New) to 220kV Buttibori (existing)			90			
				LILO on Both circuit of 220kV Umred (existing) - Nagbhid (proposed) D/C line at 400/220/132kV Umred (New)			8			
				2x200MVA, 220/132kV ICT at 400/220kV Umred (New)		400				
				132kV S/C line from 132kV Pennar (existing Consumer) to 400/220/132kV Umred (New)			20			
				132kV S/C line from 132kV DCL (existing Consumer) to 400/220/132kV Umred (New)			20			
				132kV S/C line from 132kV Kolari (existing) to 400/220/132kV Umred (New)			30			
				132kV S/C line from 132kV Ambhora (existing) to 400/220/132kV Umred (New)			20			
10	1	400 kV	400/220 kV Sakoli	LILO on Both circuit of 400kV Tiroda (Adani) (existing) - Warora (MSETCL) Existing D/C line at 400/220/132kV Sakoli (New)	Demand HotSpot		4			2026-27
				2x500MVA , 400/220kV ICT		1000				
				220kV D/C line from 400/220/132kV Sakoli (New) to 220kV Bhandara (existing)			80			
				2x200MVA, 220/132kV ICT at 400/220kV Sakoli (New)		400				
				132kV D/C line from 132kV Deori (proposed) to 400/220/132kV Sakoli (New)			100			
				132kV D/C line from 132kV Sakoli (existing) to 400/220/132kV Sakoli (New)			4			
				132kV S/C line from 132kV Sakoli (existing) to 132kV MorgaonArjuni (existing)			50			
				132kV S/C line from 132kV MorgaonArjuni (existing) to 132kV Bhramhapuri (existing)			40			
				TOTAL		**23700**	**3254**			

Sr. No.	Phase	Voltage Level	Substation / Line	Tentative interconnection	Type	ICT MVA	Line Length	Line Reactor (MVAr)	Bus Reactor	Completion of Project
1	2	765 kV	765kV Pune (WEST)	765kV LILO on One circuit of 765kV Neral (PG) (proposed) - Pune-III (PG) (proposed) - at 765kV Pune (WEST) (New)	Data Centre		30	240 MVAr Bus Reactor @ 765		2027-28 (Matching with DC)
				2x1500MVA, 765/400kV ICT		3000				
				400 kV D/C line from 765kV Pune-(WEST) (New) to 400kV Hinjewadi (Proposed)			60			

				400 kV connectivity to Datacenter Consumers						
				Bays @ 400kV Hinjewadi (2nos.)						
2	2	765 kV	765/400 kV Balsane-II	765kV D/C line from 765kV Dhule (BDTCL) (existing) to 765/400kV Balsane - II (New)	RE Evacuation (2600MW: 3 Appl.)		160		240 MVAr Bus Bus Reactor @ 765kV level	2027-28
				2x1500MVA, 765/400kV ICT		3000				
				400kV D/C lines from 765/400kV Balsane-II (New) to 400kV Balsane (proposed)			40			
3	2	765 kV	765/400/220 kV Alkud-II / Jath						240 MVAr Bus Bus Reactor @ 765kV level	2028-29
				765kV D/C line from 765kV Alkud-II / Jath (New) to 765kV Pune-III (PG) (Proposed) along with Line Reactor at both ends	RE Evacuation (~2000MW)		440			
				2x1500MVA, 765/400kV ICT		3000				
				400 kV D/C line from Alkud (Existing) to 765/400 kV Jath (New)			70			
				2x500MVA, 400/220kV ICT		1000				
				LILO on 220 kV Jath - Mhaishal Line at 765/400/220 kV Alkud-II / Jath			20			
				Bays @ 400kV (Alkud) (2nos.)						
