

**BEFORE THE HON'BLE MAHARASHTRA ELECTRICITY REGULATORY
COMMISSION,
MUMBAI**

CASE NO. OF 2024

IN THE MATTER OF:

Application for the amendment of Transmission License under the provisions of Section 18 of the Electricity Act, 2003, the Maharashtra Electricity Regulatory Commission (Transmission License Conditions) Regulations, 2004 and under Regulation 105 of Maharashtra Electricity Regulatory Commission (Multi Year Tariff) Regulations, 2019;

AND

IN THE MATTER OF:

License for Transmission of Electricity, License No. 1 of 2011, granted to Adani Electricity Mumbai Limited by the Hon'ble Maharashtra Electricity Regulatory Commission under the provisions of Section 14 of the Electricity Act, 2003;

AND

IN THE MATTER OF:

Adani Electricity Mumbai Limited
Registered office:
Adani Corporate House, Shantigram,
Near Vaishno Devi Circle, S. G. Highway, Khodiyar,
Ahmedabad 382421, Gujarat.

Operation Office:
Devidas Lane, Off SVP Road,
Near Devidas Telephone Exchange,
Borivali (W), Mumbai - 400 103

...APPLICANT/PETITIONER

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THROUGH



**Adani Electricity Mumbai Limited
Petitioner**

**PLACE: NEW DELHI
DATE: 27.09.2024**

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MOST RESPECTFULLY SHEWETH:

1. The present petition is preferred by Adani Electricity Mumbai Limited (hereinafter referred as “**AEML-T/ Petitioner**”), in the capacity of a Transmission Licensee pursuant to the license granted by this Hon’ble Commission, vide License No. 1 of 2011, dated 11.08.2011 in terms of Section 14 of the Electricity Act, 2003 (“**EA03**”) and subsequently amended from time to time.

A copy of the Transmission License No. 1 of 2011, dated 11.08.2011 granted by this Hon’ble Commission to AEML-T is annexed herewith and marked as **ANNEXURE P-1.**

A copy of the amendment Transmission License dated 30.05.2023 granted by this Hon’ble Commission to AEML-T is annexed herewith and marked as **ANNEXURE P-2.**

2. That, the license along with the amendments thereto, granted to the Transmission business of the Petitioner (AEML-T), is for the purpose of transmitting electricity within the area of transmission (*as defined in the said License No. 1 of 2011, under Part II, Section 3, “Area of Transmission”*).
3. The aforesaid License, along with all its amendments made thereto, is asset specific license qua the Intra-State Transmission System (InSTS) of the State of Maharashtra, which inter-alia covers the Existing System and Proposed Systems as well as more specifically set out in the said license.
4. Accordingly, the Petitioner/ AEML-T by way of the present Petition is seeking fifth amendments to its Transmission License No. 1 of 2011 for giving effect to the changes/ updation of Transmission Lines and bays in the form of addition/ deletion/ modification.

5. **Need for filing of the present Petition:**

- a. The License issued to AEML-T is asset specific, which means that it authorizes AEML-T to create, operate and maintain assets that are specifically identified in the License. However, since AEML-T is not operating any specific transmission project, but is a Transmission Licensee for multiple transmission lines/ assets, there is a need to regularly update such specific transmission assets (lines and bays) mentioned in the License, as and when new systems are created or existing systems are removed or modified, or more systems are proposed to be added, in order to cater load of the State of Maharashtra.
- b. That, this Hon'ble Commission in its Order dated 13.03.2021 passed in Case 195 of 2019 has issued a direction that in future, AEML-T shall propose the schemes to be added in the license which are essential for the system and are included in the STU plan. The relevant extract of the said order is reproduced as under-

“38. Accordingly, the Commission thinks it appropriate to issue the following directions to AEML-T:-

.....

viii. Hence, AEML-T in future shall propose the schemes to be added in the licence which are essential for the system and are included in the STU plan. ”

- c. Accordingly, AEML-T is seeking for amendment to its License for incorporating following changes in its license:
 - Changes in Existing system:
 - Modification in ckt-km of transmission lines
 - Modification in number of 220 kV bays
 - Proposed system as per STU 10 year plan / DPRs submitted to Hon'ble Commission or STU:
 - Addition of new proposed transmission lines

- Addition of new proposed 220kV bays
- Addition of new proposed 33kV bays

6. STU ten year plan from FY 2024-25 to FY 2033-34 (as available on STU website link:

[https://www.mahatransco.in/uploads/docs/STU%20Plan%202024-](https://www.mahatransco.in/uploads/docs/STU%20Plan%202024-25%20to%202033-24.pdf)

[25%20to%202033-24.pdf](https://www.mahatransco.in/uploads/docs/STU%20Plan%202024-25%20to%202033-24.pdf)) includes the schemes identified to be developed by AEML-T. It is observed that few schemes which are part of STU Plan are not part of Petitioner/AEML-T's as amended license.

A copy of the downloaded STU Plan is annexed herewith and marked as **ANNEXURE P-3**.

A copy of the proposed amendment sought to the License is annexed herewith and marked as **ANNEXURE P-4**.

Considering the amendment sought, the recreated amendment to para “3. Area of Transmission” of the License No. 01 of 2011 is hereto annexed as **ANNEXURE P-5**, for approval of the Hon'ble Commission.

7. The summary of various proposed schemes comprising of proposed transmission lines and proposed Bays to be included under License is as under:

SN	Proposed Transmission Lines	Current Status
1	220kV Chembur to BKC transmission line 1 (12 km) from Chembur EHV sub-station to BKC EHV sub-station	- Part of existing License
2	220kV Chembur to BKC transmission line 2 (12 km) from Chembur EHV sub-station to BKC EHV sub-station	- DPR approved by MERC on 06.08.2021 - Under execution
3	220 kV LILO of KVPTL Vikhroli – TPC Saki Line (220kV Chandivali EHV Scheme) Ckt 1 (0.35 km)	- Part of existing License
4	220 kV LILO of KVPTL Vikhroli – TPC Saki Line (220kV Chandivali EHV Scheme) Ckt 2 (0.35 km)	- DPR approved by MERC on 25.04.2023 - Under execution

SN	Proposed Transmission Lines	Current Status
5	220 kV Ghodbunder-Dahisar transmission line 1 (6.50 km) from Ghodbunder EHV sub-station to Dahisar EHV sub-station	<ul style="list-style-type: none"> - Part of existing License - DPR submitted to MERC on 18.03.2024 For approval
6	220 kV Ghodbunder-Dahisar transmission line 2 (6.50 km) from Ghodbunder EHV sub-station to Dahisar EHV sub-station	
7	220kV Aarey to BKC transmission line 1 (17.50 km) from Aarey EHV sub-station to BKC EHV sub-station	<ul style="list-style-type: none"> - Part of License - DPR already approved by MERC on 08.08.2024 - Under execution
8	220kV Aarey to BKC transmission line 2 (17.50 km) from Aarey EHV sub-station to BKC EHV sub-station	
9	220kV LILO of DTPS/Boisar - Versova at Kandivali (W) EHV Station transmission line 1 (Boisar-Kandivali Connectivity) (4.20 km) from Boisar EHV sub-station to Kandivali EHV sub-station	<ul style="list-style-type: none"> - Part of existing License - DPR already approved by MERC on 26.09.2024
10	220kV LILO of DTPS/Boisar - Versova at Kandivali (W) EHV Station transmission line 2 (Boisar-Kandivali Connectivity) (4.20 km) from Boisar EHV sub-station to Kandivali EHV sub-station	
11	220 kV LILO of AEML Dahanu - Versova line (4 km) at Uttan Ckt1	<ul style="list-style-type: none"> - Part of STU 10 year plan - Scheme cleared by MTC and GCC in meeting dated 07.02.2023 and 11.05.2023 respectively - DPR approved by STU on 12.08.2024
12	220 kV LILO of AEML Dahanu - Versova line (4 km) at Uttan Ckt2	
13	220kV LILO of Aarey - BKC line at Khardanda by Underground Cable (Ckt 1) (3.50 km)	<ul style="list-style-type: none"> - Part of STU 10 year plan - Scheme cleared by MTC and GCC in meeting dated 13.03.2024 and 11.07.2024 respectively - DPR approved by STU on 12.08.2024
14	220kV LILO of Aarey - BKC line at Khardanda by Underground Cable (Ckt 2) (3.50 km)	

SN	Proposed Transmission Lines	Current Status
15	220 kV AEML Aarey to proposed 220kV Chandivali EHV Scheme Ckt 1 (3.00 km)	<ul style="list-style-type: none"> - Part of STU 10 year plan - Scheme cleared by MTC and GCC in meeting dated 29.07.2024 and 31.07.2024 respectively - DPR submitted to STU on 26.07.2023 For approval
16	220 kV AEML Aarey to 220kV TPC Saki EHV S/s Ckt 2 (3.60 km)	
17	LILO of Aarey-BKC Ckt 1 at Airport EHV Station (2.00 km) from Aarey EHV sub-station to BKC Ckt 1 at Airport EHV sub-station	<ul style="list-style-type: none"> - Part of existing License - Part of STU 10 year plan
18	LILO of Aarey-BKC Ckt 1 at Airport EHV Station (2.00 km) from Aarey EHV sub-station to BKC Ckt 2 at Airport EHV sub-station	
19	220kV Dahisar - Borivali transmission line 1 (6 km) from Dahisar EHV sub-station to Borivali EHV sub-station	<ul style="list-style-type: none"> - Part of existing License - Part of STU 10 year plan
20	220kV Dahisar - Borivali transmission line 2 (6 km) from Dahisar EHV sub-station to Borivali EHV sub-station	
21	LILO of 220kV AEML Aarey-TPC Borivali OH line at Malad by laying 220kV D/C Underground Cable (Ckt 1) (1.00 km)	<ul style="list-style-type: none"> - Part of existing License - Part of STU 10 year plan
22	LILO of 220kV AEML Aarey-TPC Borivali OH line at Malad by laying 220kV D/C Underground Cable (Ckt 2) (1.00 km)	
23	220kV TPC-T Sahar-AEML-T Airport transmission line 1 (1.50 km) from TPC-T Sahar EHV sub-station to AEML-T Airport EHV sub-station	<ul style="list-style-type: none"> - Part of STU 10 year plan
24	220kV TPC-T Sahar-AEML-T Airport transmission line 2 (1.50 km) from TPC-T Sahar EHV sub-station to AEML-T Airport EHV sub-station	
25	220kV LILO of TPC Trombay –Salsette Line at Tilak Nagar / Sidhartha Nagar EHV S/s (Ckt 1) (2 Kms)	<ul style="list-style-type: none"> - Part of STU 10 year plan
26	220kV LILO of TPC Trombay –Salsette Line at Tilak Nagar / Sidhartha Nagar EHV S/s (Ckt 2) (2 Kms)	

SN	Proposed Transmission Lines	Current Status
27	LILO of 220kV Aarey - Chandivali line at Nahar EHV S/s (Ckt 1) (4.5 Kms)	- Part of STU 10 year plan
28	LILO of 220kV Aarey - Chandivali line at Nahar EHV S/s (Ckt 2) (4.5 Kms)	
29	220kV Ghodbunder – Boisar / Borivali LILO at Kashi Village EHV S/s (Ckt 1) (0.5 Kms)	<ul style="list-style-type: none"> - Part of existing License - Part of STU 10 year plan - Scheme cleared by MTC and GCC in meeting dated 29.07.2024 and 31.07.2024 respectively - DPR submitted to STU on 20.05.2024 For approval
30	220kV Ghodbunder - Boisar / Borivali LILO at Kashi Village EHV S/s (Ckt 2) (0.5 Kms)	
31	220kV TPC Trombay – TPC Salsette LILO at Tagore Nagar S/s (Ckt 1) (0.5 Kms)	- Part of STU 10 year plan
32	220kV TPC Trombay – TPC Salsette LILO at Tagore Nagar S/s (Ckt 2) (0.5 Kms)	
33	LILO of MSETCL Borivali- Gorai at Vazira Naka (Don Bosco) EHV S/s (Ckt 1) (0.5 Kms)	- Part of STU 10 year plan
34	LILO of MSETCL Borivali- Gorai at Vazira Naka (Don Bosco) EHV S/s (Ckt 2) (0.5 Kms)	

Proposed 220 kV Sub-stations and their Bays				
Sr	Name of SS	220kV (b)	33kV (c)	Current Status
1	Aarey EHV Sub-station	2		- Part of existing License
		2		- Part of STU 10 year plan
2	Airport EHV Sub-station	10	43	<ul style="list-style-type: none"> - Part of existing License - Part of STU 10 year plan
3	Borivali EHV Sub-station	2	2	<ul style="list-style-type: none"> - Part of existing License - Part of STU 10 year plan
4	BKC EHV Sub-station	7	30	<ul style="list-style-type: none"> - Part of existing License - Under execution
		2		<ul style="list-style-type: none"> - Part of existing License - DPR already approved by MERC on 08.08.2024
		1	15	- Part of STU 10 year plan

