

Abstract: Projects Commissioned during FY 2023-24

| Sr No | Category | Number of Substations | MVA Capacity | | | Number of lines | CKM | Reactors | |
|-------------------|----------|---|-----------------|---|-------------|-----------------|---------------|---|------------|
| | | | New Substations | Augmentation of capacity by Addition+ Replacement | Total | | | Number | MVAR |
| 1 | MSETCL | 6 (220kV Waghivli GIS, 220 kV Ulwe GIS, Khed city, Pandharkawda upgradation, Tirthpuri, Bibwewadi) | 550 | 1350 | 1900 | 21 | 721.04 | 2 (Akola SS-125, Nanded-125+ from Capacitor Banks) | 250 |
| 2 | ORC | 8 (132 kV Chudwa TSS, Kumbephal TSS, Himayatnagar TSS, Vadgaon Nila TSS, Jalna TSS, Igatpuri TSS, Muktban TSS, Salgare TSS) | -- | -- | -- | 15 | 165.38 | -- | -- |
| FY-2023-24 | | 14 | 550 | 1350 | 1900 | 36 | 886.42 | 2 | 250 |

March-2024**Substation work****MSETCL****New Substations**

| S.n. | Substation & Scope | MBR | MVA/ MVAR | Date (COD) | Districts | Circle/Zone | Remark |
|------|--|------------------------------|--------------|------------|-----------|--|--|
| 1 | 220/33kV GIS Ulwe Node substation 2 x 50MVA, 220/33kV T/Fs | BR 126/25 dt 23.02.2018 | 100 | 12-07-2023 | Raigad | Kalwa Washi | |
| 2 | 220kV Waghivali GIS switching substation Only bays | BR 98/20 dt 16/04/2015 | 0 | 01-09-2023 | Thane | Kalwa Washi | Only bays. |
| 3 | 132/33kV Tirthpuri substation 2 x 25MVA, 132/33kV T/Fs | BR 145/11 dt 22.01.2021 | 50 | 08-01-2024 | Jalna | Chhatrapati Sambhajinagar Chhatrapati Sambhajinagar | |
| 4 | 220/33kV Khed City substation 2x50 MVA, 220/33kV T/Fs. | BR 128/22 dt. 21.04.2018. | 100 | 22-02-2024 | Pune | Pune Pune | |
| 5 | Up-gradation of existing 132 kV Pandharkawda substation to 220 kV level 2x 100MVA, 220/132kV ICTs | 120/06, dtd. 14-09-2017 | 200 | 27-03-2024 | Yavatmal | Amravati Amravati | 220/132kV ICTs test charged from 132kV on 18.02.2022, now commissioned on 220kV level. |
| 6 | 132/22kV Bibwewadi substation 2 x50MVA 132/22kV T/Fs | BR 136/24 dt 29.07.2019 | 100 | 29-03-2024 | Pune | Pune Pune | |

*Subtotal MVA / MVAR : 550***Transformer Augumentations (Projects)**

| S.n. | Substation & Scope | MBR | MVA/ MVAR | Date (COD) | Districts | Circle/Zone | Remark |
|------|--|-----------------------------|--------------|------------|-----------|----------------|--|
| 1 | Creation of 110 kV Level at 220 kV Peth S/s. 1x 100MVA, 220/110kV ICT | BR 117/16 dt. 19-06-2017 | 100 | 30-03-2024 | Satara | Karad Karad | ICT work was completed on 31.03.2022, now charged along with 110kV line. |