				220kV lines from Solar Generators						
4	2	765 kV	765/400 kV Kandalgaon	765 kV 2 x D/C line from 765kV Kandalgaon (New) to 765kV Pune-III (proposed)	Pooling Station / PSP Evacuation		400	240 MVAr Bus Reactor @ 765		2028-29
				LILO on Both circuits of 400kV Dabhol - Nagothane D/C line at 765/400 kV Kandalgaon (New)			60			
				3x1500MVA, 765/400kV ICT		4500				
				2x500MVA, 400/220kV ICT		1000				
				Connectivity to PSPs						
5	2	HVDC	765/400/220 kV Dolvi		Demand HotSpot					2028-29 (AC) & 2029-30 (DC)
				765 kV 2x D/C line from 765kV Kandalgaon (New) to 765kV Dolvi (New)			260			
				3x1500MVA, 765/400kV ICT		4500				
				LILO of One circuit of 400 kV Padghe-Nagothane D/C line (WIP)			40			
				2x500MVA, 400/220kV ICT		1000				
				LILO on 220kV Apta - Uran D/C line at Dolvi			30			
				220kV D/C line from 220kV Dolvi to 220kV Wadkhal			2			
				Bays @ 220kV Wadkhal ((2nos.)						
6	2	765 kV	765kV Apta	765 kV D/C line from 765kV Apta (New) to 765kV Dolvi(New)	Demand HotSpot		160	240 MVAr Bus Reactor @ 765		2028-29
				765kV Mahape (New) - Apta (New) D/c			80			
				3x1500MVA, 765/400kV ICT		4500				
				Connectivity to EHV consumers						
7	3	400 kV	400 kV Mazgaon		Demand HotSpot (HVDC Convertor Station)			125 MVAr Bus Reactor @ 400		2029-30
				400kV S/C UG Cable from 400kV Mazgaon (New) to Mahalaxmi (New)			9			
				400kV Mazgaon (New) - Dharavi (New) S/c UG Cable			12			
				3x500MVA, 400/220kV ICT		1500				
				LILO on 220kV Seori-Carnac 3xS/c at Mazgaon			15			
				Bays @ 400kV ((2nos.) at Mahalaxmi, 400kV ((2nos.) at Dharavi						
8	3	400 kV	400 kV Trombay		Demand HotSpot (HVDC Convertor Station)			125 MVAr Bus Reactor @ 400		2029-30
				400kV Trombay(New) - Vikhroli D/c			15			
				3x500MVA, 400/220kV ICT		1500				
				Upgradation of 220 kV Trombay(existing)						
9	3	400 kV	400 kV Mahalaxmi	400kV S/C line from 400kV Mahalaxmi (New) to 400kV Dharavi (New)	Demand HotSpot		8	125 MVAr Bus Reactor @ 400		2029-30
				2x500MVA, 400/220kV ICT		1000				
				Upgradation of 220 kV Mahalaxmi(existing)						
10	3	400 kV	400 kV Dharavi		Demand HotSpot			125 MVAr Bus Reactor @ 400		2029-30

				400kV S/C line from 400kV Dharavi (New) to 400kV Vikhroli (New)			10			
				3x500MVA, 400/220kV ICT		1500				
				Upgradation of 220 kV Dharavi(existing)						
11	2	400 kV	400/220 kV Ambernath	LILO on One circuit of 400kV Padghe - Nagothane D/C line at 400kV Ambernath	Demand HotSpot		40	125 MVAr Bus Reactor @ 400		2028-29 (Matching with Neral/Kalamb(ISTS))
				3x500MVA, 400/220kV ICT		1500				
				220kV Lines reorientation at 220kV Ambernath			20			
12	2	400 kV	400/220 kV Hingoli West	400kV D/C line from 400kV Hingoli West (New) to 400kV Jalna (New)	RE Evacuation		320	125 MVAr Bus Reactor @ 400		2028-29 (Matching with RE)
				220kV D/C line from 220kV Hingoli west to 220kV Bhokar			80			
				220kV Hingoli west to Hingoli D/C Interconnection			20			