Proposed 220 kV Sub-stations and their Bays				
Sr	Name of SS	220kV (b)	33kV (c)	Current Status
			2	- Part of STU 10 year plan
5	Dahisar EHV Sub-station	7	30	- Part of existing License - DPR submitted to MERC on 18.03.2024 for approval
		2		- Part of existing License - Part of STU 10 year plan
		1	15	- Part of STU 10 year plan
6	Ghodbunder EHV Sub-station		4	- Part of STU 10 year plan
7	Kandivali EHV Sub-station	7	30	- Part of existing License - DPR approved by MERC on 26.09.2024
		1	15	- Part of STU 10 year plan
8	Switching Station - Boisar - Ghodbunder	7		- Part of existing License - Part of STU 10 year plan - Scheme cleared by MTC and GCC in meeting dated 29.07.2024 and 31.07.2024 respectively - DPR submitted to STU on 20.05.2024 For approval
9	Versova EHV Sub-station	1	5	- Part of STU 10 year plan
10	Chembur EHV Sub-station	2		- Part of existing License - DPR approved by MERC on 06.08.2021 - Under execution
		1		- Part of existing License - DPR approved by MERC on 13.06.2024 - Under execution
11	Chandivali EHV Sub-station	7	30	- Part of existing License - DPR approved by MERC on 15.04.2023 - Under execution
		1		- Part of STU 10 year plan
		1	15	- Part of STU 10 year plan
12	Malad EHV Sub-station	7	30	- Part of existing License - Part of STU 10 year plan
		1	15	- Part of STU 10 year plan
13	Gorai EHV Sub-station		1	- Part of STU 10 year plan

Proposed 220 kV Sub-stations and their Bays				
Sr	Name of SS	220kV (b)	33kV (c)	Current Status
14	Khardanda EHV Sub-station	7	30	- Part of STU 10 year plan - Scheme cleared by MTC and GCC in meeting dated 13.03.2024 and 11.07.2024 respectively - DPR approved by STU on 12.08.2024
		1	15	- Part of STU 10 year plan
15	Uttan EHV Sub-station	7	30	- Part of STU 10 year plan - Scheme cleared by MTC and GCC in meeting dated 07.02.2023 and 11.05.2023 respectively - DPR approved by STU on 12.08.2024
		1	15	- Part of STU 10 year plan
16	Tilak Nagar/ Siddharth Nagar EHV Sub-station	8	45	- Part of STU 10 year plan
17	250 MW BESS Sub-station at Dahanu	10	48	- Part of STU 10 year plan
18	Nahar EHV Sub-Station	8	45	- Part of STU 10 year plan
19	Kashi EHV Sub-Station	8	45	- Part of STU 10 year plan
20	Tagore Nagar EHV Sub-Station	8	45	- Part of STU 10 year plan
21	Vazira Naka (Don Bosco) EHV S/s	7	30	- Part of STU 10 year plan

As can be seen from aforesaid table, many of the proposed schemes are already approved and recommended either by MTC/GCC or specified under STU 10 Year Plan for implementation by AEML-T. As such, this Hon'ble Commission is requested to consider the same while amending the License of AEML-T.

8. In addition to the aforesaid, reliance is also placed upon Section 18 of the EA03 which provides as follows:

“18. Amendment of licence -

(1) Where in its opinion the public interest so permits, the Appropriate Commission, may, on the application of the licensee or otherwise, make such alteration and amendments in the terms and conditions of his licence as it things fit:

Provided that, no such alterations or amendments shall be made except with the consent of the licensee unless such consent has, in the opinion of the Appropriate Commission, been unreasonably withheld.

(2) Before any alterations or amendments in the licence are made under this section, the following provisions shall have effect, namely: -

(a) where the licensee has made an application under subsection (1) proposing any alteration or modifications in his licence, the licensee shall publish a notice of such application with such particulars and in such manner as may be specified;

(b) in the case of an application proposing alterations or modifications in the area of supply comprising the whole or any part of any cantonment, aerodrome, fortress, arsenal, dockyard or camp or of any building or place in the occupation of the Government for defence purposes, the Appropriate Commission shall not make any alterations or modifications except with the consent of the Central Government;

(c) where any alterations or modifications in a licence are proposed to be made otherwise than on the application of the licensee, the Appropriate Commission shall publish the proposed alterations or modifications with such particulars and in such manner as may be specified;

(d) the Appropriate Commission shall not make any alterations or modification unless all suggestions or objections received within thirty days from the date of the first publication of the notice have been considered."

9. In accordance with the above, AEML-T by way of the present petition is approaching this Hon'ble Commission *inter-alia* seeking amendment of its Transmission License to recognize the changes in the transmission systems/ assets as specified in the accompanying Annexures, and accordingly seeks inclusion of those assets that are already developed/ identified to be developed by AEML-T, as per the STU's Five-year plan.

10. Furthermore, as per Sr. no. 17 of Part II of the Appendix 1 (Format for Filing of Capital Investment Scheme for In-Principle Approval) of the Maharashtra Electricity Regulatory Commission (Approval of Capital Investment) Regulations, 2022, one of the conditions of the assessment of the DPR for a capex scheme is the inclusion of the scheme in STU five year plan or Transmission License of the Licensee. Accordingly, AEML-T seeks inclusion of the assets corresponding to the schemes envisaged in future and appearing in the STU five year plan in AEML-T's Transmission Licensee through amendment.

11. Maintainability of the Petition

That, this Hon'ble Commission has the necessary jurisdiction to alter or to amend the terms and conditions of a transmission License, wherein, in its opinion, public interest so permits, under the provisions of Section 18, read with section 86 in general, and specifically 86(1)(d) of the EA03. Hence the present Petition is maintainable.

PRAYER

In the facts and circumstances as stated above, the Petitioner/ AEML-T prays that this Hon'ble Commission may graciously be pleased to:

- a. Allow amendment to the existing Transmission License of AEML (Transmission License No.1 of 2011), Part II: General Terms and Conditions, Section 3, Area of Transmission, so as to give effect to the changes as detailed in the present petition in terms of the provisions contemplated under Section 15 read with Section 18 and Section 86 of the Electricity Act, 2003 and the Maharashtra Electricity Regulatory Commission (Transmission License Conditions) Regulations 2004, in terms as stated in the present Petition;

- b. Allow additions/ alterations/ modifications/ changes to the Petition at a future date;
- c. Condone any inadvertent errors/ inconsistencies/ omissions, etc. as may be there in the Petition; and
- d. Pass any other Order as may be appropriate under the circumstances.



Adani Electricity Mumbai Limited
Petitioner

PLACE: NEW DELHI
DATE: 27.09.2024

**BEFORE THE HON'BLE MAHARASHTRA ELECTRICITY REGULATORY
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IN THE MATTER OF:

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Registered Office
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S. G. Highway, Khodiyar,
Ahmedabad 382421, Gujarat.

And office for communication at
CTS 407/A (New), 408 (Old)
Village Eksar, Devidas Lane, Off SVP Road,
Borivali (West), Mumbai 400 103

...PETITIONER

AFFIDAVIT

I, Manish Kumar, S/o. Late Braj Kishore Prasad, aged about 34 years, working for gain at Adani Electricity Mumbai Limited- Distribution, Petitioner, residing at A-12, Yogiswami Cooperative Housing Society, Borivali West, Mumbai-400091, presently at New Delhi, do hereby solemnly affirm and state as follows:



1. That I am the authorized representative of the Petitioner Company, in the abovementioned matter, I have been dealing with the matters relating to the abovementioned case and I am conversant with the facts of the case.
2. I have read the accompanying Petition and I say that its contents are true to my knowledge and belief and based on records which are believed to be true and correct.
3. The annexures, if any, filed along with the present Petition are true copies of their respective original.
4. I say that there are no proceedings pending in any court of law/ tribunal or arbitrator or any other authority, wherein the Petitioners are a party and where issues arising and/ or reliefs sought are identical or similar to the issues arising in the matter pending before the Commission.

D11810/2007
I identified the deponent who
has signed in my presence



[Signature]
... DEPONENT

VERIFICATION:

I, the Deponent above named do hereby verify that the contents of the above affidavit are true to my knowledge, no part of it is false and nothing material has been concealed therefrom.

27 SEP 2024
Verified at New Delhi on this the day of September, 2024.

[Signature]
... DEPONENT

27 SEP 2024
ATTESTED
NOTARY PUBLIC
(INDIA)

**BEFORE THE HON'BLE MAHARASHTRA ELECTRICITY REGULATORY
COMMISSION**

CASE NO. _____ OF 2024

IN THE MATTER OF:

Application for the amendment of Transmission License under the provisions of Section 18 of the Electricity Act, 2003, the Maharashtra Electricity Regulatory Commission (Transmission License Conditions) Regulations, 2004 and under Regulation 105 of Maharashtra Electricity Regulatory Commission (Multi Year Tariff) Regulations, 2019.

AND IN THE MATTER OF:

License for Transmission of Electricity, License No. 1 of 2011, granted to Adani Electricity Mumbai Limited by the Hon'ble Maharashtra Electricity Regulatory Commission under the provisions of Section 14 of the Electricity Act, 2003.

AND

IN THE MATTER OF:

Adani Electricity Mumbai Limited
Registered Office
Adani Corporate House, Shantigram,
Near Vaishno Devi Circle,
S. G. Highway, Khodiyar,
Ahmedabad 382421, Gujarat.

And office for communication at
CTS 407/A (New), 408 (Old)
Village Eksar, Devidas Lane, Off SVP Road,
Borivali (West), Mumbai 400 103

...PETITIONER

AFFIDAVIT

I, Manish Kumar, S/o. Late Braj Kishore Prasad, aged about 34 years, working for gain at Adani Electricity Mumbai Limited- Distribution, Petitioner, residing at A-12, Yogiswami Cooperative Housing Society, Borivali West, Mumbai-400091, presently at New Delhi, do hereby solemnly affirm and state as follows:



1. That I am the authorized representative of the Petitioner Company, in the abovementioned matter, I have been dealing with the matters relating to the abovementioned case and I am conversant with the facts of the case.
2. I have read the accompanying Petition and I say that its contents are true to my knowledge and belief and based on records which are believed to be true and correct.
3. The annexures, if any, filed along with the present Petition are true copies of their respective original.
4. I say that there are no proceedings pending in any court of law/ tribunal or arbitrator or any other authority, wherein the Petitioners are a party and where issues arising and/ or reliefs sought are identical or similar to the issues arising in the matter pending before the Commission.

D11810/2007
I identified the deponent who
has signed in my presence



[Signature]

... DEPONENT

VERIFICATION:

I, the Deponent above named do hereby verify that the contents of the above affidavit are true to my knowledge, no part of it is false and nothing material has been concealed therefrom.

27 SEP 2024

Verified at New Delhi on this the day of September, 2024.

[Signature]

... DEPONENT

27 SEP 2024
ATTESTED
NOTARY PUBLIC
(INDIA)

ANNEXURE P-1

MAHARASHTRA ELECTRICITY REGULATORY COMMISSION

World Trade Centre, Centre No.1, 13th floor, Cuffe Parade, Mumbai - 400 005.

Tel. No. 022 22163964/65/69 – Fax 022 22163976

E-mail mercindia@mercindia.org.in

Website: www.mercindia.org.in

TRANSMISSION LICENCE NO. 1 OF 2011

LICENCE FOR TRANSMISSION OF ELECTRICITY IN THE STATE OF MAHARASHTRA

Dated: August 11, 2011

Licence granted by the Maharashtra Electricity Regulatory Commission under Section 14 of the Electricity Act, 2003 to Reliance Infrastructure Limited (RInfra), having its registered office at H-Block, First Floor, Dhirubhai Ambani Knowledge City, Navi Mumbai – 400710 to transmit electricity within the area of transmission (as defined in this Licence, under Part II, section 3, “Area of Transmission”) and with the powers and upon the terms and conditions specified herein.

Part I: General

1. Short Title

This Licence may be called the **Transmission Licence for Reliance Infrastructure Limited (RInfra). (Licence No. 1 of 2011).**

2. Definitions

All the definitions specified under “Section 3. Definitions” of Maharashtra Electricity Regulatory Commission (Transmission Licence Conditions) Regulations, 2004 as amended in 2006 (“Transmission Licence Conditions Regulations”), shall be applicable for this Licence.

Words or expressions used herein and not defined shall have the meanings assigned to them in the Electricity Act, 2003.