Subtotal MVA / MVAR : 100

| Transformer Augumentations (O&M) | | | | | | | |
|----------------------------------|--|----------------------------------|--------------|------------|----------------------------|--|--------|
| S.n. | Substation & Scope | MBR | MVA/ MVAR | Date (COD) | Districts | Circle/Zone | Remark |
| 1 | 132Kv Gondia substation 1 x 50 MVA, 132/33kV T/F | Dir/ 458 27.03.2023 | 50 | 01-05-2023 | Gondia | Nagpur Nagpur | |
| 2 | 220kV Kolshet substation 1 x 50 MVA, 100/22kV T/F | BR 131/52 dt. 02.11.2018 | 50 | 19-05-2023 | Thane | Kalwa Washi | |
| 3 | 132kV Satara (Deolai) substation 1x50MVA, 132/33kV T/F | BR 142/18 10.09.2020 | 50 | 23-06-2023 | Chhatrapati Sambhajina gar | Chhatrapati Sambhajina gar Chhatrapati Sambhajina gar | |
| 4 | 132kV Washim substation 1 x25 MVA, 132/33kV T/F | CMD/MSETCL/542 dt. 05.07.2021 | 25 | 18-09-2023 | Washim | Amravati Amravati | |
| 5 | 132kV Harsool substation 1x50MVA, 132/33kV T/F | BR 142/18 dt 10.09.2020 | 50 | 23-11-2023 | Chhatrapati Sambhajina gar | Chhatrapati Sambhajina gar Chhatrapati Sambhajina gar | |
| 6 | 132kV Risod substation 1x25 MVA, 132/33kV T/F | CMD/MSETCL/542 dt.05.07.2021 | 25 | 23-11-2023 | Washim | Akola Amravati | |
| 7 | 400kV Waluj 1x50MVA, 220/33kV T/F | CMD/870 dt.04.01.2021 | 50 | 30-11-2023 | Chhatrapati Sambhajina gar | Chhatrapati Sambhajina gar Chhatrapati Sambhajina gar | |
| 8 | 400kV Bahleshwar substation 3X167MVA, 400/220/33kV ICT | BR 138/07 dt. 18.09.2019 | 500 | 28-02-2024 | Ahmednagar | Nashik Nashik | |
| 9 | 132/33kV Umarkhed substation 1x 25 MVA, 132/33kV T/F | Dir(OP)-1030 dt. 02/05/2022 | 25 | 29-02-2024 | Yawatmal | Amravati Amravati | |
| 10 | 400kV Kharghar substation 1 X 50MVA, 220/33kV T/F | BR 131/52 dt. 02.11.2018 | 50 | 15-03-2024 | Raigad | Panvel Washi | |

| Transformer Augumentations (O&M) | | | | | | | |
|----------------------------------|---|--------------------------------|----|------------|----------|-------------------|--|
| 11 | 132kV Sanaswadi substation 1x50 MVA, 132/22kV T/F | BR 142/15 dt. 10.09.2020 | 50 | 22-03-2024 | Pune | Pune Pune | |
| 12 | 110kV Neral substation 1x25 MVA, 110/22kV T/F | 142/16 dt.10.09.2020 | 25 | 24-03-2024 | Raigad | Panvel Washi | |
| 13 | 132kV Morgaon Arjuni substation 1x25 MVA, 132/33kV T/F | 149/06 Dt. 02.09.2021 | 25 | 26-03-2024 | Bhandara | Nagpur Nagpur | |
| 14 | 132kV Motala substation 1x25 MVA, 132/33kV T/F | Dir(OPS)/2270 dt.24.11.2021 | 25 | 28-03-2024 | Akola | Akola Amravati | |
| 15 | 220kV Nanded City substation 1x50MVA, 220/22kV T/F | BR 130/07 dt.27.08.2018 | 50 | 29-03-2024 | Pune | Pune Pune | |

Subtotal MVA / MVAR : 1050

| Transformer Replacements | | | | | | | |
|--------------------------|--|--------------------------------|--------------|------------|-----------|-----------------|--------|
| S.n. | Substation & Scope | MBR | MVA/ MVAR | Date (COD) | Districts | Circle/Zone | Remark |
| 1 | 132 kV Indapur Substation 1 X (50-25) MVA,132/33 kV TF | 108/18 02.06.16 | 25 | 03-10-2023 | Solapur | Pune Pune | |
| 2 | 132kV Yawat substation 1x(50-25), 132/33kV T/F | Dir(OP)/2685 Dt: 29.12.2015 | 25 | 28-11-2023 | Solapur | Pune Pune | |
| 3 | 220kV Boisar-II substation 1 X (200-150) MVA, 220/132kV ICT | BR.139/18 dt.12.12.2019 | 50 | 09-02-2024 | Palghar | Kalwa Washi | |
| 4 | 220kV Pandharpur substation 1 X (200-100) MVA 220/132kV ICT | 139/17 dt. 12.12.2019 | 100 | 20-03-2024 | Solapur | Solapur Pune | |

