

Proposed STU Five year Rolling Plan from 2021-22 to 2025-26  
of Transmission network in Maharashtra State

AMRAVATI ZONE

Sr. No.	Particulars	Vol level	2021-22	2022-23	2023-24	2024 - 25	2025-26
A-1	Substation (7)	220 kV		220/132kV Pandharkawda, District-Yavatmal		220/132/33kV Lonar , District-Buldhana	
				220/132 kV Warud, District Amravati			
		132 kV		132/33 kV Karajgaon, District Amravati	132/33 kV Karanja (Ramzanpur), District -Akola	132/33 kV Babhulgaon , District- Yavatmal	
						132/33 kV Mukutban, District- Yavatmal	
A-2	Associated Lines	220kV		220 kV Wani – Pandharkawada D/C Line - 60 kms(Spillover)		220 kV Malegaon - Lonar DC line - 42 kM	
				220 kV Kalmeshwar - Warud DC Line– 171.27 ckm for Warud ss (Spillover)			
		132kV		LILO on 132 kV Chandur Bazar - Achalpur line at Karajgaon - 20 kms	132 kV D/C line from 220 kV Balapur – Karanja - 25 kms	LILO on 132 kV Malegaon - Mehekar SCDC Line at Lonar- 15km	
						LILO on one ckt of 132 kV Dusarbid - Mantha line at Lonar- 10km	
						132 kV SCDC line from Lonar - Risod- 27 km	
						LILO on one ckt of 132 kV DCDC line from Pandharkwda - Mukutban TSS at Mukutban - 6 km	
				132 kV DC line from 220 kV Dhamangaon to 132 kV Babhulgaon – 27 kms			
B	Link Lines	220 kV	LILO on 220 kV Wardha PG – Ghatodi line at Yavatmal 25km			220 kV Yavatmal LILO pt -Ghatodi DC line (Balance portion of Deoli-Ghatodi ) - 84 km	
		132 kV			LILO 13.2KV Nagewadi Jafrabad - S/c at 132kV Deoungaonraja		
C -1	2nd ckt stringing	220 kV					Badnera-Ner - 43 km
		132 kV	Malegaon - Mehekar- 44km	Nepanagar(Pipalpani) - Dharni-60km			
			Durgwada-Anjangaon-35km				
			Washim - Jambazar -41 km				

AMRAVATI ZONE

Sr. No.	Particulars	Vol level	2021-22	2022-23	2023-24	2024 - 25	2025-26
C-2	Replacement Conductor	132 kV					
C-3	HTLS	132 kV					
D-1	Creation of New Level	220 kV				Dhamangaon (2X100)MVA 220/132kV	
						Warud (2X25)MVA 220/33kV	
D-2	ICT - Addition	400 kV		Akola (3x167) MVA 400/220kV (3 rd ICT) <a href="#">WIP</a>			
		220 kV	Balapur (1x100)MVA 220/132 kV	Malegaon (1x100)MVA 220/132kV		Nandgaon Peth 2nd ICT (1x100)MVA 220/132kV	
				Anjangaon (1x100)MVA 220/132kV			
D-3	ICT - Replacement	400 kV					
		220 kV					
D-4	Transformers Addition	132 kV			Karanaja (1X25)MVA 132/33kV		
				Risod (1X25)MVA 132/33kV	Dusarbid (1X25)MVA 132/33 kV		
				Washim(1X25)MVA 132/33kV	Umerkhed (1X25)MVA 132/33kV		
					Buldhana (1X25)MVA 132/33kV		
					Motala (1X25)MVA 132/33kV		
D- 5	Transformers Replacement	220 kV					
		132 kV	Gunj 2X(50-25)MVA132/33kV		Pandharkawda 2X(50-25)MVA 132/33 kV		
			Chandur Bazar 2X (50-25) MVA 132/33kV				
E-1	Reactor - New	400 kV	Akola 1 X125 MVAR <b>(Commissioned)</b>				
E-2	Reactor-Shifting	400 kV					
F	Capacitor	33 kV	11 No's S/S - 130 MVAR				
		132 kV					

AURANGABAD ZONE

Sr No	Particulars	Vol. level	2021-22	2022-23	2023-24	2024-25	2025-26
A 1	Substation(8)	220 kV	220/132 kV Kurunda, District-Hingoli	220/33 kV Shendra DMIC, District-Aurangabad		220/33 KV Bidkin DMIC, District-Aurangabad	
			220/132/33 kV Narangwadi, District-Osmanabad	132/33 kV Tirthapuri, District-Jalna			
		132 kV	132/3 kV Utwad, District-Jalna	132/33 kV Mahur, District-Nanded	132/33kV Barashiv (Hanuman Nagar/Aundha) District- Hingoli		
A2	Associated Lines	220 kV	220 kV DC line from 400 kV Nanded (Kumbhargaoon) to Kurunda - 50 kms	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 220 kV Girawali - Hingoli line at Kurunda - 25 kms	LILO on 2 <sup>nd</sup> ckt of 132kV Ambad-Ghansawngi S/C line at 132kV Tirthpuri 8 km			
			220 kV DC line from 400 kV Solapur (PG) – Narangwadi – 70 ckt kms. (Commissioned)				
		132 kV	132 kV interconnection of LV side (132 kV) of 220/132 kV ICT with existing 132 kV Kurunda AIS bus – 1.5 km.	132 kV Gunj - Mahur SCDC line - 25 kms			
			Reorientation of 132 kV lines on MCMC towers at 220 kV Kurunda with bays. – 15 kms.				
			LILO of 132 kV Jalna Old (Kanhaiyanagar) - Partur line at Utwad (Seoli) S/s - 5km		LILO of 132 kV Kurunda - Hingoli line at Barashiv S/s- 20km		
B	Link Lines	400 kV	Bhusawal-II - A'bad-I at Tapthitanda -177km				
		220 kV	220kV Nagewadi - Bhokardan DC- 50 km	LILO on one circuit of Chikhali - Jalna line at 220 kV Nagewadi – 30 ckt kms ( <i>Remaining scope of Nagewadi Work</i> )	220 kV Patoda-Sonewadi DC link - 80 ckm		
				220 kv Interconnection between 220KV Murud - Tuljapur and Barshi Osmanabad (0.5 km )	220 kV Jeur - Paranda DC line (GEC)-35km		
		132 kV	Kharda - Ashti (GEC) DC- 45 km	Georai - Rajpimprie LILO at 220 kV Georai S/s - 5 kms	Patoda - Raimoha SCDC (GEC)-30km		
			LILO on 132 kV Chakur - Ahmedpur SCDC line at 220 kV Jalgot – 25 kms ( <i>Remaining scope of Jalgot Work</i> )	Interconnection Between 132 KV Hingoli Sengaon CKT-1 & 132 KV Yeldari Risod ( 13 km )	Kharda - Ashti at Patoda (GEC)-30km		
			Ambad – Ghansawangi at Partur -30 km		132 kV DC line from 220 kV Krishnoor to 132 kV Narsi S/s- 20km		
			132kV Majalgaon – Pathri - SCDC 35 ckm				