Part II: General Terms and Conditions

3. Area of Transmission

The Licence authorizes the Transmission Licensee to establish and operate the following transmission lines inclusive of related infrastructure:

Existing System – Transmission Lines

1. 220 kV Dahanu-Ghodbunder-1 transmission line (85 km) from Dahanu to Ghodbunder EHV sub-station
2. 220 kV Dahanu-Ghodbunder-2 transmission line (84.99 km) from Dahanu to Ghodbunder EHV sub-station
3. 220 kV Dahanu-Boisar transmission line (31 km) from Dahanu to MSETCL Boisar sub-station
4. 220 kV Boisar-Versova transmission line (91 km) from MSETCL Boisar to Versova EHV sub-station
5. 220 kV Dahanu-Versova transmission line (106 km) from Dahanu to Versova EHV sub-station
6. 220 kV Ghodbunder-Gorai-1 transmission line (9.72 km) from Ghodbunder EHV sub-station to Versova EHV sub-station
7. 220 kV Gorai-Versova-1 transmission line (12.58 km) from Gorai EHV sub-station to Versova EHV sub-station
8. 220 kV Ghodbunder-Versova-2 transmission line (21 km) from Ghodbunder EHV sub-station to Versova EHV sub-station
9. 220 kV Versova-Goregaon-1 transmission line (4.20 km) from Versova EHV sub-station to Goregaon EHV sub-station
10. 220 kV Goregaon-Aarey-1 transmission line (4.97 km) from Goregaon EHV sub-station to Aarey EHV sub-station
11. 220 kV Versova-Aarey-2 transmission line (9 km) from Versova EHV sub-station to Aarey EHV sub-station
12. 220 kV Aarey-Saki-1 transmission line (3.9 km) from Aarey EHV sub-station to Saki EHV sub-station

13. 220 kV Aarey-Saki-2 transmission line (3.9 km) from Aarey EHV sub-station to Saki EHV sub-station
14. 220 kV Aarey-Borivili-1 transmission line (12 km) from TPC (Borivili) EHV sub-station to Aarey EHV sub-station
15. 220 kV Aarey-Borivili-2 transmission line (12 km) from TPC (Borivili) EHV sub-station to Aarey EHV sub-station

Existing System – List of EHV Substation Bays

1. 17 No. of 220 kV bays at 220 kV Aarey EHV Station
2. 12 No. of 220 kV bays at 220 kV Ghodbunder EHV Station
3. 15 No. of 220 kV bays at 220 kV Versova EHV Station
4. 9 No. of 220 kV bays at 220 kV Goregaon EHV Station
5. 9 No. of 220 kV bays at 220 kV Saki EHV Station

Proposed System – Transmission Lines

1. 220 kV Versova-Goregaon-2 transmission line (4.2 km) from Versova EHV sub-station to Goregaon EHV sub-station
2. 220 kV Goregaon-Aarey-2 transmission line (5 km) from Goregaon EHV sub-station to Aarey EHV sub-station
3. 220 kV Ghodbunder-Gorai-2 transmission line (10 km) from Ghodbunder EHV sub-station to Gorai EHV sub-station
4. 220 kV Gorai-Versova-2 transmission line (12.6 km) from Gorai EHV sub-station to Versova EHV sub-station
5. 220 kV MSETCL Borivili-Gorai-1 transmission line (10.5 km) from MSETCL Borivili EHV sub-station to Gorai EHV sub-station
6. 220 kV MSETCL Borivili-Gorai-2 transmission line (10.5 km) from MSETCL Borivili EHV sub-station to Gorai EHV sub-station
7. 220 kV TPC Borivili-RInfra Borivili-1 transmission line (0.5 km) from TPC Borivili EHV sub-station to RInfra Borivili EHV sub-station
8. 220 kV RInfra Borivili-Aarey-1 transmission line (12 km) from RInfra Borivili EHV sub-station to Aarey EHV sub-station

9. 220 kV MSETCL Borivili-R Borivili-1 transmission line (3.5 km) from MSETCL Borivili EHV sub-station to RInfra Borivili EHV sub-station
10. 220 kV MSETCL Borivili-R Borivili-2 transmission line (3.5 km) from MSETCL Borivili EHV sub-station to RInfra Borivili EHV sub-station
11. 220 kV Chembur-Trombay-1 transmission line (8.5 km) from Chembur EHV sub-station to MSETCL Trombay EHV sub-station
12. 220 kV Chembur-Trombay-2 transmission line (8.5 km) from Chembur EHV sub-station to MSETCL Trombay EHV sub-station
13. 220 kV MSETCL Boisar-Ghodbunder-1 transmission line (4 km) from MSETCL Boisar EHV sub-station to Ghodbunder EHV sub-station
14. 220 kV Ghodbunder-MSETCL Borivili-1 transmission line (4 km) from Ghodbunder EHV sub-station to MSETCL Borivili EHV sub-station
15. 220 kV Ghodbunder-Dahisar-1 transmission line (6.5 km) from Ghodbunder EHV sub-station to Dahisar EHV sub-station
16. 220 kV Ghodbunder-Dahisar-2 transmission line (6.5 km) from Ghodbunder EHV sub-station to Dahisar EHV sub-station
17. 220 kV Aarey-Nagari-Niwara-1 transmission line (7.5 km) from Aarey EHV sub-station to Nagari Niwara EHV sub-station
18. 220 kV Aarey-Nagari-Niwara-2 transmission line (7.5 km) from Aarey EHV sub-station to Nagari Niwara EHV sub-station
19. 220 kV Nagari Niwara-MSETCL Borivali-1 transmission line (7.5 km) from Nagari Niwara EHV sub-station to MSETCL Borivali EHV sub-station
20. 220 kV Nagari Niwara-MSETCL Borivali-2 transmission line (7.5 km) from Nagari Niwara EHV sub-station to MSETCL Borivili EHV sub-station
21. 220 kV Aarey-Airport-1 transmission line (5 km) from Aarey EHV sub-station to Airport EHV sub-station
22. 220 kV Aarey-Airport-2 transmission line (5 km) from Aarey EHV sub-station to Airport EHV sub-station
23. 220 kV Airport-Golibar-1 transmission line (6 km) from Airport EHV sub-station to Golibar EHV sub-station
24. 220 kV Airport-Golibar-2 transmission line (6 km) from Airport EHV sub-station to Golibar EHV sub-station

Proposed System – List of EHV Substation Bays

1. 2 No. of 220 kV bays at 220 kV Aarey EHV sub-station
2. 9 No. of 220 kV bays at 220 kV Gorai EHV sub-station
3. 11 No. of 220 kV bays at 220 kV RInfra Borivili EHV sub-station
4. 9 No. of 220 kV bays at 220 kV Chembur EHV sub-station
5. 6 No. of 220 kV bays at RInfra Ghodbunder EHV sub-station
6. 11 No. of 220 kV bays at 220 kV Dahisar EHV sub-station
7. 9 No. of 220 kV bays at 220 kV Nagari Niwara EHV sub-station
8. 10 No. of 220 kV bays at 220 kV Airport EHV sub-station
9. 8 No. of 220 kV bays at 220 kV Golibar EHV sub-station
10. In addition to the aforesaid sub-stations, there would be sub-stations of MSETCL at Borivili and MSETCL Trombay where Bays owned by RInfra are proposed. There would be 12 Nos. of such Bays.

NOTE:

1. The Transmission Licensee shall execute Connection Agreements with the other Licensees regarding the interconnection points of the above lines / sub-station bays, defining and documenting therein the exact details of the boundaries and interface points.

4. Commencement and term of licence

The Licence shall come into force from 16th August 2011 and, unless revoked earlier by the Commission in accordance with the provisions of Section 19 of the Electricity Act, 2003 shall remain in force for the period specified under sub-section (8) of Section 15 of the Electricity Act, 2003

5. Duties

- 5.1. The Transmission Licensee shall comply with all the applicable provisions of the Electricity Act, 2003, the rules prescribed thereunder and all regulations, orders and directions issued by the Commission from time to time.
- 5.2. The Transmission Licensee shall as soon as practicable, report to the Commission:-
 - a) any significant change in its circumstances which may affect the Transmission Licensee's ability to meet its obligations under the Electricity Act, 2003 , the rules

and regulations thereunder, directions and orders issued by the Commission, agreements or the Licence;

- b) any material breach, or likelihood thereof, of the provisions of the Electricity Act, 2003, the rules and the regulations thereunder, directions and orders issued by the Commission, agreement or the Licence, which was reasonably within his knowledge, along with the reasons there for, as soon as practicable; and
- c) any change in management control or major change in the shareholding pattern of the Transmission Licensee.

Explanation I – for the purpose of this clause, “management control” shall include the right to appoint majority of the directors or to control the management or policy decisions of the Transmission Licensee, including by virtue of shareholding or management rights or shareholders’ agreement or partnership deed or trust deed or voting agreement or in any other manner;

Explanation II – for the purpose of this clause, “major change in shareholding pattern” shall mean the acquisition, by such person as specified in Regulation 7 of the Securities and Exchange Board of India (Substantial Acquisition of Shares and Takeovers) Regulations, 1997, as in force from time to time, of such per cent of shares or voting rights in the Transmission Licensee as would entail a disclosure under sub-regulation (1) of that Regulation.

- 5.3. The Transmission Licensee shall seek the approval of the Commission before creating any encumbrance on the assets of the Licensed Business, except where such encumbrance is created for the purpose of the Licensed Business.
- 5.4. The Transmission Licensee may engage any of its subsidiaries or holding company or a subsidiary of such holding company to provide any goods or services to the Transmission Licensee in connection with the Licensed Business, subject to the following conditions and in compliance with the stipulations under “Part III: Specific Conditions of Licence”:
 - a) that the transaction shall be undertaken on an “arm’s-length basis” and at a value that is fair and reasonable in the circumstances, which for the purposes of this clause, shall mean with respect to any specific transaction, substantially on terms that would be obtained between the Transmission Licensee and a third party unrelated to and unconnected with the Transmission Licensee;
 - b) that the Transmission Licensee shall report to the Commission, for each financial year, the details of all transactions of the nature referred to in this Regulation entered into during the financial year;

- c) that the Transmission Licensee shall submit to the Commission, for each financial year, a certificate from a Chartered Accountant as regards compliance with the requirement of clause (a) above.

Explanation – for the purpose of this clause, the terms “subsidiary” and “holding company” shall have the same meaning as under Section 4 of the Companies Act, 1956.

6. Street Works

The Transmission Licensee may, undertake works upon any streets or parts of streets, railways, canals or waterways or parts thereof, either in the domain of Central Government, State Government, Semi Government and Municipal bodies or in private domain, only after obtaining all statutory permissions required to be obtained for undertaking such work.

7. Accounts

7.1. The financial year of the Transmission Licensee shall run from the first of April to the following thirty-first of March.

7.2. The Transmission Licensee shall, in respect of the Licensed Business and the Other Business:-

- a) keep such Allocation Statement as would be required, so that the revenues, costs, assets, liabilities, reserves and provisions for, or reasonably attributable to the Licensed Business are separately identifiable in the books of the Transmission Licensee;
- b) adopt a fair and transparent cost allocation mechanism for the reasonable allocation of joint and common costs between the Licensed Business and the Other Business;
- c) prepare on a consistent basis the Accounting Statements in accordance with the provisions of the Companies Act, 1956 and/or the standards or guidelines of the Institute of Chartered Accountants of India.

Explanation – References in this Licence Condition 7.2 to costs or liabilities of, or reasonably attributable to Licensed Business or Other Business shall be construed as excluding taxation, and capital liabilities which do not relate principally to such Business and interest thereon..

7.3. The Transmission Licensee shall upon request by any person make available a copy of its Accounting Statements to any person who may require it at a reasonable price not to exceed the photocopying charges.

8. Provision of Information to the Commission

The Transmission Licensee shall furnish to the Commission such information, documents and details related to the Licensed Business and/or the Other Business of the Transmission Licensee as the Commission may require.

9. Licence Fees

During the period the licence is in force the Transmission Licensee shall, by the 10th of April of every year, or such further period as the Commission may allow, pay to the Commission such licence fees as may be specified in MERC (Fees and Charges) Regulations, 2004 under Clause 3 of Schedule 1, which is reproduced below, or any subsequent amendments thereof:

<i>S. No.</i>	<i>Description</i>	<i>Fees in Rupees</i>
<i>(1)</i>	<i>(2)</i>	<i>(3)</i>
3.	<p><i>Annual Licence Fees for :</i></p> <p><i>(i) Transmission Licence.....</i></p> <p><i>Provided that the annual licence fee shall be payable in advance, at the commencement of the financial year, by all Licensees, including licensees referred to in the first, second, third, fourth and fifth provisos to Section 14 of the Act:</i></p> <p><i>Provided further that in the case of a Transmission Licence, the annual licence fee shall be calculated based on the approved/ estimated aggregate quantum of transmission capacity contracts for the ensuing financial year:</i></p> <p>.....</p> <p>.....</p>	<p><i>Rs 1,000 per MW of Transmission capacity contracts in force during the year or part thereof, subject to a minimum of Rs 1,00,000 and maximum of Rs 20,00,000</i></p>

10. Decision on Interpretation of Licence

The interpretation of the Licence and the terms and conditions thereof shall be as determined by the Commission.

11. Construction of Transmission System through Competitive Procurement Basis

- 11.1. The Transmission Licensee shall comply with the procedure for obtaining authorization under Section 164 of the Electricity Act, 2003. Accordingly, the licensee shall cause the transmission scheme to be published in the Official Gazette of GOM and in at least two local daily newspapers along with a notice of the date, not being less than two months after the date of such publication, before which any interested person may make a representation on such scheme. The licensee shall take into consideration the objections/

representations, before finalizing the optimal route alignment. Thereafter the licensee shall submit a certificate along with an application under Section 164 to the GOM.