Subtotal MVA / MVAR : 200

| Bus Reactor | | | | | | | |
|-------------|--|-----------------------------|--------------|------------|-----------|----------------------|--------|
| S.n. | Substation & Scope | MBR | MVA/ MVAR | Date (COD) | Districts | Circle/Zone | Remark |
| 1 | 400 KV, 125 MVA bus shunt reactor at 400 KV Akola S/s 400 KV, 125 MVA bus shunt reactor | BR 112/21 dt. 17.11.2016 | 125 | 27-04-2023 | Akola | Amravati Amravati | |

| Bus Reactor | | | | | | | |
|----------------------------------|---|---------------------------|-----------|------------|---------------------------|--------------------------------------|--------------------------|
| 2 | 400 KV, 125 MVAR bus shunt reactor at 400 KV Nanded (Kumbhargaon) S/s 400 KV, 125 MVAR bus shunt reactor | BR 112/ 21 dt. 17.11.2016 | 125 | 12-05-2023 | Nanded | Aurangabad Chhatrapati Sambhajinagar | |
| <i>Subtotal MVA / MVAR : 250</i> | | | | | | | |
| ORC | | | | | | | |
| New Substations | | | | | | | |
| S.n. | Substation & Scope | MBR | MVA/ MVAR | Date (COD) | Districts | Circle/Zone | Remark |
| 1 | 132kV Chudawa TSS Only bays | CMD-2018 Dt.03.06.2019 | 0 | 15-06-2023 | Nanded | CSN Chhatrapati Sambhajinagar | |
| 2 | 132kV Kumbhephal TSS Only bays | CMD-2018 Dt.03.06.2019 | 0 | 20-06-2023 | Chhatrapati Sambhajinagar | CSN Chhatrapati Sambhajinagar | |
| 3 | 132kV Himayatnagar TSS 132kV Bay | Dir(proj)/34 dt. 01.02.21 | 0 | 10-08-2023 | Nanded | CSN Chhatrapati Sambhajinagar | 15% supervision charges. |
| 4 | 132kV Vadgaon Nila TSS 132kV Bays-2 nos | CMD-378 Dt.24.07.2020. | 0 | 10-08-2023 | Parbhani | CSN Chhatrapati Sambhajinagar | 15% supervision charges. |
| 5 | 132Kv Jalna TSS 1x 132kV bays | CMD-2018 Dt.03.06.2019 | 0 | 24-08-2023 | Jalna | CSN Chhatrapati Sambhajinagar | |
| 6 | 132kV Igatpuri TSS 2 x 132kV Bays | CMD-156 dt. 12.02.2018 | 0 | 23-09-2023 | Nashik | Nashik Nashik | |
| 7 | 132kV Mukutban TSS Only bays | CMD-248 dt. 19.03.2021. | 0 | 03-03-2024 | Yawatmal | Amravati Amravati | 15% supervision charges. |
| 8 | 110kV Salgare TSS 2x132 kV bays | CMD-1894 Dt. 09.05.2019 | 0 | 13-03-2024 | Sangali | Kolhapur Karad | |
| <i>Subtotal MVA / MVAR : 0</i> | | | | | | | |
| Total MVA : 1900 | | | | | | | |
| Total MVAR : 250 | | | | | | | |

EHV Lines

MSETCL

| S.n. | Line Name | MBR | Ckm | Date (COD) | Type | Circle/Zone | Remark |
|------|--|---------------------------|-------|------------|-----------|--|--|
| 1 | 220kV Wani-Pandharkawada D/C line (Pkg-1) | BR 120/06 dt. 14-09-2017 | 65 | 30-05-2023 | D/C D/C | Amravati Amravati | Test charged on no load from 220/33kV Wani substation end. |
| 2 | 132KV Single circuit Parvati- Kothrud underground cable. | BR 117/14 dt. 19-06-2017 | 3.525 | 31-05-2023 | U/G cable | Pune Pune | |
| 3 | Reorientation work 2nd circuit of 132kV Sindewahi-Brahmpuri SCDC line. | CMD-1138 dtd. 29.09.2016. | 0.131 | 05-06-2023 | S/C D/C | Nagpur Nagpur | |
| 4 | 220KV LILO on Uran-Kharghar line at Ulwe Node SS through EHV cable. | BR 126/25 dt 23.02.2018 | 0 | 10-07-2023 | LILO | Kalwa Washi | Conversion of O/H to U/G work is executed under ORC project for NMIA, Cable is taken In and Out for uran-Kharghar ckt-I, hence no line length added. |
| 5 | 132KV Kharda-Ashti DC line (GEC-I) | BR 98/08, dtd. 16-03-2015 | 91.2 | 07-09-2023 | D/C | CSN Chhatrapati Sambhajina gar | |
| 6 | 220kV Deoli -Ghatodi upto Yawatmal LILO point. | BR 33/07 dt. 11-09-2008 | 98.8 | 07-10-2023 | D/C | Amravati Amravati | Deoli - Yawatmal Ckt-I & II commissioned from 765/400/220kV Deoli (PG) substation end. |
| 7 | 220KV DC Kalmeshwar-Warud (Phase I & II) | BR 34/04 dt. 04-10-2008 | 52.8 | 31-10-2023 | D/C D/C | Amravati Amravati | Partial line from Kalmeshwar substation to loc no 90 is charged on no load. |
| 8 | 132kV Rahuri-Ahmednagar MIDC line (upto ISMT LILO point)(GEC line) | BR 98/08 dt 16.03.2015 | 51.4 | 23-11-2023 | D/C | Nashik Nashik | Partial line commissioned. |
| 9 | Second circuit stringing of 132kV Kinwat-Himayatnagar line. | BR | 50.4 | 23-12-2023 | S/C | Chhatrapati Sambhajina gar Chhatrapati Sambhajina gar | |