AURANGABAD ZONE

Sr No	Particulars	Vol. level	2021-22	2022-23	2023-24	2024-25	2025-26	
C-1	2nd ckt stringing	220 kV	Padegaon - Sawangi - 17km			Ghatodi - Hingoli-86km		
		132 kV	Ambad – Ghansawangi -25km	Himayat nagar - Kinwat - 51 km	SAT - Gangapur-27km			
			Bhokardan - Jafrabad -29km	Telgaon - Majalgaon- 21km				
			Bhokardhan - Rajur- 26km	Parbhani - Pathri- 48km	Georai - Mahakala- 22km			
C-2	HTLS	132 kV		Shendra Chikalthana ACSS -12km			Repalcement of conductor Beed-patoda-manjarsumbha line by HTLS equivalent- 27km	
							Repalcement of existing conductor Beed-Patoda by HTLS equivalent-45km	
C-3	Replacement conductor	220kV						
		132 kV		Latur - Ujani - Naldurg - Solapur DC line renovation using 0.2 ACSR Conductor -115km				
D-1	Creation of New Level	220 kV		Shendra (2X100)MVA 220/132 kV	Shendra DMIC (2X100)MVA 220/132kV			
				Patoda (2X100)MVA 220/132kV	Padegaon (2X50)MVA 220/33kV			
		132 kV						
			Jalkot (2X25)MVA 132/33 kV		Krishnoor(1X100)MVA 220/132kV			
D-2	ICT - Addition	400 kV 220 kV		Thapitanda (3X 167)MVA 400/220kV Kumbhargaoon (3X167)MVA 400/220kV	Paranda(1X100)MVA 220/132kV Tuljapur (1x100)MVA220/132kV			
D-3	ICT - Replacement	400 kV						
D-4	Transformers - Addition	400 kV		Waluj (1 X 50)MVA 220/33kV				
				Krishnoorj (1 X 50)MVA 220/33kV				
		132 kV		Harshul (1X50)MVA 132/33 kV				
			Akhada Balapur (1X25)MVA 132/33kV	Deolai (1X50)MVA 132/33kV	Jafrabad (1X25)MVA 132/33kV			
				Nilanga (1X50)MVA 132/33kV Vaijapur (1X50)MVA 132/33 kV				
D-5	Transformers - Replacement	220 kV		Jalna 2X(100-50)MVA 220/33-33KV				
		132 kV	Elichpur 2 X (50-25)MVA 132/33kV Ambad 1 X (50-25)MVA 132/33kV commisioned	Udgir 1X(50-25)MVA 132/33kV				
E- 1	Reactor - New	400 kV		1X125 MVAr at Nanded 1X125 MVAr at Waluj 1 x (125-50) MVAr at Girawali	1X125 MVAr at Thapitanda			
E- 2	Reactor - Shifting	400 kV						
F	Capacitor	33 kV	7 Nos. S/S - 70 MVAR					

KARAD ZONE

Sr. No.	Particulars	Voltage level	2021-22	2022-23	2023-24	2024-25	2025-26	
A1	Substation (4)	220 kV		220/33 kV Kasbe Digranj (MIDC) District-Sangli	220/33 kV Kesurdi MIDC, District-Satara -	132/33 kV Pachgani, District-Satara		
		132 kV						
		110 kV			110kV Shiradwad GIS, District-Kolhapur -			
A2	Associated Lines	220		LILO on Karad-Miraj S/S line at Kasbe Digranj -10 km	LILO on 220 kV Kandalgaon-Sona Alloy at Kesurdi-2.5 Km DC -	LILO on 132 kV Lonand-Wai Ckt-I at Pachgani -10km		
		132						
		110			110kV Jaysingpur- Shiradwad DC Line-20km			
B	Link Lines	220 kV		220kv Karad - Koyna SCDC-3.5 km				
				220kv Lonand Satara MIDC - DC ( 65 KM )				
		132 kV		Ambheri - Aundh - 14km		Conversion of 132 kV Phaltan - Dahiwadi SCSC to DCDC line -35km		
				LILO of one ckt of 220 kV Mhaishal - Jath line at Alkud – 46 ckt kms (GEC II) (Remaining scope of Alkud work)				
				Kudal - Kankawali SCDC -28km	Niwaliphata - Ratnagiri -28 km	Conversion 110kV Oglewadi-Borgaon SC to 132kV-30km		
		110 kV		Kavathe M'kal - Jath (GEC)- DC - 32km (commissioned)		Conversion of 110 kV Vishram - Borgaon -35km		
				Mudshingi (Kolhapur) - Puikhadi- 16km				
				Dudhganga - Radhanagri at Bidri- 12km				
				Peth - Borgaon - 10.5km				
				Jaysingpur - Kurundwad -40km		110kV Wathar - Kale (T) -35km		
C-1	2nd ckt stringing	220 kV						
		132 kV			Oglewadi-Mayani 40km			
		110 kV		Kale (T) - Warana -35km				

KARAD ZONE

Sr. No.	Particulars	Voltage level	2021-22	2022-23	2023-24	2024-25	2025-26
C-2	HTLS	220 kV			220kV Talandage - Tilawani Ckt 1 & 2 - 13km		
		132 kV					
		110 kV					
C-3	Replacement of conductor	110 kv					
C4	Conversion				110 kv Mayani-Diganchi S/C TO D/C - 45km		
		132kv		110kV Mudshingi - Renuka - Ichalkaranji SC To DC- 35km	110kv Ogalewadi-Atit S/C TO D/C - 45km		
D-1	Creation of New Level	220 kV	Peth (1X100)MVA 220/110KV (Spill Over)				
D-2	ICT - Addition	400 kV	New Koyna (3x105)MVA 400/220kV	Alkud (1X500)MVA 400/220kV (Remaining Scope)	400kV Talandage (3x167)MVA 400/220 kV		
		220 kV	Satara MIDC (1X100)MVA 220/132kV		Karad (1X500)MVA 400/220kV		
			Niwali (1X100)MVA 220/132-110 kV		Peth (1X100)MVA 220/110kV		
D-3	ICT - Replacement	400 kV	Talandge 3X(167-105)MVA 400/220kV				
D-4	Transformers - Addition	220 kV	Miraj (1X50)MVA 110/33kV		Satara MIDC (1X50)MVA 132/33kV		
			Phaltan 1x25MVA, 220/33kV Commissioned		220kV Five Star MIDC, Kagal (1x 50)MVA 220/33kV		
		132 kV			220kV Tilawani (1x100)MVA 220/33kV		
		110 kV			Kavathe M'kal (1X50)MVA 132-110/33kV		
		220kV			220kV Dasturi 1x(50-25)MVA 220/33kV		
D-5	Transformers - Replacement	132 kV		Shirwal 1x(50-25)MVA 132/33kV (New added)	Phaltan 2X(50-25)MVA 132/33kV		
		110 kV			Wai 1X(50-25)MVA 132/33kV		
					Ratnagiri 1 X (50-25)MVA 110/33kV		
					Dahiwadi 1X(50-25)MVA 132/33kV		
E	Reactor	400 KV					
c							
F	Capacitor	33 kV	12 Nos - 125 MVar (Phase - III)				