11.2. The licensee shall obtain all the necessary permits, Statutory Clearances such as the clearance of Ministry of Environment and Forests, Right of way clearance etc and shall organise the construction management, cash flow and Investment plan in such a way so as to optimise on all the costs and interest thereon.

11.3. The construction and commissioning of the transmission system shall be executed through suitable packages, and contracts for these packages shall be awarded through Competitive Bidding basis. The licensee shall ensure that the contractors hired for the purpose possess the necessary specialised skills for satisfactory execution of jobs awarded.

12. Capital Expenditure

The licensee shall carry out the capital expenditure plan as approved by the Commission in the Business Plan as per MERC (Multi Year Tariff) Regulations, 2011. The licensee shall also execute the approved capital expenditure as far as possible within the stipulated time-frame as approved by the Commission.



(K.N. Khawarey)
Secretary, MERC

Maharashtra Electricity Regulatory Commission, Mumbai

Dated: August 11, 2011

MAHARASHTRA ELECTRICITY REGULATORY COMMISSION
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Tel. No. 022 22163964/65/69
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Website: www.merc.gov.in

Transmission Licence No. 1 of 2011 (Fourth Amendment)

In pursuance of the Commission's Order dated **30 May 2023 in Case No. 127 of 2022**, amendments are made in the Transmission Licence No. 1 of 2011 granted to Adani Mumbai Electricity Limited. The revised list of "Existing Transmission Lines", "Proposed List of Transmission Lines", "Existing Bays at Sub-station", and "Proposed List of Bays" that the Transmission Licensee is authorized to establish and operate, inclusive of the related infrastructure, after the fourth amendment is as follows:

"Existing Transmission Lines"

1. 220 kV Dahanu - Ghodbunder Transmission Line 1 (84.61 km) from Dahanu EHV sub-station to Ghodbunder EHV sub-station
2. 220 kV Dahanu - Ghodbunder Transmission Line 2 (84.61 km) from Dahanu EHV sub-station to Ghodbunder EHV sub-station
3. 220 kV Dahanu - MSETCL Viraj Transmission Line (23.68 km) from Dahanu EHV sub-station to MSETCL Viraj EHV sub-station
4. 220 kV MSETCL Viraj - MSETCL Boisar Transmission Line (4.23 km) from MSETCL Viraj EHV sub-station to MSETCL Boisar EHV sub-station
5. 220 kV MSETCL Boisar - Versova Transmission Line (91.38 km) from MSETCL Boisar EHV sub-station to Versova EHV sub-station
6. 220 kV Dahanu - Versova Transmission Line (106.11 km) from Dahanu EHV sub-station to Versova EHV sub-station
7. 220 kV Ghodbunder - Gorai Transmission Line (9.72 km) from Ghodbunder EHV sub-station to Gorai EHV sub-station
8. 220 kV Gorai - Versova Transmission Line (12.15 km) from Gorai EHV sub-station to Versova EHV sub-station
9. 220 kV Ghodbunder - Versova Transmission Line 2 (20.65 km) from Ghodbunder EHV sub-station to Versova EHV sub-station

10. 220 kV Versova - Goregaon Transmission Line 1 (4.23 km) from Versova EHV sub-station to Goregaon EHV sub-station
11. 220 kV Goregaon - Aarey Transmission Line 1 (5.04 km) from Goregaon EHV sub-station to Aarey EHV sub-station
12. 220 kV Versova - Goregaon Transmission Line 2 (4.23 km) from Versova EHV sub-station to Goregaon EHV sub-station
13. 220 kV Goregaon - Aarey Transmission Line 2 (5.05 km) from Goregaon EHV sub-station to Aarey EHV sub-station
14. 220 kV Aarey - Saki Transmission Line 1 (4.00 km) from Aarey EHV sub-station to Saki EHV sub-station
15. 220 kV Aarey - Saki Transmission Line 2 (4.00 km) from Aarey EHV sub-station to Saki EHV sub-station
16. 220 kV Aarey - TPC Borivali Transmission Line (12.15 km) from Aarey EHV sub-station to TPC Borivali EHV sub-station
17. 220 kV Aarey - AEML Borivali Transmission Line (12.53 km) from Aarey EHV sub-station to AEML Borivali EHV sub-station
18. 220 kV AEML Borivali - TPC Borivali Transmission Line (0.10 km) from AEML Borivali EHV sub-station to TPC Borivali EHV sub-station
19. 220 kV MSETCL Borivali - Gorai Transmission Line 1 (9.10 km) from MSETCL Borivali EHV sub-station to Gorai EHV sub-station
20. 220 kV MSETCL Borivali - Gorai Transmission Line 2 (9.10 km) from MSETCL Borivali EHV sub-station to Gorai EHV sub-station
21. 220 kV MSETCL Borivali - AEML Borivali Transmission Line 1 (2.70 km) from MSETCL Borivali EHV sub-station to AEML Borivali EHV sub-station
22. 220 kV MSETCL Borivali - AEML Borivali Transmission Line 2 (2.70 km) from MSETCL Borivali EHV sub-station to AEML Borivali EHV sub-station
23. 220 kV Chembur - MSETCL Trombay Transmission Line 1 (8.13 km) from Chembur EHV sub-station to MSETCL Trombay EHV sub-station
24. 220 kV Chembur - MSETCL Trombay Transmission Line 2 (8.13 km) from Chembur EHV sub-station to MSETCL Trombay EHV sub-station
25. 220 kV MSETCL Boisar (Tower No. 257) - Ghodbunder Transmission Line (4.29 km) from MSETCL Boisar EHV sub-station to Ghodbunder EHV sub-station
26. 220 kV Ghodbunder - MSETCL Borivali (Tower No. 257) Transmission Line (4.29 km) from Ghodbunder EHV sub-station to MSETCL Boisar EHV sub-station
27. 220 kV AEML Saki - TPC Saki Transmission Line 1 (1.25 km) from AEML Saki EHV sub-station to TPC Saki EHV sub-station

28. 220 kV AEML Saki - TPC Saki Transmission Line 2 (1.22 km) from AEML Saki EHV sub-station to TPC Saki EHV sub-station
29. 220kV Aarey - MSETCL Borivali line 1 (12.70 km) from Aarey EHV sub-station to MSETCL Borivali EHV sub-station
30. 220kV Aarey - MSETCL Borivali line 2 (12.70 km) from Aarey EHV sub-station to MSETCL Borivali EHV sub-station
31. 220kV MSETCL Nerul-AEML Chembur transmission line (LILO at telecom factory) (2.78 km) from MSETCL Nerul EHV sub-station to AEML Chembur EHV sub-station
32. 220kV AEML Chembur-MSETCL Trombay transmission line (LILO at telecom factory) (2.78 km) from AEML Chembur EHV sub-station to MSETCL Trombay EHV sub-station

“Existing Bays at Substation”

220 kV Substation			
Sr.No.	Name of SS	220 kV (a)	33 kV (b)
1	Aarey EHV Sub-station	17	82
2	Borivali EHV Sub-station	10	33
3	Chembur EHV Sub-station	10	42
4	Ghodbunder EHV Sub-station	19	59
5	Gorai EHV Sub-station	10	26
6	Goregaon EHV Sub-station	10	42
7	MSETCL Borivali EHV Sub-station	9	0
8	MSETCL Trombay EHV Sub-station	5	0
9	Saki EHV Sub-station	10	42
10	Versova EHV Sub-station	17	66

“Proposed Transmission Lines”

1. 220 kV Ghodbunder - Dahisar Transmission Line 1 (6.50 km) from Ghodbunder EHV sub-station to Dahisar EHV sub-station
2. 220 kV Ghodbunder - Dahisar Transmission Line 2 (6.50 km) from Ghodbunder EHV sub-station to Dahisar EHV sub-station
3. 220 kV Chembur to BKC (Golibar) Transmission Line 1 (12 km) from Chembur EHV sub-station to BKC (Golibar) EHV sub-station
4. 220 kV Chembur to BKC (Golibar) Transmission Line 2 (12 km) from Chembur EHV sub-station to BKC (Golibar) EHV sub-station
5. 220 kV Aarey to BKC (Golibar) Transmission Line 1 (15.00 km) Aarey EHV sub-station to BKC (Golibar) EHV sub-station
6. 220 kV Aarey to BKC (Golibar) Transmission Line 2 (15.00 km) Aarey EHV sub-station

- to BKC (Golibar) EHV sub-station
7. LILO of Aarey - BKC (Golibar) Ckt 1 at Airport EHV Station (4.00 km) from Aarey EHV sub-station to BKC (Golibar) Ckt 1 at Airport EHV sub-station
 8. 220 kV LILO of DTPS/Boisar - Versova at Kandivali (W) EHV Station Transmission Line 1 (Boisar - Kandivali Connectivity) (3.65 km) from Boisar EHV sub-station to Kandivali EHV sub-station
 9. 220 kV LILO of DTPS/Boisar - Versova at Kandivali (W) EHV Station Transmission Line 2 (Versova - Kandivali Connectivity) (3.65 km) from Versova EHV sub-station to Kandivali EHV sub-station
 10. 220 kV Dahisar - Borivali Transmission Line 1 (6.00 km) from Dahisar EHV sub-station to Borivali EHV sub-station
 11. 220 kV Dahisar - Borivali Transmission Line 2 (6.00 km) from Dahisar EHV sub-station to Borivali EHV sub-station
 12. 220 kV LILO of TPC Salsette – Saki Line (220kV Chandivali EHV Scheme) Ckt 1 (0.35 km)
 13. 220 kV LILO of TPC Salsette – Saki Line (220kV Chandivali EHV Scheme) Ckt 2 (0.35 km)
 14. 220 kV AEML Aarey to proposed 220kV Chandivali EHV Scheme Ckt 1 (3.50 km)
 15. 220 kV AEML Aarey to proposed 220kV Chandivali EHV Scheme Ckt 2 (3.50 km)
 16. LILO of 220kV AEML Aarey-Borivali OH line at Malad by laying 220kV D/C Underground Cable (Ckt 1) (1.00 km)
 17. LILO of 220kV AEML Aarey-Borivali OH line at Malad by laying 220kV D/C Underground Cable (Ckt 2) (1.00 km)

“Proposed List of EHV Substation Bays”

220 kV Substation			
Sr.No.	Name of Sub-Station	220 kV (a)	33 kV (b)
1	Aarey EHV Sub-station	3	
2	Airport EHV Sub-station	9	28
3	Borivali EHV Sub-station	2	2
4	BKC (Golibar) EHV Sub-station	10	30
5	Dahisar EHV Sub-station	10	30
6	Ghodbunder EHV Sub-station	2	4
7	Kandivali EHV Sub-station	8	30
8	Switching Station - Boisar – Ghodbunder	7	
9	Versova EHV Sub-station		5
10	Chembur EHV Sub-station	1	
11	Chandivali EHV Sub-station	7	30
12	Malad EHV Sub-station	8	30
13	Gorai EHV Sub-station		1

All the terms and conditions of the Original Transmission Licence No. 1 of 2011 issued by the Commission will continue to be applicable to the fourth amendment to Transmission to Licence.