| S.n. | Line Name | MBR | Ckm | Date (COD) | Type | Circle/Zone | Remark |
|------|---|--|--------|------------|---------|--|---|
| 10 | LILO on 132 kV Bhoom-Paranda at 132kV Ida substation(Tap line). | BR/C-01 2022-23 dtd 14.04.2022 | 0.736 | 29-12-2023 | LILO | CSN Chhatrapati Sambhajinagar | One circuit from 132kV Bhoom ss to Ida s/s charged. |
| 11 | 220 kV DC line from 400 kV Jejuri Substation to location no. 28 of existing 220 kV Jejuri-Lonand ckt. | BR 115/22 dtd. 20.04.2017 | 14.4 | 30-12-2023 | LILO | Pune Pune | |
| 12 | LILO on 132kV Ambad-Ghansawangi line at 132kV Tirthpuri substation. | BR 145/11 dt. 22.01.2021 | 14.306 | 08-01-2024 | LILO | Chhatrapati Sambhajinagar Chhatrapati Sambhajinagar | |
| 13 | 2nd source to Ahmednagar MIDC substation from 220kV Sonewadi substation Gantry to existing loc 13 of 132kV Sonewadi-Ahmednagar MIDC line. | CMD/3246 dt.04.11.2019 | 0.962 | 04-02-2024 | S/C | Nashik Nashik | |
| 14 | 220kV LILO on Kathapur- Lonikand -I line at 220kV Khed City. | BR 128/22 dt 21.04.2018 | 11.12 | 22-02-2024 | LILO | Pune Pune | |
| 15 | LILO on 132KV Narangwadi-Omerga line for 132KV Samudral substation (One circuit) | BR/C-02/2022-23 by circulation dtd. 14.04.2022 | 0.83 | 07-03-2024 | LILO | CSN Chhatrapati Sambhajinagar | Only one circuit from Narangwadi to Samudral charged. |
| 16 | 220 kV DC line from 400 kV Kumbhargaoon (Nanded) - Kurunda - Pkg A (Loc 1 to 112) | BR 115/21, dtd. 20-04-2017 | 66.6 | 20-03-2024 | D/C D/C | CSN Chhatrapati Sambhajinagar | Line partially commissioned from 400kV Kumbhargaoon substation. |
| 17 | 220KV DC Kalmeshwar-Warud (Phase IV & V) | BR 34/04 dt. 04-10-2008 | 84 | 26-03-2024 | D/C D/C | Amravati Amravati | Partial line charged from loc no 168 to 313 i.e. upto 220kV Warud SS. |
| 18 | 220kV Wani Pandharkawda DC line phase II | BR 120/06 dt. 14-09-2017 | 51 | 27-03-2024 | D/C | Amravati Amravati | |
| 19 | 220kV Umred - Nagbhid DCDC line Part-I (Umred SS to loc no 95). | BR 116/11 dt. 18-05-2017 | 52.686 | 28-03-2024 | D/C D/C | Nagpur Nagpur | Line partially test charged from 220kV Umred substation. |

| S.n. | Line Name | MBR | Ckm | Date (COD) | Type | Circle/Zone | Remark |
|------|---|-------------------------|------|------------|---------|-------------------|--------|
| 20 | LILO on 132 kV Kothrud- Phursungi line for 132kV Bibwewadi Substation | BR 136/24 dt 29.07.2019 | 1.2 | 29-03-2024 | LILO | Pune Pune | |
| 21 | 220/110kV Peth substation to 110kV Borgaon S/s | 117/16 dt. 19-06-2017 | 9.95 | 30-03-2024 | S/C D/C | Kolhapur Karad | |