NAGPUR ZONE

Sr. No.	Particulars	Voltage level	2021-22	2022-23	2023-24	2024-25	2025-26	
A-1	Substation (14)	220 kV		220/132/33 kV Uppalwadi, District-Nagpur	220/132/33 kV Mankapur District- Nagpur		Evacuation arrangement for 2X660 MW generation of Koradi	
				220/132/33 kV New Pardi District-Nagpur	Evacuation arrangement for GMR EMCO	220 /33 kV Sakoli, District- Bhandara		
				220/132/33kV Naghbid , District- Chandrapur			220/33 kV Pachgaon (Kuhi), District- Nagpur	
					132/33 kV Sironcha, District- Gadchiroli	220/33 kV Kadholi , District Nagpur		
						220/33 kV Yenwa ,District- Nagpur		
		132 kV		132 /33 kV Lendra Park (GIS) District- Nagpur	132/33 kV Mihan, District- Nagpur			
				132/33 kV Bazargaon ,District-Nagpur	132/33kV Deori, District- Gondia			
	132/33 kV Jat Tirodi ,Dist- Nagpur							
A-2	Associated Lines	220kV		220 kV Koradi-II to Uppalwadi DC line OH 3.5 KMs, UG Cable 4 kms	220 kV DC Uppalwadi-Mankapur U/G-9 Km	220 KV Sakoli Bhandara DC line- 40 kM		
				220 kV Uppalwadi - Pardi DC UG cable line 12.5 (Route Km)			LILO of one ckt of 220kV Kanhan – Umred DCDC Line for Pachgaon s/s 15 km	
				220 kV DC line from 220kV Umred S/s - 46 Km for 220kV Nagbhid			LILO of one ckt of 220 kV Kanhan - Bhandara line for 220 kV Kadholi - 10 km	
							LILO on 220 kv Kalmeshwar-Warud DC line for 220 kv Yenwa- 0.5 Km	
		132kV		Interconnection between 220 kV New Pardi and 132 kV Pardi s/s-2 ckt KM	Reorientation of 132 kV lines at Mankapur OH line 2 Kms U/G Cable 0.2 Km			
				LILO of one ckt of 132 kV Asgaon - Bramhapuri line at 220kV Nagbhid S/stn - 21 Km	LILO on 132 kV Hingna II to Khapri line for Mihan S/s - 1 kms			
					LILO of 132 kV Amgaon - Gondia for 132 kV Deori ss - 41 km			
				LILO on Mankapur - Hingana I- for 132 kV Lendra ss - 7.746 kM (O/H-3.25km,U/G- 4.5km)	132 kV SCDC line from Kistampeth (Telangana) for 132kV Sironcha -35 ckt kms			
				LILO on 132 kV Ambazari-Amravati line for 132kV Bazargaon - 5 kms				
				132 kV DC undergroundcable from 132 kV Pardi s/s to Jat Tarodi s/-10.0 kms				



NAGPUR ZONE

Sr. No.	Particulars	Voltage level	2021-22	2022-23	2023-24	2024-25	2025-26
B	Link Lines	400 KV		Koradi I - Akola LILO at Koradi II- 4km			
				Bhadravati-Chandrapur D/C (Ckt 3 &4) at Chandrapur-II. - 5km			
				400KV Koradi - Khadka LILO at Koradi - II- 2.5km			
		220 KV		Koradi-II to Mankapur (U/G)- 6kms	220kV DCDC UG cable from GMR S/S to Sai Wardha S/S- 3.5 Km (Evacuation of GMR EMCO Gen)		
		132 KV		Sicom to Mul-25km	132 kV Hingna-I to Hingna-II- 4 Km		
C-1	2nd ckt stringing	132 kV	Wardha - II - Seloo -20km	Brahmpuri - Sindhewahi-53km			
				Mul – Sindhewahi -30km			
C-2	HTLS	132 kV	Kaulewada - Gondia -80ckm		132kV Khapari-Butibori DC line- 22km		
C-3	Replacement Conductor	132 kV					
D-1	Creation of New Level	400 kV	Khaparkheda (1x25)MVA 220/33kV		1 x 315 MVA 400/220kV at GMR S/s.		
		220 kV	Ambazari (2 X 25)MVA 132/33 KV				
D-2	ICT - Addition	220 kV			Sicom (1 X 100)MVA 220/132kV		
D-3	ICT - Replacement	220 kV	Bhandara 1X(200-100)MVA 220/132kV		Gadchiroli 1 X (100-50)MVA 220/132kV		
					Butibori I 2 X (200-100)MVA, 220/132kV		
D-4	Transformers - Addition	400 kV			Khaparkheda (1x25)MVA 220/33kV		
		220 kV					
		132 kV		Khapril (1 X 50)MVA 132/33kV	Umred (1X25)MVA 220/33kV		
					Hingna I (1 X 50)MVA 132/33kV		
				Morgaon Arjuni (1X 25)MVA 132/33kV	Hingna II (1 X 50)MVA 132/33kV		
				Gosikhurd (1X 25)MVA 132/33kV	Ambhora (1X25)MVA 132/33kV		
		Gondia (1 X 50)MVA132/33kV					
D-5	Transformers - Replacement	220 kV			Kaulewada 2X(50-25)MVA 220/33kV		
		132 kV			Bharshinghi 2X(50-25)MVA132/33kV		
E-1	Reactor (New)	400 KV	1X125 MVAR, Koradi -II	125 MVAR , Chandrapur SW			
				1X125 MVAR, Khaparkheda			
E-2	Reactor (Shifting)	400 KV		3 X 50 MVAR Shunt reactor for Chandra pur -Parli & Chandrapour Nanded			
F	Capacitor	33 kV					
		132 kV					