Secretary, MERC


(Dr. Rajendra Ambekar)
I/c Secretary



Maharashtra Electricity Regulatory Commission,
Mumbai

Dated: 30 May, 2023

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 Dugarbid - 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
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 kV/s/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										
		220kV										
C-1	2nd CIRCUIT STRING	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- Manjarumbha - 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 -79ekt 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										
		400kV										
D-1	CREATION OF NEW LEVEL	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)MV A220/132kV							
				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, 1x 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/I 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											

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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 Shirolí 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										
		220kV										
		132kV										
F	CAPACITOR		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)								

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 (Upgradation 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
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 Akalkuwa 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											

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										
		400kV										
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								

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)								
			Chalisgaon (1X200)MVA 220/132kV (WIP) (spill Over)									
		220kv	1X100 MVA 220/132kV ICT 220kV Kekatnimbhora (RE)									
			1X100 MVA 220/132kV ICT 220kV Shivajinagar.									
D-3	REPLACEMENT OF CONDUCTOR	400kV		Dhule 3 X (167-105)MVA 400/220 kV (third ICT replacement existing 2x500MVA +1x315)	Babhleshwar 3x(167-105)MVA 400/220kV							

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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-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						

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			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)						
			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										
A-2	ASSOCIATED LINES	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)							
		220kV	L.ILO 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)							

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 Babbleshwar - 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 ekt 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)							

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-Babbleshwar 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 132kv 33kv			Knowledge Park (2X100)MVA 220/132kV							
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 Walchandnagar 1X(200-100)MVA 220/132kV Pandharpur 1X(200-100)MVA 220/132-100kV	Lonikand II 2X(200-100)MVA 220/132kV Chakan Phase II 2X(200-100) MVA 220/132kV 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 Bridgestone (1x50) MVA 220/33kV Urse (1X50)MVA 220/22kV							
		132kV		Sanaswadi (1x50)MVA 132/33kV Mohol (1x50)MVA 132/33kV (NEW) Manegaon(1x50)MVA 132/33kV (NEW) MSKVY	Rahatani (1x50)MVA 132/22kV Sangola (1x50)MVA 132/33kV (NEW) 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										
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								

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)	Providing 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-Wadkhali 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										

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										
		220kV										
C-3	REPLACEMENT OF CONDUCTOR	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)								

[illegible]

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 maintenace 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. 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. 2) MERC approval awaited.	2024-25
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. 2) MERC approval awaited.	2024-25
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 Nos 110/11 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			

		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	----	----	----	----
		400 kV	----	----	----	----		----	----	----	----	----
D-3	ICT - Replacement	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 Transformer along with 220 kV bay extension and installation of 22 kV GIS Bus	----	----	----	----	----	----
		220 kV	----	----	----	----		----	----	----	----	----
D-5	Transformers - Replacement	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 Trombay 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 additional 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 AEMIL 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- Goral at Vazira Naka EHV S/s - 1 Ckt. Km				
B	Link Lines	220kV				220kV D/C cable Connectivity Between Dahisar EHV Station – 220kV AEMIL-T Borivali EHV S/S - 12 Ckt. Km route	220 kV D/C cable connectivity Between 220 kV AEMIL-T BKC and 220 kV AEMIL-T Aarey - 35 Ckt. km					
						220kV S/C from AEMIL Aarey to AEMIL Chandivali and S/C from AEMIL Aarey to TPC Saki- 6.6 Ckt. Kms	220kV Cable system between TPC Sahar to AEMIL 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 Tagor Nagar EHV S/s	3rd Transformer at Kashi Village 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 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 AEMIL-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 Lines			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
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			250		2025-26
							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	3000	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						
				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	1000	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						
				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			
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	6000	120		240 MVar Bus Reactor @ 765kV level	PADHGE LINE: 2026-27 APTA LINE: 2028-29
				4x1500MVA, 765/400kV ICT						
				400 kV connectivity to Datacenter Consumers						
				4x500MVA, 400/220kV ICT			2000			
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	1500	160		125 MVar Bus Reactor @ 400kV level	2026-27
				3x300MVA , 400/132kV ICT						
				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	3000	300		240 MVar 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						
				2x500MVA , 400/220kV ICT						
				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 Bhrmahapuri (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 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	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		240 MVar Bus Reactor @ 765kV level	2028-29
				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 @ 765kV level	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	765 kV 2x D/C line from 765kV Kandalgaon (New) to 765kV Dolvi (New)	Demand HotSpot		260			2028-29 (AC) & 2029-30 (DC)
				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 @ 765kV level	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	400kV S/C UG Cable from 400kV Mazgaon (New) to Mahalaxmi (New)	Demand HotSpot (HVDC Converter Station)		9		125 MVar Bus Reactor @ 400kV level	2029-30
				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	400kV Trombay(New) - Vikhroli D/c	Demand HotSpot (HVDC Converter Station)		15		125 MVar Bus Reactor @ 400kV level	2029-30
				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 @ 400kV level	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 @ 400kV level	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/Kalamamb(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/Tuljapur 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 (Vadhwani)	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	400kV D/C line from 400kV Aarey (New) to 400kV Chandivali (New)	Demand HotSpot	8	125 MVar Bus Reactor @ 400	2029-30
			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		

Proposed Amendments to Existing Transmission Lines:

SN	Particulars / Ckt. Km	As per Licence (Including all amendments)	Revised	Remarks
1	220 kV Dahanu - Ghodbunder Transmission Line 1 (84.58 84.61 km) from Dahanu EHV substation to Ghodbunder EHV sub-station	84.61	84.58	Change in ckt km due to line diversion work (DFCCIL, NHRCL, CASLLP) (-0.03)
2	220 kV Dahanu - Ghodbunder Transmission Line 2 (84.58 84.61 km) from Dahanu EHV substation to Ghodbunder EHV sub-station	84.61	84.58	Change in ckt km due to line diversion work (DFCCIL, NHRCL, CASLLP) (-0.03)
3	220 kV Dahanu - MSETCL Viraj Transmission Line (23.68 26.42 km) from Dahanu EHV substation to MSETCL Viraj EHV sub-stati	23.68	26.42	Typo correction (23.68 to 26.38), Change in ckt km due to line diversion work (DFCCIL, NHRCL) (+0.041)
4	220 kV MSETCL Viraj - MSETCL Boisar Transmission Line (4.23 4.24 km) from MSETCL Viraj EHV sub- station to MSETCL Boisar EHV sub station	4.23	4.24	Change in ckt km due to line diversion work (NHRCL) (+0.006)
5	220 kV MSETCL Boisar - Versova Transmission Line (91.38 91.03 km) from MSETCL Boisar EHV sub- station to Versova EHV sub station	91.38	91.03	Change in ckt km due to line diversion work (NHRCL,DFCCIL,CASLLP,Metro-9) (-0.352)
6	220 kV Dahanu - Versova Transmission Line (106.11 105.92 km) from Dahanu EHV sub-station to Versova EHV sub station	106.11	105.92	Change in ckt km due to line diversion work (DFCCIL,NHRCL,CASLLP,Metro-9) (-0.189)
7	220 kV Ghodbunder - Gorai Transmission Line (9.72 9.76 km) from Ghodbunder EHV substation to Gorai EHV sub station	9.72	9.76	Change in ckt km due to line diversion work (Metro-9) (+0.036)
8	220 kV Gorai - Versova Transmission Line (12.15 km) from Gorai EHV sub-station to Versova EHV sub station	12.15	12.15	
9	220 kV Ghodbunder - Versova Transmission Line 2 (20.65 20.69 km) from Ghodbunder EHV sub-station to Versova EHV sub station	20.65	20.69	Change in ckt km due to line diversion work (Metro-9) (+0.036)

SN	Particulars / Ckt. Km	As per Licence (Including all amendments)	Revised	Remarks
10	220 kV Versova - Goregaon Transmission Line 1 (4.23 4.26 km) from Versova EHV substation to Goregaon EHV sub statio	4.23	4.26	Change in ckt km due to line diversion work (DMRC) (+0.028)
11	220 kV Goregaon - Aarey Transmission Line 1 (5.04 5.19 km) from Goregaon EHV substation to Aarey EHV sub station	5.04	5.19	' Increase in Length by (+0.152) during AIS to GIS Conversion
12	220 kV Versova - Goregaon Transmission Line 2 (4.23 4.24 km) from Versova EHV substation to Goregaon EHV sub	4.23	4.24	Change in ckt km due to line diversion work (DMRC) (+0.008)
13	220 kV Goregaon - Aarey Transmission Line 2 (5.05 5.20 km) from Goregaon EHV substation to Aarey EHV sub station	5.05	5.20	Increase in Length by 150m during AIS to GIS Conversion
14	220 kV Aarey - Saki Transmission Line 1 (4.00 km) from Aarey EHV sub-station to Saki EHV sub station	4.00	4.00	
15	220 kV Aarey - Saki Transmission Line 2 (4.00 km) from Aarey EHV sub-station to Saki EHV sub station	4.00	4.00	
16	220 kV Aarey - TPC Borivali Transmission Line (12.15 12.21 km) from Aarey EHV substation to TPC Borivali EHV sub s	12.15	12.21	Increase in Length by 58m during AIS to GIS Conversion
17	220 kV Aarey - AEML Borivali Transmission Line (12.53 12.60 km) from Aarey EHV substation to AEML Borivali EHV sub station	12.53	12.60	' Increase in Length by 70m during AIS to GIS Conversion

SN	Particulars / Ckt. Km	As per Licence (Including all amendments)	Revised	Remarks
18	220 kV AEML Borivali - TPC Borivali Transmission Line (0.10 km) from AEML Borivali EHV sub-station to TPC Borivali EHV sub station	0.10	0.10	
19	220 kV MSETCL Borivali - Gorai Transmission Line 1 (9.10 km) from MSETCL Borivali EHV sub-station to Gorai EHV sub station	9.10	9.10	
20	220 kV MSETCL Borivali - Gorai Transmission Line 2 (9.10 km) from MSETCL Borivali EHV sub-station to Gorai EHV sub station	9.10	9.10	
21	220 kV MSETCL Borivali - AEML Borivali Transmission Line 1 (2.70 km) from MSETCL Borivali EHV sub-station to AEML Borivali EHV sub station	2.70	2.70	
22	220 kV MSETCL Borivali - AEML Borivali Transmission Line 2 (2.70 km) from MSETCL Borivali EHV sub-station to AEML Borivali EHV sub station	2.70	2.70	
23	220 kV Chembur - MSETCL Trombay Transmission Line 1 (8.13 km) from Chembur EHV sub-station to MSETCL Trombay EHV sub station	8.13	8.13	
24	220 kV Chembur - MSETCL Trombay Transmission Line 2 (8.13 km) from Chembur EHV sub-station to MSETCL Trombay EHV sub station	8.13	8.13	
25	220 kV MSETCL Boisar (Tower No. 257) - Ghodbunder Transmission Line (4.29 km) from MSETCL Boisar EHV sub-station to Ghodbunder EHV sub station	4.29	4.29	
26	220 kV Ghodbunder - MSETCL Borivali (Tower No. 257) Transmission Line (4.29 km) from Ghodbunder EHV sub-station to MSETCL Boisar EHV sub station	4.29	4.29	

SN	Particulars / Ckt. Km	As per Licence (Including all amendments)	Revised	Remarks
27	220 kV AEML Saki - TPC Saki Transmission Line 1 (1.25 km) from AEML Saki EHV sub-station to TPC Saki EHV sub station	1.25	1.25	
28	220 kV AEML Saki - TPC Saki Transmission Line 2 (1.22 km) from AEML Saki EHV sub-station to TPC Saki EHV sub station	1.22	1.22	
29	220 kV Aarey to MSETCL Borivali line 1 (12.70 km) from Aarey EHV sub-station to MSETCL Borivali EHV sub-station	12.70	12.70	
30	220 kV Aarey to MSETCL Borivali line 2 (12.70 km) from Aarey EHV sub-station to MSETCL Borivali EHV sub-station	12.70	12.70	
31	220 kV MSETCL Nerul-AEML Chembur Transmission Line (LILO at telecom factory) (2.78 km) from MSETCL Nerul EHV sub-station to AEML Chembur EHV sub-station	2.78	2.78	
32	220 kV AEML Chembur-MSETCL Trombay Transmission Line (LILO at telecom factory) (2.78 km) from AEML Chembur EHV sub-station to MSETCL Trombay EHV sub-station	2.78	2.78	

Proposed Amendments to Existing Bays at Substation:

		As per Licence (Including all amendments)		Revised		Remarks
Sr. No.	Name of SS	220kV (a)	33kV (b)	220kV (a)	33kV (b)	
1	Aarey EHV Sub-station	17	82	18	82	1 no. Bay increased due to AIS to GIS conversion at Aarey EHV Sub-station (Removed 1 no. of TBC Bay and incl. 2 nos. of PT Bays) - Shifted from proposed to existing
2	Borivali EHV Sub-station	10	33	10	33	
3	Chembur EHV Sub-station	10	42	10	42	
4	Ghodbunder EHV Sub-station	19	59	19	59	
5	Gorai EHV Sub-station	10	26	10	26	
6	Goregaon EHV Sub-station	10	42	10	42	
7	MSETCL Borivali EHV Sub-station	9	0	9	0	
8	MSETCL Trombay EHV Sub-station	5	0	5	0	
9	Saki EHV Sub-station	10	42	10	42	
10	Versova EHV Sub-station	17	66	17	66	
		117	392	118	392	

Proposed Amendments to Proposed Transmission Lines:

SN	Particulars	As per Licence (Including all amendments)	Revised	Remarks
		Ckt. Km	Ckt. Km	
1	220kV Chembur to BKC transmission line 1 (12 km) from Chembur EHV sub-station to BKC EHV sub-station	12.00	12.00	- No Change - As per latest STU 10 year plan for FY 25 - FY 34 (Part A2 - Associated lines) (COD : FY25)
2	220kV Chembur to BKC transmission line 2 (12 km) from Chembur EHV sub-station to BKC EHV sub-station	12.00	12.00	- No Change - As per latest STU 10 year plan for FY 25 - FY 34 (Part A2 - Associated lines) (COD : FY25)
3	220 kV LILO of KVPTL Vikhroli TPC Salsette – TPC Saki Line (220kV Chandivali EHV Scheme) Ckt 1 (0.35 km)	0.35	0.35	- No Change - As per latest STU 10 year plan for FY 25 - FY 34 (Part A2 - Associated lines) (COD : FY26)
4	220 kV LILO of KVPTL Vikhroli TPC Salsette – TPC Saki Line (220kV Chandivali EHV Scheme) Ckt 2 (0.35 km)	0.35	0.35	- No Change - As per latest STU 10 year plan for FY 25 - FY 34 (Part A2 - Associated lines) (COD : FY26)
5	220 kV Ghodbunder-Dahisar transmission line 1 (6.50 km) from Ghodbunder EHV sub-station to Dahisar EHV sub-station	6.50	6.50	- No Change - As per latest STU 10 year plan for FY 25 - FY 34 (Part A2 - Associated lines) (COD : FY27)
6	220 kV Ghodbunder-Dahisar transmission line 2 (6.50 km) from Ghodbunder EHV sub-station to Dahisar EHV sub-station	6.50	6.50	- No Change - As per latest STU 10 year plan for FY 25 - FY 34 (Part A2 - Associated lines) (COD : FY27)
7	220kV Aarey to BKC transmission line 1 (15 17.50 km) from Aarey EHV sub-station to BKC EHV sub-station	15.00	17.50	- MERC approval received on 08.08.2024 - As per latest STU 10 year plan for FY 25 - FY 34 (Part B - Link lines)