				Bays @ 220kV (2nos. each) at Bhokar & Hingoli						
				2x500MVA, 400/220kV ICT		1000				
13	2	400 kV	400/220 kV Latur / Tuljapur / (Belkund Sindhala)	400kV D/C line from 400kV Latur/Tuljapur to 400 kV Solapur PS	RE Evacuation		20	125 MVAr Bus Reactor @ 400		2028-29 (Matching with RE)
				220kV D/C line from 400/220 kV Latur/Tuljapur to Jalkot			300			
				220kV D/C line from 400/220 kV Latur/Tujapur to Tuljapur			20			
				220kV lines to Solar Generators			10			
				2x500MVA, 400/220kV ICT		1000				
				Bays @ 220kV (2nos. each) at Nilanga & Tuljapur						
14	2	400 kV	400/220 kV Yavatmal	400kV D/C line from 400kV Hingoli West (New) to 400kV Yavatmal (New)	RE Evacuation		360	125 MVAr Bus Reactor @ 400		2028-29 (Matching with RE)
				2x500MVA, 400/220kV ICT		1000				
				LILO on 220kV Yavatmal - Ghatodi line at 400/220kV Yavatmal (New)			30			
				220kV lines to Solar Generators						
15	2	HVDC	HVDC Dolvi	1500MW HVDC under sea cable from 765/400 kV Dolvi to 400kV Mazgaon (New)	Demand HotSpot		100			2029-30
				1500MW HVDC under sea cable from 765/400 kV Dolvi to 400kV Trombay			80			
				HVDC Terminal Station		3000				
16	3	765 kV	765 kV Dahanu (Vadhwan)	765 kV D/C Line from 765kV Dahanu(New) to 765/400kV Boisar-II(New)	Green Hydrogen		20	240 MVAr Bus Reactor @ 765		2029-30
				3x1500MVA, 765/400kV ICT		4500				
17	3	765 kV	765 kV Revdanda	765kV D/C line from 765 kV Apta(New) to 765kV Revdanda Port(New)	Green Hydrogen		20	240 MVAr Bus Reactor @ 765		2029-30
				3x1500MVA, 765/400kV ICT		4500				
18	3	765 kV	765 kV JNPT	765kV D/C line from 765kV JNPT Port (New) to 765 kV Apta(New)	Green Hydrogen		20	240 MVAr Bus Reactor @ 765		2029-30
				3x1500MVA, 765/400kV ICT		4500				
19	2	HVDC	HVDC Velgaon	HVDC Terminal station at Velgaon	Demand HotSpot	**1500**				2029-30
				750MW HVDC line from 400 kV Velgaon to Ghodbunder			100			
				HVDC Multi-terminal Station at Ghodbunder		750				
				750MW HVDC Line from Ghodbunder to 400kV Versova			120			
20	3	400 kV	400 kV Versova		Demand HotSpot			125 MVAr Bus Reactor @ 400		2029-30
				400kV D/C line from 400kV Versova (New) to 400kV Khardanda (New)			16			
				2x500MVA, 400/220kV ICT		1000				
				Upgradation of 220 kV Versova (existing)						
21	3	400 kV	400 kV Khardanda		Demand HotSpot			125 MVAr Bus Reactor @ 400		2029-30
				2x500MVA, 400/220kV ICT		1000				
				Upgradation of 220 kV Khardanda (Proposed)						
22	3	400 kV	400 kV Aarey		Demand HotSpot			125 MVAr Bus Reactor @ 400		2029-30
				400kV D/C line from 400kV Aarey (New) to 400kV Chandivali (New)			8			
				2x500MVA, 400/220kV ICT		1000				
				Upgradation of 220 kV Aarey (existing)						
23	3	400 kV	400 kV Chandivali	2x500MVA, 400/220kV ICT	Demand HotSpot	1000		125 MVAr Bus Reactor @ 400		2029-30
				Upgradation of 220 kV Chandivali (Proposed)						
				Total		**58250**	**3625**			