NASIK ZONE

Sr. No.	Particulars	Volt level	2021-22 (Current Year)	2022-23	2023-24	2024-25	2025-26
A1	Substation (16)	400kV	400/220 kV Karjat (Bhose), District- Ahmednagar	400kV Balsane , District-Dhule	400/220 kV Pimpalgaon District- Nashik		
			Evacuation arrangement for 1X660 MW generation of Bhusawal (ICT Cost) cost in ICT				
		220kV	220/132 kV Amrapur (Pathardi) District- Ahmednagar		220/132 kV Nandurbar, District- Nandurbar	220/33 kV Deosane, District- Nashik	
			220/132 kV Pimpalgaon, District- Nashik		220/132/33 kV Supa MIDC District- Ahmednagar	132/33 kV Lakhmapur, District- Nashik	
					220/33kV Shirampur, District- Ahmednagar		
		132kV	132/33 kV Dhadgaon , District- Nandurbar				132/33kV Dhanora ,District-Jalgaon
			132/33 kV Kothali , District-Jalgaon				132/33kV Mendhvan, District-Ahmednagar
			132/33 kV Sinnar (Shaha) District- Nashik				
			132/33 kV Karkee (MSEDCL) Jalgaon				
A2	Associated lines	400kV	400 kV MC line on MC tower by making LILO on both Ckts of 400 kV Lonikand - II (ckt-I & Ckt-II) - Girawali Line at Karjat - 6 kms.	LILO on 400kV Sardarsrovar- Dhule D/C line - 36 ckm	LILO 400kV A'bad PG-Boisar (PG) DC line at 400 kV Pimpalgaon -3 km		
			400kV Bus Interconnector arrangement (between 400kV Deepnagar & Proposed 1x660MW)				
		220kV	220 kV DC line on DC towers from 220 kV Jeur s/s to 400 kV Karajat s/s- 52 kms.	220kV Balsane -Shivajinagar DC line - 36 ckm	Interconnection between 400 kV Pimpalgaon & 220 kV Pipalgaon S/s - 1 kms	LILO on one circuit of 220kV Nashik (OCR) – Navsari D/C line at proposed 220/33kV Deosane substation – 15 Km	
			220 kV DC line on MC towers by making LILO on 220 kV Bhigwan-Kurkumb line at prop. 400 kV Karjat S/S- 18 kms.		Reorientation of 220 kV Eklahre - Pimpalgaon line at 400 kV S/s - 1km		
			LILO on one ckt of Nagar - 220 kV Bhose line at 400 kV Karjat s/s - 38 kms.		220 kV DC line from 220 kV Dondaicha -Nandurbar – 80 ckt kms		
			220 kV DC line from 400 kV Taptitanda S/s to Amrapur – 75 Km		LILO of one circuit of 220 kV Ahmednagar - Bhose DC line at Supa - 40 ckt Km		
			220kV DC line from Pimpalgaon to GCR & ECR Eklahre - 44 km		LILO of both circuits of 132 kV Supa –Vadjire (WIP) DC line at Supa – 20 ckt kms		
					LILO on 220 kV Babhaleshwar – Bhenda (S/C) line at 220 kV Shirampur S/s. - 5 ckm		
		132kV	LILO on both ckts of 132 kV Shevgaon – Pathardi DC line at 220 kV Amrapur (Pathardi) S/stn – 5 Km (Commissioned)		LILO on one ckt of 132 kV Dondaicha - Nandurbar line at 220 kV Nandurbar MIDC - 10 ckt kms	LILO on 132 kV Kalwan - Dindori at 132kV Lakhampur – 20 ckt kms	Conversion of existing 132 kV Yawal – Chopda SCSC line to D/C line. (For 132kV Dhanora)- 43km
			132 kV DC line from 132 kV Taloda S/S to 132kV Dhadgaon – 40 kms		LILO on one ckt of 132 kV Nandurbar - Visarwadi line at 220 kV Nandurbar MIDC - 10 ckt kms.		LILO on one circuit of 132 kV Yawal – Chopda line at 132 kV Dhanora S/s. (04 Km)
			132 kV DC line from Pimpalgaon to Dindori S/s - 17 kms (Commissioned)				132 kV Sangamner - Mendhevan – 20 ckt kms
			LILO of one circuit of 132 kV Chalisgaon – Pachora (D/C) Line at 132kV Kothali ss. -3 Kms (Commissioned)				
			LILO on 132 kV Babhaleshwar- Kopargaon line at 132 kV Shaha S/s - 31 Kms				
			132kV Muktainagar to Karkee DC line 20 km				

NASIK ZONE

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B	Link Lines	400kV					
		220kV			Babhleswar - Kopargaon -36km		
		132kV	132 kV DC line from 220 kV Jamner (Kekatimbhora) to 132 kV Patur s/s - 20 ckt kms (remaining scope of work)				LILO of One circuit of 132kV Amalner - Nardane D/C line on 132kV Amalner - Parola line-5 km
			132 kV SCDC line from 220 kV Ahmednagar -132 kV Supa s/s. 25 ckm ( GEC)		132 kV Samsherpur - Nandurbar - 20 km		
			132 kV Bhabhleshwar-Rahuri- A'nagar (GEC) 39 ckm				
			132kV Ahmednagar - Ahmednagar MIDC DC line 32 ckm				
			LILO on 132kV Shivajinagr-Dhule at Sakri -10 ckm				
C -1	2nd ckt stringing	220kV	220kV Jamde - Valve (GEC) 13km(Commissioned)				
			220kV Dondaicha - Shahada -27km				
		132kV	132 kV Belwandi - Shrigonda-20km	132 kv Eklahare -Sinnar-29km	Sinnar Old - Nashik GCR-23km		Bhambori - Erandol-26km
				132kv Taloda - Shahada -27km			
			Amalner - Nardane -35km	132kv Khaprale - Sinnar - 11km			
			Bhenda - Vishwind DC (GEC)-70km				
			Bhenda - Newasa-24km				
	Nagar - Nagar via Nimbalk TSS-6km						
C-2	HTLS	132 kV	GCR-Ambad link line HTLS -19.5 km (Commissioned)	220/132kV Malegaon - 132kV Malegaon-4.8km			
			Eklahare (OCR) - Takli (ACSS)-11.5km (Commissioned)-	Shivajinagar - Sakri - Dhule -80km	Manmad - Lasalgaon-32km		220/132kV Kalwan (Bhendi) - 132kV Kalwan-8km
			Raymond-Ambad HTLS- 24 km (Commissioned)				
C-3	Replacement Conductor	132 kV	Chalisingaon - Dhule (Replacement) (Commissioned)- 53km				
C4	Conversion				Conversion of 132 kV Babhleshwar - Sangamner SCSC line into DCDC - 34km		
D-1	Creation of New Level	220 kV	Bhose (2X50)MVA 220/33kV				
		132			Pimpalgaon (2 X 50)MVA 132/33kV		
D-2	ICT - Addition	400 kV		Khadka (3X105)MVA 400/220kV			
				Babhaleshwar (3x167)MVA 400/220kV			
		220 kV	Chalisingaon (1X200)MVA 220/132kV				
D-3	ICT - Replacement	400 kV		Babhleshwar 3x(167-105)MVA 400/220kV (Third ICT replace)	Dhule 3 X (167-105)MVA 400/220 kV (third ICT replacement existing 2x500MVA +1x315)		
					220kV Babhaleshwar 1x(200-100)MVA 220/132kV		
		220 kV				Dondaicha 2x(200-100)MVA 220/132kV	

NASIK ZONE

Sr. No.	Particulars	Volt level	2021-22 (Current Year)	2022-23	2023-24	2024-25	2025-26
D-4	Transformers - Addition	220 kV	Kalwan (1X50)MVA, 220/33kV commissioned		Raymond (1 X 25)MVA 220/33kV		
		132 kV	Chalisingaon (1X50)MVA 132/33kV Commissioned		Newasa (1x25)MVA 132/33kV		
			Babhleshwar (1X50MVA), 220/33kV	Dindori (1 X 50)MVA 132/33kV			
			Ramachepimplas (1x25MVA 132/33kV Commissioned		Ghodegaon (1 X 50)MVA 132/33kV		
			Rashin (1x25)MVA 132/33kV		Khandke (1X25)MVA 132/33kV		
			Visarwadi (1x25) MVA 132/33kV (WIP)		Samsherpur (1X25)MVA 132/33kV		
			Taloda (1X25)MVA 132/33 kV (WIP)		Sinner OLD (1X 50)MVA 132/33kV		
			Rahuri (1X50)MVA 132/33kV Commissioned		Nardana (1 X 25)MVA 132/33kV		
			Malegaon (1x50)MVA 220/33kV		Jalgaon NEW MIDC (1 X 50)MVA 132/33kV		
			Kedgaon (1 X 50)MVA 132/33kV				
D-5	Transformers - Replacement	220 kV					
		132 kV			Sayane 1 X(50-25)MVA 220/33kV		
E- 1	Reactor - New	400 kV	1 X 125 MVA, Bhusawal -II (Deepnagar)	1 X (125 - 50) MVA, Khadka			
				2 X (125 - 80) MVA, Babhaleshwar			
E- 2	Reactor-Shifting	400 kV					
F	Capacitor	33 kV	18 No's S/S - 320 MVA	13 No's - 390 MVA			