Subtotal Ckm : 721.046

ORC

| S.n. | Line Name | MBR | Ckm | Date (COD) | Type | Circle/Zone | Remark |
|------|--|-------------------------------|-------|------------|-----------|--|--|
| 1 | 132kV LILO on Sterlite-Hyosung EHV cable line at M/s. Inox Air Products Pvt Ltd. | CMD/MSETCL/602 dtd 22.07.2021 | 0.8 | 26-04-2023 | U/G cable | Aurangabad Chhatrapati Sambhajina gar | |
| 2 | 132 kV SCDC line from 220 kV Narangwadi S/S to developers site, M/s. Suyog Urja Pvt. Ltd. | CMD-1095 dt. 03.11.2022 | 18.43 | 07-06-2023 | S/C D/C | Chhatrapati Sambhajina gar | |
| 3 | 132 KV SCDC line from 132 KV Purna S/s to 132 KV Chudawa TSS (Balance work Loc 54 to TSS) | CMD-2018 Dt.03.06.2019 | 0.25 | 15-06-2023 | S/C D/C | Chhatrapati Sambhajina gar Chhatrapati Sambhajina gar | |
| 4 | 132 KV S/C underground cable from 220 KV Shendra MIDC S/s to 132 KV Kumbhephal TSS. | CMD-2018 Dt.03.06.2019 | 1.2 | 20-06-2023 | U/G cable | Chhatrapati Sambhajina gar Chhatrapati Sambhajina gar | |
| 5 | 132kV Himayatnagar SS to Himayatnagar TSS SCDC line. | Dir(proj)/34 dt. 01.02.21 | 1.5 | 26-07-2023 | S/C D/C | CSN Chhatrapati Sambhajina gar | Work executed by SECR (15% supervision charges). |
| 6 | 132 kV LILO on 132 kV Gangakhed - Sonpeth line at 132 kV Vadgaon Nila TSS | CMD-378 Dt.24.07.2020. | 8.8 | 10-08-2023 | LILO | Chhatrapati Sambhajina gar Chhatrapati Sambhajina gar | |

| S.n. | Line Name | MBR | Ckm | Date (COD) | Type | Circle/Zone | Remark |
|------|--|---------------------------------|-------|------------|-----------|--|--------------------------------|
| 7 | 132 KV SCDC line from 132 KV Badnapur S/s to Jalna TSS. | CMD-2018 Dt.03.06.2019 | 26.6 | 24-08-2023 | S/C D/C | Chhatrapati Sambhajinagar Chhatrapati Sambhajinagar | |
| 8 | 132kV DC underground cable from 132kV Ganeshkhind substation to 132kV Rangehill RSS (Mahametro) circuit -I. | PS/2085 dt 23.02.2018 | 3.43 | 30-08-2023 | U/G cable | Pune Pune | |
| 9 | 132 KV Igatpuri to Igatpuri TSS DC line | CMD-156 dt. 12.02.2018 | 9.784 | 23-09-2023 | D/C | Nashik Nashik | |
| 10 | 132kV LILO on Tamsa-Umarkhed line at 132kV Subhash Sugar Co-generation plant | BR | 3.938 | 26-10-2023 | LILO | CSN Chhatrapati Sambhajinagar | |
| 11 | 132kV Kaulewada to Dhapewada LIS stage -II underground cable. | Dir(Projects)/203 dt 01.02.2020 | 0.489 | 22-11-2023 | U/G cable | Nagpur Nagpur | |
| 12 | 220kV SCDC line from 220kV Phaltan MIDC to 220kV Mol- Manjarwadi Solar Project of M/s. T.S.Wind Farm Developer. | BR. | 20 | 19-01-2024 | S/C D/C | Karad Karad | |
| 13 | 132 kV Pandharkawada S/s to 132 kV Mukutban TSS line. | CMD-248 dt. 19.03.2021. | 53 | 03-03-2024 | S/C D/C | Amravati Amravati | Under 15% supervision charges. |
| 14 | 132kV SCDC line from 220kV Jalkot to Solar Power project by Shri. Maruti Wind Park Private Ltd at Malhipparga, Tq Jalkot, Dist Nanded. | BR. | 5.139 | 11-03-2024 | S/C D/C | Chhatrapati Sambhajinagar Chhatrapati Sambhajinagar | |
| 15 | 132 KV SCDC line from 110 KV Kavathe Mahankal S/s to 110 KV Salagare TSS. | CMD-1894 Dt. 09.05.2019 | 12.02 | 13-03-2024 | S/C D/C | Kolhapur Karad | |

Subtotal Ckm : 165.38

Total Ckm : 886.426

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