SN	Particulars	As per Licence (Including all amendments)	Revised	Remarks
		Ckt. Km	Ckt. Km	
				(COD : FY29)
8	220kV Aarey to BKC transmission line 2 (15 17.50 km) from Aarey EHV sub-station to BKC EHV sub-station	15.00	17.50	- MERC approval received on 08.08.2024 - As per latest STU 10 year plan for FY 25 - FY 34 (Part B - Link lines) (COD : FY29)
9	220kV LILO of DTPS/Boisar - Versova at Kandivali (W) EHV Station transmission line 1 (Boisar-Kandivali Connectivity) (3.65 4.20 km) from Boisar EHV sub-station to Kandivali EHV sub-station	3.65	4.20	- Revised line length as per Kandivali EHV Stn DPR submitted to MERC dated 31.01.2024 - As per latest STU 10 year plan for FY 25 - FY 34 (Part A2 - Associated lines) (COD : FY 27)
10	220kV LILO of DTPS/Boisar - Versova at Kandivali (W) EHV Station transmission line 2 (Boisar-Kandivali Connectivity) (3.65 4.20 km) from Boisar EHV sub-station to Kandivali EHV sub-station	3.65	4.20	- Revised line length as per Kandivali EHV Stn DPR submitted to MERC dated 31.01.2024 - As per latest STU 10 year plan for FY 25 - FY 34 (Part A2 - Associated lines) (COD : FY 27)
11	220 kV LILO of AEML Dahanu - Versova line (4 km) at Uttan Ckt1		4.00	- New proposed scheme included. - As per latest STU 10 year plan for FY 25 - FY 34 (Part A2 - Associated lines) (COD : FY 27)
12	220 kV LILO of AEML Dahanu - Versova line (4 km) at Uttan Ckt2		4.00	- New proposed scheme included. - As per latest STU 10 year plan for FY 25 - FY 34 (Part A2 - Associated lines) (COD : FY 27)

SN	Particulars	As per Licence (Including all amendments)	Revised	Remarks
		Ckt. Km	Ckt. Km	
13	220kV LILO of Aarey - BKC line at Khardanda by Underground Cable (Ckt 1) (3.50 km)		3.50	- New proposed scheme included. - Line length as per Khardanda DPR submitted to STU dated 28.08.2023. - As per latest STU 10 year plan for FY 25 - FY 34 (Part A2 - Associated lines) (COD : FY 28)
14	220kV LILO of Aarey - BKC line at Khardanda by Underground Cable (Ckt 2) (3.50 km)		3.50	- New proposed scheme included. - Line length as per Khardanda DPR submitted to STU dated 28.08.2023. - As per latest STU 10 year plan for FY 25 - FY 34 (Part A2 - Associated lines) (COD : FY 28)
15	220 kV AEML Aarey to proposed 220kV Chandivali EHV Scheme Ckt 1 (3.50 3.00 km)	3.50	3.00	- As per STU MoM dated 12.02.2024, 220kV Aarey-Chandivali S/C considered. - As per latest STU 10 year plan for FY 25 - FY 34 (Part B- Link Lines) (COD : FY28)
16	220 kV AEML Aarey to proposed 220kV Chandivali 220kV TPC Saki EHV Scheme Ckt 2 (3.50 3.60 km)	3.50	3.60	- As per STU MoM dated 12.02.2024, 220kV Aarey-TPC Saki S/C considered. - Line length proposed considering the line length of existing AEML Aarey- AEML Saki connectivity. - As per latest STU 10 year plan for FY 25 - FY 34 (Part B- Link Lines) (COD : FY28)

SN	Particulars	As per Licence (Including all amendments)	Revised	Remarks
		Ckt. Km	Ckt. Km	
17	LILO of Aarey-BKC Ckt 1 at Airport EHV Station (4.00 2.00 km) from Aarey EHV sub-station to BKC Ckt 1 at Airport EHV sub-station	4.00	2.00	- Included ckt.km length of each ckt. - As per latest STU 10year plan for FY 25 - FY 34 (Part A2 - Associated lines) (COD : FY 29) - Line 1 separately shown
18	LILO of Aarey-BKC Ckt 1 at Airport EHV Station (2.00 km) from Aarey EHV sub-station to BKC Ckt 2 at Airport EHV sub-station		2.00	- Included ckt.km length of each ckt. - As per latest STU 10 year plan for FY 25 - FY 34 (Part A2 - Associated lines) (COD : FY 29) - Line 2 separately shown
19	220kV Dahisar - Borivali transmission line 1 (6 km) from Dahisar EHV sub-station to Borivali EHV sub-station	6.00	6.00	- No Change. - As per latest STU 10 year plan for FY 25 - FY 34 (Part B - Link lines) (COD : FY 28)
20	220kV Dahisar - Borivali transmission line 2 (6 km) from Dahisar EHV sub-station to Borivali EHV sub-station	6.00	6.00	- No Change. - As per latest STU 10 year plan for FY 25 - FY 34 (Part B - Link lines) (COD : FY 28)
21	LILO of 220kV AEML Aarey-TPC Borivali OH line at Malad by laying 220kV D/C Underground Cable (Ckt 1) (1.00 km)	1.00	1.00	- No Change - As per latest STU 10 year plan for FY 25 - FY 34 (Part A2 - Associated lines) (COD : FY29)
22	LILO of 220kV AEML Aarey-TPC Borivali OH line at Malad by laying 220kV D/C Underground Cable (Ckt 2) (1.00 km)	1.00	1.00	- No Change - As per latest STU 10 year plan for FY 25 - FY 34 (Part A2 - Associated lines) (COD : FY29)
23	220kV TPC-T Sahar-AEML-T Airport transmission line 1 (1.50 km) from TPC-T Sahar EHV sub-station to AEML-T Airport EHV sub-station		1.50	- New proposed scheme included. - As per latest STU 10 year plan for

SN	Particulars	As per Licence (Including all amendments)	Revised	Remarks
		Ckt. Km	Ckt. Km	
				FY 25 - FY 34 (Part B - Link lines) (COD : FY 29)
24	220kV TPC-T Sahar-AEML-T Airport transmission line 2 (1.50 km) from TPC-T Sahar EHV sub-station to AEML-T Airport EHV sub-station		1.50	- New proposed scheme included. - As per latest STU 10 year plan for FY 25 - FY 34 (Part B - Link lines) (COD : FY 29)
25	220kV LILO of TPC Trombay –Salsette Line at Tilak Nagar / Sidhartha Nagar EHV S/s (Ckt 1) (2 Kms)		2.00	- New proposed scheme included. - As per latest STU 10 year plan for FY 25 - FY 34 (Part A2 - Associated lines) (COD : FY 28)
26	220kV LILO of TPC Trombay –Salsette Line at Tilak Nagar / Sidhartha Nagar EHV S/s (Ckt 2) (2 Kms)		2.00	- New proposed scheme included. - As per latest STU 10 year plan for FY 25 - FY 34 (Part A2 - Associated lines) (COD : FY 28)
27	LILO of 220kV Aarey - Chandivali line at Nahar EHV S/s (Ckt 1) (4.5 Kms)		4.5	- New proposed scheme. - As per STU 10 Year Plan for FY 25-FY34 by STU (Part A2, COD FY 28)
28	LILO of 220kV Aarey - Chandivali line at Nahar EHV S/s (Ckt 2) (4.5 Kms)		4.5	- New proposed scheme. - As per STU 10 Year Plan for FY 25-FY34 by STU (Part A2, COD FY 28)
29	220kV Ghodbunder – Boisar / Borivali LILO at Kashi Village EHV S/s (Ckt 1) (0.5 Kms)		0.5	- New proposed scheme. - As per STU 10 Year Plan for FY 25-FY34 by STU (Part A2, COD FY 30)
30	220kV Ghodbunder - Boisar / Borivali LILO at Kashi Village EHV S/s (Ckt 2) (0.5 Kms)		0.5	- New proposed scheme. - As per STU 10 Year Plan for FY 25-FY34 by STU (Part A2, COD FY 30)

SN	Particulars	As per Licence (Including all amendments)	Revised	Remarks
		Ckt. Km	Ckt. Km	
31	220kV TPC Trombay – TPC Salsette LILO at Tagore Nagar S/s (Ckt 1) (0.5 Kms)		0.5	- New proposed scheme. - As per STU 10 Year Plan for FY 25-FY34 by STU (Part A2, COD FY 30)
32	220kV TPC Trombay – TPC Salsette LILO at Tagore Nagar S/s (Ckt 2) (0.5 Kms)		0.5	- New proposed scheme. - As per STU 10 Year Plan for FY 25-FY34 by STU (Part A2, COD FY 30)
33	LILO of MSETCL Borivali- Gorai at Vazira Naka EHV S/s (Ckt 1) (0.5 Kms)		0.5	- New proposed scheme. - As per STU 10 Year Plan for FY 25-FY34 by STU (Part A2, COD FY 30)
34	LILO of MSETCL Borivali- Gorai at Vazira Naka EHV S/s (Ckt 2) (0.5 Kms)		0.5	- New proposed scheme. - As per STU 10 Year Plan for FY 25-FY34 by STU (Part A2, COD FY 30)

Proposed Amendments to Proposed Bays at Substation:

Sr. No.	Name of SS	As per Licence (Fourth Amendment dated 30.05.2023)		Revised		Remarks
		220kV (a)	33kV (b)	220kV (a)	33kV (b)	
1	BKC EHV Sub-station	10	30	7	30	220kV: 1. 07 nos. of bays at BKC - as per latest STU 10 year plan for FY 25 - FY 34 (part A1 - EHV Stations) (COD FY 25) 33kV: 1. 2 nos. of Board (15 Panel) for BKC Station (COD FY 25)
2	Chembur EHV Sub-station			2		Considering Chembur - BKC connectivity as approved in BKC EHV Station DPR (COD FY 25)
3	Chandivali EHV Sub-station	7	30	7	30	220kV: 1. 7 nos. for Chandivali S/s as per latest STU 10 year plan for FY 25 - FY 34 (part A1 - EHV Stations) (COD FY 26) 33kV: 1. 2 no. of Board (15 panel each) at Chandivali S/s, based on DPR. (As per Commission's approval 1 Board is approved) (COD FY 26)

Sr. No.	Name of SS	As per Licence (Fourth Amendment dated 30.05.2023)		Revised		Remarks
		220kV (a)	33kV (b)	220kV (a)	33kV (b)	
4	Kandivali EHV Sub-station	8	30	7	30	220kV : 1. 07 nos. of bays at Kandivali, as per latest STU 10 year plan for FY 25 - FY 34 (part A1 - EHV Stations) (COD FY 27) 33kV : 1. 2 No. of boards (14 panel) (COD FY 27) 2. Addition of 2 no. of Bays for Reactors - new Requirement (Part of Kandivali DPR submitted to Commission on 31.01.2024) (COD FY 27)
5	Aarey EHV Sub-station	3		2		220kV : 1. 2 no. 220 kV Bays for Aarey - BKC DPR connectivity, as per latest STU 10 year plan for FY 25 - FY 34 (Part B - Link lines) (COD : FY 29) 2. 1 no. of Bay shifted to Existing due to Aarey 220kV AIS to GIS Scheme completion.