**PUNE ZONE**

Sr. No.	Particulars	Voltage level	2021-22	2022-23	2023-24	2024-25	2025-26
A1	Substation (7)	400 kV		400/220 kV Hinjewadi (MIDC), District- Pune		220/33 kV Marunje / Balewadi, District-Pune	
		220 kV		220/33 kV Khed City (Retwadi), District- Pune		220/22 kV Bhugaon, District-Pune	
				220/33kV Mundhale, District-Pune	220/132 kV Waghdari, District-Solapur		
		132 kV		132/33 kV Bibwewadi, District-Pune			
A2	Associated line	400kV		LILO on Lonikand I - Koyna Stage IV at Hinjewadi-			
				a)Jejuri-Winjhar section -103 ckm			
				b) Winjhar-Hinjewadi section -92 ckm		LILO on 220kV Chinchwad - Parvati SC line for 220kV Marunje ss -5 km	
		220kV		LILO on 220kV Lonand-Baramati SC- 5km		Bhugaon - Pirangut line 15 km	
				LILO on one ckt. of 220kV Lonikand-I – Kathapur DC line at Khed City- 5 kms	LILO on one ckts of 220 kV Solapur PG - Narangwadi DC line at 220 kV Waghdari -40km		
		132kV		LILO on Kothrud-Phursungi by UG cable for Bibwewadi ss - 0.75 km	LILO on both ckt 132kV Wagdari-Tata Renew Solar		
B	Link Lines	400 KV	LILO of Karad - Lonikand at Jejuri- 1.7km	765 kV Shikrapur(PG) to 400kV Lonikand II DC Line (TBCB)-25km			
		220 kV	220 kV D/C line for reorientation of existing line at 220 kV Chinchwad-II -12 ckt kms (Chakan Telco,Parvati, Urse,Hinjewadi I & Flagship)	Solapur (PG) - Bale DC Line-40km	LILO of Chinchwad - Telco at Chakan II - 9km		
				Jejuri - Lonand- & Lonand-Baramati 14km	220kV TalegaonPG-Chakan DC- 6km		
				220 kV DC line from 765 kV Shikrapur PG to 220 kV Khed City - 18 kms	Chinchwad Apta for Talegaon (PG) - 36km		
				220 kV DC line from 765 kV Shikrapur PG to 220 kV Ranjangaon S/s using existing corridor - 10 kms	Urse - Chinchwad -20km		
				Reorientation of 220 kV Babhleshwar - Ranjangaon ckt & Lonikand - Ranjangaon Ckt at Khed City - 1 kms	Chinchwad - Kandalgaon - 28km		
		132 kV	Magarpatta - Rasta Peth S/C Cable - 9km	NCL-Rahatani- 6km	LILO of Mahindra Forge-Vignhar at Pimpalgaon-10km		
				LILO of Indapur -Ujani at Lonideokar- 15km			

PUNE ZONE

			Conversion Chinchwad-Talegaon 100kV tower line to 132kV- 15km	Biltgraphic - Lonideokar -8 km	Zuari - Chettinad - 2km		
				132 kV Walchandnagar - Bawda SCDC line - 35 kms on 132kV Walchandnagar-Indapur line(balance scope )			
			Parvati - Kothrud Cable- 4km				
			LILO Theur-Sanaswadi & Kharadi- Markal - 5km				
			Conversion of 132 kV Theur - Yavat - Daund SC to DC line (Old line)- 50km		LiLO on Rahatani - Varasgaon at Flagship- 10km		
				132kV Chakan to Chakan II ss- 10km	NCL--Phursungi- 18km		
C -1	2nd ckt stringing	220 kV	Tap to LILO Volks Wagon - 3km			Rahatani -Varasgaon -42km	
				Degaon -Mandrup (GEC)- 15km			
		132 kV	Bale -MIDC Solapur- 16km	Mohol - PuluJ-16km			
			Waghdari-Akkalkot-26km	Naldurg - Waghdari- 35km			
				Tap to LILO at 132 kV Bajaj Auto (Chinchwad - Chakan)-5km			
				Purandwade Tap on Bawada Nira Bhima-Walchandnagar-5km			
				Velapur - ShankarNagar-13km			
				Malinagar to Velapur- 20km			
C-2	HTLS	132 kV	Theur - Kharadi- 15km	Chinchwad - Narayangaon HTLS- 50km			
			Kharadi-Ionikand II- 15 km				
C-3	Replacement	220 kV					
C-4	Conversion	132 kv		Upgradation of 110kV Pandharpur - PuluJ - Degaon-55km			
D-1	Creation of New Level	400 kV	Lonikand II (2X100)MVA 220/132kV				
		220 kV			Flagship (2X200)MVA 220/132kV		
D-2	ICT - Addition	400 kV		400kV Lamboti (3X167)MVA 400/220kV			
		220 kV	Rajangaon (1X100)MVA 220/132kV				
		400 kV					
	ICT -						

PUNE ZONE

D-3	Replacement	220 kV	Walchandnagar1X(200-100)MVA 220/132kV		Jeur 1X(200-100)MVA 220/132kV		
			Magarpatta 2x(200-100)MVA 220/132kV	Pandharpur 1X(200-100)MVA 220/132-100kV	Alephata 2X(200-100) MVA 220/132kV		
D-4	Transformers - Addition	400 kV		Lonikand (1X50)MVA 220/22kV	Jejuri (1X50)MVA 220/33kV		
		220 kV			1x50MVA 220/22kV Hinjewadi II		
					Sanaswadi (1x50)MVA 132/33kV		
		132 kV	Kharadi (1x50)MVA 132/22kV Commissioned	Nanded City(1x50)MVA 220/22kV	Rahatani (1x50)MVA 132/22kV		
				Sanaswadi (1x50)MVA 132/22kV	Chakan (1x50)MVA 220/22kV		
					Pirangut (1X50)MVA 220/22kV		
D-5	Transformers - Replacement	220 kV			Telco 2X (100-50)MVA 220/22kV		
			Bhalawani 2 X (50-25)MVA 220/33kV		Yavat1X (50-25)MVA 132/33kV		
			Tembhurni 1 X (50-25)MVA 220/33kV		Bhigwan 1 X 50-25MVA 220/33kV		
		132 kV	Indapur 1 X (50-25)MVA 132/33kV		Vairag 2 X 50-25MVA 220/33kV		
			Walchandnagar 1X(50-25)MVA 132/33 kV				
			Markal 2x(50-25)MVA132/33kV Commissioned	Purandvade 1 X (50-25)MVA 132/33kV			
			Velapur 1 X (50-25)MVA 132/33kV ( 1 TF Commmisioned & 1 TF WIP)				
			Bawda 1X (50-25)MVA 132/33kV				
E-1	New Reactor	400 KV	1X125 MVAr, Lonikand - II		1X125 MVAr, Jejuri		
				1X125 MVAr Chakan			
E-2	Reactor (Shfting)	400 KV					
F	Capacitor	220 kV					
		33 kV	3 Substations- 30 MVAr	4 Substations- 120MVAr			
		132 kV					

VASHI ZONE

Sr. No.	Particulars	Voltage level	2021-22	2022-23	2023-24	2024-25	2025-26
A-1	Substation (25)	400 kV	400/220 kV Kudus, District-Thane		400/220 kV Kalwa -II GIS with 2x500MVA,400/200kV ICT	400/220kV Velgaon, District-Palghar	
		220 kV	220/33 kV New Timber Market GIS / Panvel-II District- Raigad	220/33 kV Abhitghar (Wada), District- Thane		Devlopers/Dombivali (W) District- Thane	220/22 kV Palaspe, District-Raigad
				220/22 kV Mankoli / Bhiwandi, District- Thane	220/22 kV Manor, District-Palghar		220/22 kV Dhokali/Pachpakhadi, District-Thane
			220/22 kV Pawane (MIDC),District- Thane				
			220/33 kV Ulwe Node GIS,District- Raigad				220/22 kV Pale, District-Thane
			220 kV GIS Switching Station Wagiwai, District- Raigad	220/22 kV Virar (West) / Chikhali Dongri District- Palghar	220/33 kV Panchanand/Taloja District- Raigad	220/33-22 kV Goregaon Filmcity GIS ,District- Mumbai	
			220 kV GIS Switching Station Khandeshwar District- Raigad				220/22 kV Virar (East) (Kopari) District-Palghar
			220/132/33 kV Palghar, District- Palghar				
			132/33 kV Jawhar, District- Palghar	132/33 kV Dapchari,District- Palghar			
		132 kV		100/22 kV Kaman (Vasai)/Kharbavh District- Palghar			
		110/100 kV		110/22 kV Gaikwad Pada (Ulhasnagar) District- Thane			110/22 kV Urane Puranik, District-Thane
A-2	Associated Lines	400 kV	400 kV D/C Babhaleshwar-Kudus line- 200 km			LILO on Tarapur-Kudus II DC line - 20km	
						LILO Boisar-Borivali SC -10km	
						LILO on Dahanu-Ghodbubdr DC- 10km	
						LILO Dahanu-Versova SX - 5km	
						LILO Boisar-Versova SC- 5km	
		220 kV	LILO on both ckt of 400 kV Tarapur-Padghe line at Kudus- 15 km				
			LILO on 220 kV Tarapur-Borivali & Boisar-Ghodbunder line at Kudus - 10 kms				LILO on 220 kV Kharghar - Kandalgaon line at 220 kV Palaspe S/s- 5km
			LILO on 220 kV Padghe-Wada & 220 kV Kolshet-Wada at 400 kV Kudus - 10 km	LILO on 220 kV Boisar (PG)-Vasai line for 220 kV Chikhali Dongari - 4 km		LILO on 220 kV Baapgaon - Kalwa line at Horizon Developers /Dombivali S/s- 10km	LILO on 220 kV Temghar - Colourchem line at 220 kV Dhokali /PachpakhadiS/s- 5km
			LILO on 220 kV Kandalgaon-Kharghar U/G for 220 kV Timber Market - 3km	LILO on 220 kV Kalwa-Bapgaon for 220 kV Mankoli - 300 m	Reorientation of existing 220 kV lines at Kalwa II S/s		LILO on 220 kV Boisar (PG)-Vasai on D/C / M/C towers for 220 kV Kopari - 5 km
			LILO on one ckt of 220 kV TIFIL-Kalwa U/G cable for 220 kV Pawane - 0.7 km	LILO on 220 kV Padghe-Wada line for 220 kV Abhitghar - 9 km		LILO on Aarey (AEML) - Borivali (AEML) UG cable for Goregaon Film City - 5 km	
					LILO on 220 kV Kalwa-Taloja UG cable for 220 kV Panchanand/Taloja - 0.5 km		220 kV DC line from 220 kV Jambhul S/s to Pale S/s- 25km
			LILO at Ulwe end on both ckt of UG cable sec. of 220 kV Uran-Kharghar line for 220 kV Ulwe Node - 3 km		220 kV DC line from 220 kV Boisar PG S/s to Manor S/s-30km		
			LILO on 220 kV Boisar (PG)-Nalaspura for Palghar-10 km				
		132 kV	LILO on one ckt of Boisar MIDC- Dahanu line at Palghar- 15 km	132 kV DC Boisar II - 132 kV Dapchari - 25km			
			132 kV D/C Suryanagar/Kawdas-Jawhar line 40 km				
		100 kV	LILO at Panvel end on both ckt of UG cable sec. of 220 kV Kandalgaon - Kharghar line for Khandeshwar - 3 km	LILO on 110 kV Kalyan (TPC) - Ambemath (TPC) UG cable for 110 kV Gaikwad Pada - 1 km			LILO on 110 kV Bhivpuri - Neral line-15km
				LILO on 100 kV Padghe-Vasai for 100 kV Kaman U/G - 1.5 km			