Sr. No.	Name of SS	As per Licence (Fourth Amendment dated 30.05.2023)		Revised		Remarks
		220kV (a)	33kV (b)	220kV (a)	33kV (b)	
6	Dahisar EHV Sub-station	10	30	7	30	<p>220kV:</p> <p>1. 07 nos. of bays at Dahisar (Ghodbunder Connectivity), STU 10 year plan for FY 25 - FY 34 (Part A1 - EHV SubStation) (COD FY 27).</p> <p>33kV :</p> <p>1. 2 No. of boards (15 panel) at Dahisar EHV Station (COD FY 27)</p>
7	Chembur EHV Sub-station	1		1		<p>No Change</p> <p>220kV:</p> <p>1. 1 no. of for Chembur Reactor, as per latest STU 10 year plan for FY 25 - FY 34 (part D - Reactor Installations) (COD FY 26)</p>
8	BKC EHV Sub-station			2		<p>1. 2 no. 220 kV Bays for Aarey - BKC DPR connectivity, as per latest STU 10 year plan for FY 25 - FY 34 (Part B - Link lines) (COD : FY 29)</p>
9	Switching Station - Boisar - Ghodbunder	7		7		<p>No Change</p> <p>220kV:</p> <p>1. 07. nos. of 220kV Bays as STU 10 year plan for FY 25 - FY 34 (part A1 - EHV Stations) (COD FY 27)</p>

Sr. No.	Name of SS	As per Licence (Fourth Amendment dated 30.05.2023)		Revised		Remarks
		220kV (a)	33kV (b)	220kV (a)	33kV (b)	
10	Chandivali EHV Sub-station			1		<p>220kV:</p> <p>1. As per 9th MTC dated 13.03.2024, S/C AEML Aarey to AEML Chandivali and another S/C from AEML Aarey to TPC Saki has been recommended. As per joint meeting on 09.05.2024 with STU and TPC, TPC Saki end GIS bay is in TPC scope. Hence, only 1 bay is considered at Chandivali.–</p> <p>2. Scheme is part of latest STU 10 year plan for FY 25 - FY 34 (part B - Link lines) (COD FY 28)</p>
11	Uttan EHV Sub-station			8	45	<p>New proposed scheme included.</p> <p>220kV:</p> <p>1. 7 nos. of bays at Uttan, as per STU 10 year plan for FY 25 - FY 34 (Part A1 - EHV Stations) (COD FY 27)</p> <p>2. 1 no. bay at Uttan due to addition of 3rd Transformer, as per STU 10 year plan for FY 25 - FY 34 (Part C – Transformer addition) (COD FY 29)</p> <p>33kV:</p>

Sr. No.	Name of SS	As per Licence (Fourth Amendment dated 30.05.2023)		Revised		Remarks
		220kV (a)	33kV (b)	220kV (a)	33kV (b)	
						1. 2 no. of Board (15 Panel each) for Uttan (COD FY 27) 2. 1 no. of Board (15 Panel) for 3 rd Transformer (COD FY 29)
12	Khardanda EHV Sub-station			7	30	New proposed Scheme included. 220kV: 1. 7 nos. of bays at Khardanda, as per latest STU 10 year plan for FY 25 - FY 34 (Part A1 - EHV Stations) (COD FY 28) 33kV: 1. 2 no. of Board (15 Panel each) for Khardanda (COD FY 28)
13	Aarey EHV Sub-station			2		220kV : 1. 2 nos. Bay due to Aarey Chandivali 2nd Feed , as per latest STU 10 year plan for FY 25 - FY 34 (Part B - Link lines) (COD : FY 28)

Sr. No.	Name of SS	As per Licence (Fourth Amendment dated 30.05.2023)		Revised		Remarks
		220kV (a)	33kV (b)	220kV (a)	33kV (b)	
14	250 MW BESS Sub-station at Dahanu			10	48	New proposed scheme included. 220kV: 1. 10 nos. of 220kV as per latest STU 10 year plan for FY 25 - FY 34 (Part E - Additional schemes) - No. of bays as per proposed DPR submitted to STU dated 11.08.2023. (COD FY 28) 33kV: 1. 3 nos. board (16 panel each) for BESS Scheme. (COD FY 28)
15	Airport EHV Sub-station	9	28	9	28	No Change. 220kV: 1. 07 Bays at Airport (LILLO of Aarey BKC), as per latest STU 10 year plan for FY 25 - FY 34 (Part A : EHV Substations). (COD : FY29) 2. 02 Bays for TPC Sahar connectivity, as per latest STU 10 year plan for FY 25 - FY 34 (Part B - Link lines) (COD : FY 29) 33kV: 1. 02 boards (14 Panel each) (COD FY 29)

Sr. No.	Name of SS	As per Licence (Fourth Amendment dated 30.05.2023)		Revised		Remarks
		220kV (a)	33kV (b)	220kV (a)	33kV (b)	
16	Borivali EHV Sub-station	2	2	2	2	No Change. 220kV: 1. 2 no. of 220 kV Bays for Dahisar - Borivali (2nd feed), as per latest STU 10 year plan for FY 25 - FY 34 (Part B - Link lines).(COD : FY28) 33kV: 1. 2 no. 33 kV Bays to be added as part of Reactor DPR. as per latest STU 10 year plan for FY 25 - FY 34 (Part D : Reactor Installation). (COD : FY28)
17	Ghodbunder EHV Sub-station	2	4	0	4	220 kV : 1. 2 no. of 220 kV Bays for proposed Dahisar Sstn (as per latest STU 10 year plan for FY 25 - FY 34) connectivity from Ghodbunder S/stn (part A2 - Associated lines) 2. 2no. of 220 kV Bays decreased due to AIS to GIS scheme at Ghodbunder EHV Sub-station (as per latest STU 10 year plan for FY 25 - FY 34- part E - Additional schemes) 3. Net addition to 220 kV

Sr. No.	Name of SS	As per Licence (Fourth Amendment dated 30.05.2023)		Revised		Remarks
		220kV (a)	33kV (b)	220kV (a)	33kV (b)	
						Bays = 0 33kV : 1. 4 no. of 33 kV Bays for proposed reactor installation at Ghodbunder S/stn (as per latest STU 10 year plan for FY 25 - FY 34-part D - Reactor installation) (COD FY 28)
18	Versova EHV Sub-station		5	1	5	220kV: 1. 1 no. of 220 kV Bays increase due to AIS to GIS scheme at Versova EHV Sub-station (as per latest STU 10 year plan for FY 25 - FY 34-part E - Additional schemes) 33kV: 1. 5 nos. of 33kV Bays due to 33kV Reactor Scheme (as per latest STU 10 year plan for FY 25 - FY 34 - part D - Reactor installation) (COD FY 28)

Sr. No.	Name of SS	As per Licence (Fourth Amendment dated 30.05.2023)		Revised		Remarks
		220kV (a)	33kV (b)	220kV (a)	33kV (b)	
19	Malad EHV Sub-station	8	30	8	45	220kV: 1. 7 nos of Bays at Malad as per latest STU 5 year plan for FY 23 - FY 27 dated 16.11.2023 (part A1 - EHV Stations) (COD FY 29). 2. 1 nos of bay at Malad for 3rd Transformer - as per latest STU 10 year plan for FY 25 - FY 34 (part C : Transformer Addition) (COD FY 31) 33kV: 1. 2 no. of Board (15 Panel each) at Malad (COD FY 2). 2. Addition of 1 no. of Board (15 Panel each) due to 3rd Transformer (COD FY 31)
20	Gorai EHV Sub-station		1		1	No Change. 33kV: 1 no. of 33 kV Bays for proposed reactor installation at Gorai S/stn (as per latest STU 10 year plan for FY 25 - FY 34 - part D - Reactor installation) (COD FY 28)

Sr. No.	Name of SS	As per Licence (Fourth Amendment dated 30.05.2023)		Revised		Remarks
		220kV (a)	33kV (b)	220kV (a)	33kV (b)	
21	Tilak Nagar / Siddharth Nagar EHV Sub-station			8	45	<p>New proposed scheme included.</p> <p>220kV:</p> <p>1. 7 nos. of bays at Tilak Nagar, as per latest STU 10 year plan for FY 25 - FY 34 (Part A1 - EHV Stations) (COD FY 28)</p> <p>2. 1 no. bay at Tilak Nagar due to addition of 3rd Transformer, as per STU 10 year plan for FY 25 - FY 34 (Part C – Transformer addition) (COD FY 30)</p> <p>33kV:</p> <p>1. 2 no. of Board (15 Panel each) for Tilak Nagar (COD FY 28)</p> <p>2. 1 no. of Board (15 Panel) due to 3rd Transformer addition (COD FY 30)</p>
22	BKC EHV Sub-station			1	15	<p>220kV:</p> <p>1. Increase in 220 kV (1 no.) due to 3rd 125 MVA Transformer (as per latest STU 10 year plan for FY 25 - FY 34 (part C - Transformer additions) (COD FY 27)</p> <p>33kV:</p> <p>2. 1 no. of Board (15 Panel)</p>

Sr. No.	Name of SS	As per Licence (Fourth Amendment dated 30.05.2023)		Revised		Remarks
		220kV (a)	33kV (b)	220kV (a)	33kV (b)	
						for 3rd transformer (COD FY 27)
23	BKC EHV Sub-Station				2	33kV: 1. 2 nos. of 33kV Bays due to 33kV Reactor Scheme (as per latest STU 10 year plan for FY 25 - FY 34 (Part D - Reactor installation) (COD FY 28)
24	Kandivali EHV Sub-station			1	15	220kV : 1. 1 no. Bay for 3rd transformer (as per latest STU 10 year plan for FY 25 - FY 34 - part C - Transformer addition) (COD FY 29) 33kV : 1. 1 no. of Board (15 Panel) due to 3rd Transformer (COD FY 29)
25	Kharganda EHV Sub-station			1	15	New proposed Scheme included. 220kV: 1. Additional Bays (1 no for 220 kV Bay) due to addition of 3rd 125 MVA Transformer (as per latest STU 10 year plan for FY 25 -

Sr. No.	Name of SS	As per Licence (Fourth Amendment dated 30.05.2023)		Revised		Remarks
		220kV (a)	33kV (b)	220kV (a)	33kV (b)	
						FY 34- part C - Transformer additions) (COD FY 30) 33kV: 1. 1 no. of bard (15 panel each) of 3rd Transformer. (COD FY 30)
26	Dahisar EHV Sub-station			3	15	220kV: 1. 220 kV Bay (1 no.) due to 3rd 125 MVA Transformer (as per latest STU 10 year plan for FY 25 - FY 34- part C - Transformer additions) (COD FY 29) 2. Addition of 2 nos. Bays for Borivali connectivity. as per latest STU 10 year plan for FY 25 - FY 34. (Part C - Link lines) (COD FY 28) 33kV : 1. 1 No. of board (15 panel) for 3rd transformer (COD FY 29)
27	Chandivali EHV Sub-Station			1	15	220kV 1. Addition of 1 no. of Bays for 3rd Transformer Chandivali. Scheme is part of STU 10 Year Plan for the period FY25-FY34

Sr. No.	Name of SS	As per Licence (Fourth Amendment dated 30.05.2023)		Revised		Remarks
		220kV (a)	33kV (b)	220kV (a)	33kV (b)	
						(Part C -Transformer Addition) (COD : FY28) 33kV 2. 3rd Transformer Chandivali 1 no. Board (15 Panel) added. Scheme is part of STU 10 Year Plan for the period FY25-FY34 (Part C - Transformer Addition) (COD : FY28)
28	Airport EHV Sub-station			1	15	220kV: 1. 1 nos of bay at Airport for 3rd Transformer - as per latest STU 10 year plan for FY 25 - FY 34 (part C – Transformer Addition) (COD FY 31) 33kV: 1. Addition of 1 no. of Board (14 Panel each) due to 3rd Transformer (COD FY 31)
29	Nahar EHV Sub-Station			8	45	New proposed scheme included.