VASHI ZONE

Sr. No.	Particulars	Voltage level	2021-22	2022-23	2023-24	2024-25	2025-26
B	Link Lines	400 kV	Kalwa - Padghe Ckt 3 - 4km		Padghe - Padghe PG DC Line-7 km	<i>Conversion of 400kV SC to DC Kalwad-Padghe Ckt I &amp; II-</i>	
		220 kV					
		100 kV			LILO of 100 kV Ambernath – Mohone at Jambhul - 5km		
C-1	2nd ckt stringing	100 kV	Kandalgaon- Mhasala.-35km				
C-2	HTLS	400 kV	400kV Kalwa-Padghe ckt -I- 52km	400kV Kalwa-Padghe ckt -II-52km			
		220 kV	Mulund - Trombay -24km	Padghe-Jambhul - 20 km & Jambhul-Pal-22km			Conversion of 220 kV Kalwa - Trombay DC line into 220 kV MC HTLS line -27km
				Padghe-Bhiwandi D/C -18.5km			
		132 kV	Boisar (M)-Boisar PG D/C - 9km	Padghe - Temghar Ckt I & II- 17km			
C-3	Replacement/Reconductoring	100kV		Jithe-Thal to GAIL-3km			
D-1	Creation of New Level	220 kV		Jambhul (2 X 50)MVA 220/22 kV			
D-2	ICT - Addition	400 kV					
D-3	ICT - Replacement	400 kV		Nagothane 1 x (500-315 )MVA (ist ICT)	Nagothane 1 x (500-315 )MVA 400/220kV (Second ICT)		
				Boisar1x(200-150)MVA 220/132kV	Kharghar 2 x (500-315 )MVA 400/220kV		
		220 kV		Padghe 1 X(500-315)MVA 400/220kV			
D-4	Transformers - Addition	400 kV		Kharghar (1 X 50)MVA 220/33kV			
		220 kV		Anandnagar (1x50)MVA 220/33kV	Airoli Knowledge Park(1X 50)MVA 220/33kV		
				Baapgaon (1X50)MVA 220/22kV	Sonkhar (1X50)MVA 220/33kV		
				Kolshet (1x50)MVA 100/22kV			
				Nocil (1X 50)MVA 100/22kV			
				Neral ( 1x25)MVA 110/22kV	Nerul (1X100)MVA 220/33-33kV		
				Nalasopara(1X 100)MVA 220/22kV			
		132 kV		ONGC Panvel(1X50)MVA 220/22kV	Palghar (1X50)MVA 132/33kV		
		100 kV		Mohane (1X50)MVA 100/22kV			
D-5	Transformers - Replacement	220 kV		Mahape 2X(100-50)MVA 220/22-22kV			
				Colourchem 2X(100-50)MVA 220/22-22kV			
				Kolshet 1 X (100-50)MVA 220/22-22kV			
				Temghar 1 X (100-50)MVA 220/22-22kV			
		132 kV			Boisar MIDC1X(50-25)MVA 132/33kV		
		100 kV			Patalganga1X(50-25)MVA 100/22 kV		
E	Reactor	400 kV	(1 X 125 MVAr at Kalwa )	(1 X 125 MVAr at Kudus)			
F	Capacitor						
	Special Project HVDC				Upgradation of existing HVDC control & Protection of C'Pur-Padghe HVDC Bipole link		

**TPC-T Five Year STU Plan FY 2021-22 to 2025-26**

Sr. No.	Particulars	Voltage level	2021-22 (Current Year)	2022-23	2023-24	2024-25	2025-26
A	Substation	220 kV				220/33 kV Worli S/S	220/33 kV New Dharavi
						220/33 kV Goregaon S/S	220/33 kV MbPT S/S
						220/33 kV Vile Parle	
		110 kV			110 kV / 33 kV BKC S/S (Extension) (New)	110 kV / 33 kV Lodhivali S/S (New)	
B	Associated Lines	220 kV				LILO of 220 kV Dharavi-Mahalaxmi Line by U/G cable at Worli - 2 km	LILO of 220 kV Trombay Dharavi Lines at New Dharavi RS - 1 km
						220 kV Tata-Borivali RS - Goregaon RS S/C line - 8 km	LILO on 220 kV Trombay-Carnac at MbPT (D/C) U/G cable - 2 km
						220 kV Sahar RS - Goregaon RS S/C line - 8 km	
						220 kV D/C Versova-Vile Parle U/G cable- 4 km	
		110 kV				LILO of 110 kV Khopoli Karanjade line- 2 km	
C-1	Link Lines	220 kV		Trombay to Dharavi and Salsette (Interconnection with Saki) (Multi-circuit) - 59 km			
				Double circuit 220 kV lines from Tata Waghivli S/S to MSETCL's Waghivli S/S			
				220 kV Kalwa - Salsette line # 5- 10 km			
		110 kV		110 kV Dharavi RS to BKC RS (S/C) U/G cable - 5 km			
				110 kV Saki RS to Kurla RS (S/C) U/G cable - 5 km			
	110 kV Salsette RS to BKC RS (S/C) U/G cable - 18 km						
C-2	2nd ckt stringing	220 kV				220 kV Salsette Backbay (Carnac) hybrid line - 35 km (New)	
		110 kV					

C-3	Reorientation	220 kV					
		110 kV					
C-4	HTLS/ Replacement of Conductor	220 kV			Replacement of Trombay-Carnac -5 and 6 OF cable by XLPE cable- 8 km each		220 kV Waghivali Dharavi 7 and 8 HTLS upgradation (New)
					220 kV Salsette Borivli 1 and 2 HTLS upgradation (New)		Replacement of 220- kV Trombay-Dharavi 5, 6 Underground section by U/G cable - 7 km
		110 kV	110 kV Backbay to Nariman Point oil filled cables replacement (New)		Replacement of 110 kV Trombay Carnac # 3 OF cable by XLPE cable - 8.5 km	Replacement of 110 kV Parel-Mahalaxmi#1 U/G OF Cable by XLPE cable - 6 km	Replacement of cable of 110 kV Parel-Grant Road
				Replacement of Trombay Chembur # 1,2, 3 and Khopoli Chembur cables	Replacement of 110 kV Trombay Parel # 3 OF Cable XLPE Cable- 5 km	Replacement of 110 kV Dharavi-Mahalaxmi OF cable by XLPE cable- 6 km	Replacement of cable of 110 kV Camac-Grant Road
D-1	Creation of New Level	220 kV					
		110 kV					
		33 kV			33 kV Level creation at Malad (Transformer replacement with 110 kV / 22 kV / 33 kV (additional) level) (New)		
D-2	ICT - Addition	400 kV					
		220 kV			2 x 250 MVA 220 / 110 kV ICTs at Vikhroli with 220 kV Cable	2 x 250 MVA 220 / 110 kV ICTs at Waghivali with 220 kV Cable (New)	
D-3	ICT - Replacement	400 kV					
		220 kV			2 x 250 MVA, 220 kV / 110 kV / 22 kV ICT 1 & 2 (Salsette) (New)	2 x 250 MVA, 220 kV / 110 kV / 22 kV ICT 1 & 2 (Borivali) (New)	

D-4	Transformers - Addition	220 kV					
		110 kV					
D-5	Transformers - Replacement	220 kV					
		110 kV	2 x 90 MVA, 110 kV / 22 kV Transformers # 1&2 (Kolshet)	90 MVA, 110 kV / 33 kV Transformer#7 (Carnac)	75 MVA, 110 kV // 33 kV / 22 kV Transformer#2 (Malad)	75 MVA, 110 kV / 33-22 kV Transformer#3 (Saki)	
			2 x 30 MVA, 110 kV / 22 kV Transformers#1 & 2 (Mankhurd)				
E-1	Reactor - New	220 kV	2 X 40 MVAR (Karanjade) (New)	1 x 125 MVAR (Mahalaxmi) (New)	1 x 125 MVAR (Borivali) (New)		
			1 x 125 MVAR (Salsette) (New)	1 x 125 MVAR (Trombay) (New)			
		110 kV	2 X 10 MVAR (Karanjade) (New)				
				2 X 10 MVAr (Dharavi) (New)			
		33 kV		2 X 10 MVAr (Sahar) (New)			
				2 X 10 MVAr (Parel) (New)			
			2 X 10 MVAr (Saki) (New)				
E-2	Reactor-Shifting	400 kV					
F	Capacitor	33 kV		2 X 10 MVAR at Dharavi (New)			
				2 X 10 MVAR at Saki (New)			
				2 X 10 MVAR at Powai (New)			
				2 X 10 MVAR at Parel (New)			
		22 kV					