Sr. No.	Name of SS	As per Licence (Fourth Amendment dated 30.05.2023)		Revised		Remarks
		220kV (a)	33kV (b)	220kV (a)	33kV (b)	
						220kV: 1. 7 nos. of bays at Nahar, as per latest STU 10 year plan for FY 25 - FY 34 (Part A1 - EHV Stations) (COD FY 28) 2. 1 no. of Bay at Nahar, for 3 rd Transformer. (COD FY 30) 33kV: 1. 2 no. of Board (15 Panel each) for Nahar EHV S/s. (COD FY 28) 2. 1 no. of Board (15 Panel) for Nahar EHV S/s. (COD FY 30)
30	Kashi EHV Sub-Station			8	45	New proposed scheme included. 220kV: 1. 7 nos. of bays at Kashi per latest STU 10 year plan for FY 25 - FY 34 (Part A1 - EHV Stations) (COD FY 30) 2. 1 no. of Bay at Kashi, for 3 rd Transformer (COD FY 32). 33kV: 1. 2 no. of Board (15 Panel

Sr. No.	Name of SS	As per Licence (Fourth Amendment dated 30.05.2023)		Revised		Remarks
		220kV (a)	33kV (b)	220kV (a)	33kV (b)	
						each) for Kashi EHV S/s. (COD FY 30) 2. 1 no. of Board (15 Panel) for Kashi EHV S/s. (COD FY 32)
31	Tagore Nagar EHV Sub-Station			8	45	New proposed scheme included. 220kV: 1. 7 nos. of bays at Tagore Nagar, as per latest STU 10 year plan for FY 25 - FY 34 (Part A1 - EHV Stations) (COD FY 30) 2. 1 no. of Bay at Tagore Nagar, for 3 rd Transformer(COD FY 32) . 33kV: 1. 2 no. of Board (15 Panel each) for Tagore Nagar EHV S/s. (COD FY 30) 2. 1 no. of Board (15 Panel) for Tagore Nagar EHV S/s. (COD FY 32)

Sr. No.	Name of SS	As per Licence (Fourth Amendment dated 30.05.2023)		Revised		Remarks
		220kV (a)	33kV (b)	220kV (a)	33kV (b)	
32	220kV Vazira Naka (Don Bosco) EHV S/s			7	30	<p>New proposed scheme included.</p> <p>220kV:</p> <p>1. 7 nos. of bays at Vazira Naka, as per latest STU 10 year plan for FY 25 - FY 34 (Part A1 - EHV Stations) (COD FY 30)</p> <p>33kV:</p> <p>1. 2 no. of Board (15 Panel each) for Vazira Naka EHV S/s. (COD FY 30)S</p>

Recreated amendment to para “3. Area of Transmission” of the License No. 01 of 2011

3. Area of Transmission

The License authorizes the Transmission Licensee to establish and operate the following transmission lines inclusive of related infrastructure:

Existing Transmission lines

SN	Particulars
1	220 kV Dahanu - Ghodbunder Transmission Line 1 (84.58 km) from Dahanu EHV substation to Ghodbunder EHV sub-station
2	220 kV Dahanu - Ghodbunder Transmission Line 2 (84.58 km) from Dahanu EHV substation to Ghodbunder EHV sub-station
3	220 kV Dahanu - MSETCL Viraj Transmission Line (26.42 km) from Dahanu EHV substation to MSETCL Viraj EHV sub-station
4	220 kV MSETCL Viraj - MSETCL Boisar Transmission Line (4.24 km) from MSETCL Viraj EHV sub-station to MSETCL Boisar EHV sub station
5	220 kV MSETCL Boisar - Versova Transmission Line (91.03 km) from MSETCL Boisar EHV sub-station to Versova EHV sub station
6	220 kV Dahanu - Versova Transmission Line (105.92 km) from Dahanu EHV sub-station to Versova EHV sub station
7	220 kV Ghodbunder - Gorai Transmission Line (9.76 km) from Ghodbunder EHV substation to Gorai EHV sub station
8	220 kV Gorai - Versova Transmission Line (12.15 km) from Gorai EHV sub-station to Versova EHV sub station
9	220 kV Ghodbunder - Versova Transmission Line 2 (20.69 km) from Ghodbunder EHV sub-station to Versova EHV sub station
10	220 kV Versova - Goregaon Transmission Line 1 (4.26 km) from Versova EHV substation to Goregaon EHV sub station
11	220 kV Goregaon - Aarey Transmission Line 1 (5.19 km)) from Goregaon EHV substation to Aarey EHV sub station
12	220 kV Versova - Goregaon Transmission Line 2 (4.24 km) from Versova EHV substation to Goregaon EHV sub station
13	220 kV Goregaon - Aarey Transmission Line 2 (5.20 km) from Goregaon EHV substation to Aarey EHV sub station
14	220 kV Aarey - Saki Transmission Line 1 (4.00 km)) from Aarey EHV sub-station to Saki EHV sub station
15	220 kV Aarey - Saki Transmission Line 2 (4.00 km) from Aarey EHV sub-station to Saki EHV sub station

SN	Particulars
16	220 kV Aarey - TPC Borivali Transmission Line (12.21 km) from Aarey EHV substation to TPC Borivali EHV sub station
17	220 kV Aarey - AEML Borivali Transmission Line (12.60 km) from Aarey EHV substation to AEML Borivali EHV sub station
18	220 kV AEML Borivali - TPC Borivali Transmission Line (0.10 km) from AEML Borivali EHV sub-station to TPC Borivali EHV sub station
19	220 kV MSETCL Borivali - Gorai Transmission Line 1 (9.10 km) from MSETCL Borivali EHV sub-station to Gorai EHV sub station
20	220 kV MSETCL Borivali - Gorai Transmission Line 2 (9.10 km) from MSETCL Borivali EHV sub-station to Gorai EHV sub station
21	220 kV MSETCL Borivali - AEML Borivali Transmission Line 1 (2.70 km) from MSETCL Borivali EHV sub-station to AEML Borivali EHV sub station
22	220 kV MSETCL Borivali - AEML Borivali Transmission Line 2 (2.70 km) from MSETCL Borivali EHV sub-station to AEML Borivali EHV sub station
23	220 kV Chembur - MSETCL Trombay Transmission Line 1 (8.13 km) from Chembur EHV sub-station to MSETCL Trombay EHV sub station
24	220 kV Chembur - MSETCL Trombay Transmission Line 2 (8.13 km) from Chembur EHV sub-station to MSETCL Trombay EHV sub station
25	220 kV MSETCL Boisar (Tower No. 257) - Ghodbunder Transmission Line (4.29 km) from MSETCL Boisar EHV sub-station to Ghodbunder EHV sub station
26	220 kV Ghodbunder - MSETCL Borivali (Tower No. 257) Transmission Line (4.29 km) from Ghodbunder EHV sub-station to MSETCL Boisar EHV sub station
27	220 kV AEML Saki - TPC Saki Transmission Line 1 (1.25 km) from AEML Saki EHV sub-station to TPC Saki EHV sub station
28	220 kV AEML Saki - TPC Saki Transmission Line 2 (1.22 km) from AEML Saki EHV sub-station to TPC Saki EHV sub station
29	220 kV Aarey to MSETCL Borivali line 1 (12.70 km) from Aarey EHV sub-station to MSETCL Borivali EHV sub-station
30	220 kV Aarey to MSETCL Borivali line 2 (12.70 km) from Aarey EHV sub-station to MSETCL Borivali EHV sub-station
31	220 kV MSETCL Nerul-AEML Chembur Transmission Line (LILO at telecom factory) (2.78 km) from MSETCL Nerul EHV sub-station to AEML Chembur EHV sub-station
32	220 kV AEML Chembur-MSETCL Trombay Transmission Line (LILO at telecom factory) (2.78 km) from AEML Chembur EHV sub-station to MSETCL Trombay EHV sub-station

Existing Bays at Substation

220 kV Substation			
Sr. No.	Name of SS	220kV (a)	33kV (b)
1	Aarey EHV Sub-station	18	82
2	Borivali EHV Sub-station	10	33
3	Chembur EHV Sub-station	10	42
4	Ghodbunder EHV Sub-station	19	59
5	Gorai EHV Sub-station	10	26
6	Goregaon EHV Sub-station	10	42
7	MSETCL Borivali EHV Sub-station	9	0
8	MSETCL Trombay EHV Sub-station	5	0
9	Saki EHV Sub-station	10	42
10	Versova EHV Sub-station	17	66

Proposed Transmission lines

SN	Particulars
1	220kV Chembur to BKC transmission line 1 (12 km) from Chembur EHV sub-station to BKC EHV sub-station
2	220kV Chembur to BKC transmission line 2 (12 km) from Chembur EHV sub-station to BKC EHV sub-station
3	220 kV LILO of KVPTL Vikhroli – TPC Saki Line (220kV Chandivali EHV Scheme) Ckt 1 (0.35 km)
4	220 kV LILO of KVPTL Vikhroli – TPC Saki Line (220kV Chandivali EHV Scheme) Ckt 2 (0.35 km)
5	220 kV Ghodbunder-Dahisar transmission line 1 (6.50 km) from Ghodbunder EHV sub-station to Dahisar EHV sub-station
6	220 kV Ghodbunder-Dahisar transmission line 2 (6.50 km) from Ghodbunder EHV sub-station to Dahisar EHV sub-station
7	220kV Aarey to BKC transmission line 1 (17.50 km) from Aarey EHV sub-station to BKC EHV sub-station
8	220kV Aarey to BKC transmission line 2 (17.50 km) from Aarey EHV sub-station to BKC EHV sub-station
9	220kV LILO of DTPS/Boisar - Versova at Kandivali (W) EHV Station transmission line 1 (Boisar-Kandivali Connectivity) (4.20 km) from Boisar EHV sub-station to Kandivali EHV sub-station
10	220kV LILO of DTPS/Boisar - Versova at Kandivali (W) EHV Station transmission line 2 (Boisar-Kandivali Connectivity) (4.20 km) from Boisar EHV sub-station to Kandivali EHV sub-station
11	220 kV LILO of AEML Dahanu - Versova line (4 km) at Uttan Ckt1
12	220 kV LILO of AEML Dahanu - Versova line (4 km) at Uttan Ckt2
13	220kV LILO of Aarey - BKC line at Khardanda by Underground Cable (Ckt 1) (3.50 km)
14	220kV LILO of Aarey - BKC line at Khardanda by Underground Cable (Ckt 2) (3.50 km)

SN	Particulars
15	220 kV AEML Aarey to proposed 220kV Chandivali EHV Scheme Ckt 1 (3.00 km)
16	220 kV AEML Aarey to 220kV TPC Saki EHV S/s Ckt 2 (3.60 km)
17	LILO of Aarey-BKC Ckt 1 at Airport EHV Station (2.00 km) from Aarey EHV sub-station to BKC Ckt 1 at Airport EHV sub-station
18	LILO of Aarey-BKC Ckt 1 at Airport EHV Station (2.00 km) from Aarey EHV sub-station to BKC Ckt 2 at Airport EHV sub-station
19	220kV Dahisar - Borivali transmission line 1 (6 km) from Dahisar EHV sub-station to Borivali EHV sub-station
20	220kV Dahisar - Borivali transmission line 2 (6 km) from Dahisar EHV sub-station to Borivali EHV sub-station
21	LILO of 220kV AEML Aarey-TPC Borivali OH line at Malad by laying 220kV D/C Underground Cable (Ckt 1) (1.00 km)
22	LILO of 220kV AEML Aarey-TPC Borivali OH line at Malad by laying 220kV D/C Underground Cable (Ckt 2) (1.00 km)
23	220kV TPC-T Sahar-AEML-T Airport transmission line 1 (1.50 km) from TPC-T Sahar EHV sub-station to AEML-T Airport EHV sub-station
24	220kV TPC-T Sahar-AEML-T Airport transmission line 2 (1.50 km) from TPC-T Sahar EHV sub-station to AEML-T Airport EHV sub-station
25	220kV LILO of TPC Trombay –Salsette Line at Tilak Nagar / Sidhartha Nagar EHV S/s (Ckt 1) (2 Kms)
26	220kV LILO of TPC Trombay –Salsette Line at Tilak Nagar / Sidhartha Nagar EHV S/s (Ckt 2) (2 Kms)
27	LILO of 220kV Aarey - Chandivali line at Nahar EHV S/s (Ckt 1) (4.5 Kms)
28	LILO of 220kV Aarey - Chandivali line at Nahar EHV S/s (Ckt 2) (4.5 Kms)
29	220kV Ghodbunder – Boisar / Borivali LILO at Kashi Village EHV S/s (Ckt 1) (0.5 Kms)
30	220kV Ghodbunder - Boisar / Borivali LILO at Kashi Village EHV S/s (Ckt 2) (0.5 Kms)
31	220kV TPC Trombay – TPC Salsette LILO at Tagore Nagar S/s (Ckt 1) (0.5 Kms)
32	220kV TPC Trombay – TPC Salsette LILO at Tagore Nagar S/s (Ckt 2) (0.5 Kms)
33	LILO of MSETCL Borivali- Gorai at Vazira Naka (Don Bosco) EHV S/s (Ckt 1) (0.5 Kms)
34	LILO of MSETCL Borivali- Gorai at Vazira Naka (Don Bosco) EHV S/s (Ckt 2) (0.5 Kms)

Proposed List of EHV Substation Bays

220 kV Sub-station			
Sr	Name of SS	220kV (b)	33kV (c)
1	Aarey EHV Sub-station	4	
2	Airport EHV Sub-station	10	43
3	Borivali EHV Sub-station	2	2
4	BKC EHV Sub-station	10	47
5	Dahisar EHV Sub-station	10	45
6	Ghodbunder EHV Sub-station		4
7	Kandivali EHV Sub-station	8	45

220 kV Sub-station			
Sr	Name of SS	220kV (b)	33kV (c)
8	Switching Station - Boisar - Ghodbunder	7	
9	Versova EHV Sub-station	1	5
10	Chembur EHV Sub-station	3	
11	Chandivali EHV Sub-station	9	45
12	Malad EHV Sub-station	8	45
13	Gorai EHV Sub-station		1
14	Khardanda EHV Sub-station	8	45
15	Uttan EHV Sub-station	8	45
16	Tilak Nagar / Siddharth Nagar EHV Sub-station	8	45
17	250 MW BESS Sub-station at Dahanu	10	48
18	Nahar EHV Sub-Station	8	45
19	Kashi EHV Sub-Station	8	45
20	Tagore Nagar EHV Sub-Station	8	45
21	Vazira Naka (Don Bosco) EHV S/s	7	30

NOTE: 1.

The Transmission Licensee shall execute Connection Agreements with the other Licensees regarding the interconnection points of the above lines / sub-station bays, defining and documenting therein the exact details of the boundaries and interface points.