<b>G</b>	<b>Addition of Bays</b>	<b>220 kV</b>	2 nos of bays at Karanjade (2 X 40 MVAR reactor at Karanjade)	1 no of bay at Mahalaxmi (1 x 125 MVAR <b>Mahalaxmi</b> )	1 no of bay at Borivali (1 x 125 MVAR Borivali)		
			1 no of bay at Salsette (1 x 125 MVAR reactor at <b>Salsette</b> )	2 no of bay at Trombay (1 x 125 MVAR <b>Trombay</b> )			
		<b>110 kV</b>	2 nos of bays at Karanjade (2 X 10 MVAR reactor at Karanjade)	5 nos of bays at Dativali (Extending power to Dativali (C Rly))	2 nos of bays at Malad (Extending power to Metro 2 A)		
				5 nos bays at Wadala (Extending power to Wadala TSS (Metro))	2 nos of bays at Versova (Extending power to Metro 2 A)		
				5 nos of bays at Kanjurmarg (Extending power to Kanjurmarg TSS (C Rly))	2 nos of bays at Mahalaxmi (Extending power to Metro 2 A)		
		5 nos of bays at Mandola (Extending power to Mandale (Metro))					
<b>H</b>	<b>Switchgear replacement by GIS)</b>	<b>220 kV</b>	10 nos. 220 kV GIS Bays at Borivali S/S				
		<b>110 kV</b>	18 Nos. 110 kV GIS Bays at Carnac S/S	20 Nos. 110 kV GIS Bays at Vikhroli S/S	28 Nos. 110 kV GIS Bays at Parel along with 22 kV swuchgear replacement	13 Nos. 110 kV GIS Bays at Malad S/S (New)	
				MV AIS Switchgear replacement by GIS at Salsette, Chembur, Saki, Ambernath and Borivali	30 Nos. 110 kV GIS Bays at Dharavi S/S		
		<b>33 / 22 kV</b>					
<b>I</b>	<b>Miscellaneous</b>		Installation of Fire Protection System	Upgradation of present SBH (Synchronous Digital Hierarchy) based communication system with new technology MPLS system (Multi Protocol Level switching)	Replacement of Towers in Creek area		

Note

Schemes included in STU Plan are subject to recommendation of Maharashtra Transmission Committee (MTC) and approval of Grid co-ordination committee(GCC) as per MERC (Maharashtra Electricity Grid Code) Regulation 2020.

**AEML-T's Five Year STU Plan at Glance Sheet FY 2021-22 to FY 2025-26**

S. N.	Particulars	Voltage Level	2021-22	2022-23	2023-24	2024-25	2025-26
A1	EHV Substations	220kV		220/33 kV GIS EHV S/s at BKC (Golibar)	220/33 kV GIS EHV S/S at Dahisar		
				220KV Switching S/s at Ghodbunder (Augmentation of Borivali-Ghodbunder-Boisar LILO line)	220/33 kV GIS EHV S/S at Malad	220/33 kV Underground GIS EHV S/S at Khardanda	
				220/33 kV GIS EHV S/S at Kandivali	220/33 kV GIS EHV S/S at Chandivali (New)		220/33 kV GIS EHV Station at Airport
A2	Associated Lines	220kV		220KV Chembur BKC EHV S/s D/C Line (U/G cable) - 10.5 km	220 KV Ghodbunder - Dahisar D/C Line (U/G cable) - 6.5 km		
				LILO of 220kV Boisar-Versova Line at Kandivali - 2 km	LILO of 220kV AEML Aarey-Borivali OH line at Malad by laying 220kV D/C Underground Cable - 1 km	220kV D/C Versova - Khardanda line by Underground Cable -8 km	
					220 kV Aarey-Chandivali D/C line by U/G cable (New)		220 kV LILO of Aarey- BKC line at Airport
					220 kV LILO of TPC Salsette – Saki Line (220kV Chandivali EHV Scheme)		
B	Link Lines	220kV				220 kV D/C cable connectivity Between 220 kV AEML-T BKC and 220 kV AEML-T Aarey - 15 km	
							220kV D/C cable Connectivity Between Dahisar EHV Station – 220kV AEML-T Borivali EHV S/S - 6 km

C	Transformers – Addition	220kV				03rd, 220/33 kV, 125 MVA Transformer at BKC EHV S/s		
						03rd, 220/33 kV, 125 MVA Transformer at Kandivali EHV S/s	03rd, 220/33 kV, 125 MVA Transformer at Dahisar EHV S/s	
							03rd, 220/33 kV, 125 MVA Transformer at Malad EHV S/s	
							03rd, 220/33 kV, 125 MVA Transformer at Khardanda EHV S/s	
D	Reactor – Installation	220kV		100-120 MVAR Reactor at Gorai EHV S/s				
				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 Versova EHV S/s				
				220kV AIS to GIS Conversion at Ghodbunder EHV S/s				
				220kV AIS to GIS Conversion at Aarey EHV S/s (New)				
F	C4-HTLS	220kV					Line Augmentation with HTLS/ Twin Conductors (Aarey-Borivali, Versova-Aarey, Ghodbunder-Gorai, Ghodbunder-Versova )	
Note	Schemes included in STU Plan are subject to recommendation of Maharashtra Transmission Committee (MTC) and approval of Grid co-ordination committee(GCC) as per MERC (Maharashtra Electricity Grid Code) Regulation 2020.							

**AEMIL's Five Year STU Plan FY 2021-22 to FY 2025-26 At a Glance sheet**

MERC has issued Order (in case no. 190 of 2020) dated 21.03.2021 for Grant of Transmission Licensee to Adani Electricity Mumbai Infra Limited (AEMIL) to establish 1000 MW HVDC (VSC based) Scheme (Kudus – Aarey).

HVDC Scheme is proposed to be carried out by AEMIL, which is a 100% owned subsidiary of AEMIL.

S. N.	Particulars	Voltage Level	2021-22	2022-23	2023-24	2024-25	2025-26
A1	EHV Substations	± 320 kV				1000 MW HVDC ( VSC based) Terminal Stations at Kudus & Aarey	
A2	Associated Lines					HVDC Cable link lines between Kudus-Aarey -80 KMS route	



**KVTPL Five Year STU Plan FY 2021-22 to FY 2025-26 At a Glance sheet**

S. N.	Particulars	Voltage Level	2021-22	2022-23	2023-24	2024-25	2025-26
A1	EHV Substation	± 320 kV	400/220 kV GIS S/S with 3 x 500 MVA ICTs, Installation of 1 x 125 MVAR 400 kV Bus Reactor, 220 kV Spare Bays				
A2	Associated Lines		400 kV Kharghar-Vikhroli D/C & M/C line with bays at Kharghar & Vikhroli (with HTLS conductor of 2000 MW capacity per circuit) - 21.725 km				
			LILO on 400 kV Talegaon-Kalwa line at 400 kV Vikhroli GIS S/S - 12 km				
		LILO of existing 220 kV Trombay-Salsette I & II and 220 kV Trombay-Salsette III & IV at 400/220 kV Vikhroli					