

Loading of important EHV Elements during 4th Quarter (January - March) for the year 2018

| Sr. No. | Name of Transmission Element | Designed Capacity (DC) | Sustained Demand / Peak Load (SD / SP) | Already allotted capacity but not availed | New Capacity to be added | New Demand to be added | Available Open Access Capacity (DC-SD)* |
|--|--|------------------------|--|---|--------------------------|------------------------|---|
| (A) Central & South Gujarat Area | | | | | | | |
| Pooling substation - Asoj | | | | | | | |
| 1 | 400/220 KV, 3x500 MVA, 1X315 MVA ICTs at 400 KV Asoj | 1815 MVA | 1325 MVA | 0 | 0 | 0 | 490 MVA |
| 2 | 220/132 KV, 2x100 + 2x150 MVA ICTs 400 KV Asoj | 500 MVA | 410 MVA | 0 | 0 | 0 | 90 MVA |
| 3 | 220 KV D/C Asoj - Chandrapura | 360 MW | 438 MW | 0 | 0 | 0 | -78 MW |
| 4 | 132 KV D/C Asoj - Fertilizernagar line | 140 MW | 118 MW | 0 | 0 | 0 | 22 MW |
| 5 | 220 KV S/C Wanakbori - Godhra line | 180 MW | 204 MW | 0 | 0 | 0 | -24 MW |
| 6 | 220 KV D/C Asoj - Mogar line | 360 MW | 188 MW | 0 | 0 | 0 | 172 MW |
| Pooling substation - Jambuva | | | | | | | |
| 1 | 220/132 KV, 3x100 MVA ICTs at 220 KV Jambuva | 300 MVA | 143 MVA | 0 | 0 | 0 | 157 MVA |
| 2 | 220 KV S/C Asoj - Jambuva line | 180 MW | 223 MW | 0 | 0 | 0 | -43 MW |
| 3 | 220 KV S/C Jambuva - Zagadia line | 180 MW | 76 MW | 0 | 0 | 0 | 104 MW |
| 4 | 220 KV S/C Jambuva - Haldarwa line | 180 MW | 93 MW | 0 | 0 | 0 | 87 MW |
| 5 | 220 KV D/C Karamsad - Jambuva line | 360 MW | 104 MW | 0 | 0 | 0 | 256 MW |
| 6 | 132 KV S/C Jambuva - Karjan | 70 MW | 56 MW | 0 | 0 | 0 | 14 MW |
| Pooling substation - Gavasad | | | | | | | |
| 1 | 220/66 KV, 2x50+100 MVA ICTs at 220 KV Gavasad | 200 MVA | 107 MVA | 0 | 0 | 0 | 93 MVA |
| 2 | 220 KV S/C Gavasad - Kosamba | 180 MW | 121 MW | 0 | 0 | 0 | 59 MW |
| 3 | 220 KV S/C Gavasad - Suva line | 180 MW | 98 MW | 0 | 0 | 0 | 82 MW |
| 4 | 220 KV D/C Kasor - Gavasad | 360 MW | 255 MW | 0 | 0 | 0 | 105 MW |
| Pooling substation - Kasor | | | | | | | |
| 1 | 400/220KV, 3X315 MVA at 400 KV Kasor | 945 MVA | 718 MVA | 0 | 0 | 0 | 227 MVA |
| 2 | 400 KV S/C Kasor - GPEC line | 615 MW | 455 MW | 0 | 0 | 0 | 160 MW |
| 3 | 220 KV D/C Kasor - Karamsad line | 360 MW | 306 MW | 0 | 0 | 0 | 54 MW |
| 4 | 132 KV S/C Karamsad - Nadiad line | 70 MW | 103 MW | 0 | 0 | 0 | -33 MW |
| Pooling substation being fed by Ukai / Kosamba/Kawas / Jhanor | | | | | | | |
| 1 | 400/220 KV, 3x315 MVA+1X500 ICTs at 400 KV Kosamba | 1445 MVA | 829 MVA | 0 | 0 | 0 | 616 MVA |
| 2 | 220/66 KV, 2x160 MVA, 2X100 MVA, Vapi substation | 520 MVA | 261 MVA | 0 | 0 | 0 | 259 MVA |
| 3 | 220/66 KV, 1X50MVA + 5X100 MVA, Vav substation | 550 MVA | 381 MVA | 0 | 0 | 0 | 169 MVA |
| 4 | 220/66 KV, 1X50 +2X100 MVA, Ambheta (Chikhli) substation | 250 MVA | 143 MVA | 0 | 0 | 0 | 107 MVA |
| 5 | 220/66 KV, 2X100 + 1X160 MVA, Mota substation | 360 MVA | 206 MVA | 0 | 0 | 0 | 154 MVA |
| 6 | 400 KV S/C Chorania - Kasor line | 615 MW | 345 MW | 0 | 0 | 0 | 270 MW |
| 7 | 220 KV S/C Kosamba - Vav line | 180 MW | 195 MW | 0 | 0 | 0 | -15 MW |
| 8 | 220 KV S/C Kosamba - Kim line No. -1 | 180 MW | 236 MW | 0 | 0 | 0 | -56 MW |
| 9 | 220 KV S/C Kosamba - Kim line No. - 2 | 180 MW | 216 MW | 0 | 0 | 0 | -36 MW |
| 10 | 220 KV D/C Ukai TPS - Mota line | 360 MW | 428 MW | 0 | 0 | 0 | -68 MW |
| 11 | 220 KV D/C Mota - Chikhli line | 360 MW | 228 MW | 0 | 0 | 0 | 132 MW |
| 12 | 220 KV S/C Chikhli - Vapi line | 180 MW | 115 MW | 0 | 0 | 0 | 65 MW |
| 13 | 220 KV D/C Kakrapar - Vapi line | 360 MW | 192 MW | 0 | 0 | 0 | 168 MW |
| 14 | 220 KV D/C Jhanor TPS - Haldarwa line | 360 MW | 478 MW | 0 | 0 | 0 | -118 MW |
| 15 | 220 KV D/C GPEC (CLPIL) TPS - Haldarwa line | 360 MW | 429 MW | 0 | 0 | 0 | -69 MW |
| Pooling substation - Kim | | | | | | | |
| 1 | 220 KV S/C Kim - GSEG (PS) | 180 MW | 196 MW | 0 | 0 | 0 | -16 MW |
| 2 | 220 KV S/C Kim - Mora | 180 MW | 42 MW | 0 | 0 | 0 | 138 MW |

| Sr. No. | Name of Transmission Element | Designed Capacity (DC) | Sustained Demand / Peak Load (SD / SP) | Already allotted capacity but not availed | New Capacity to be added | New Demand to be added | Available Open Access Capacity (DC-SD)* |
|---|--|------------------------|--|---|--------------------------|------------------------|---|
| (B) West Gujarat Area (Saurashtra) | | | | | | | |
| Pooling substation - Chorania | | | | | | | |
| 1 | 400/220 KV, 3x500 MVA ICTs at 400 KV Chorania | 1500 MVA | 646 MVA | 0 | 0 | 0 | 854 MVA |
| 2 | 400 KV S/C Asoj - Chorania-1 | 615 MW | 284 MW | 0 | 0 | 0 | 331 MW |
| 3 | 400 KV S/C Asoj - Chorania-2 | 615 MW | 229 MW | 0 | 0 | 0 | 386 MW |
| 4 | 220 KV S/C Chorania - Viramgam | 180 MW | 91 MW | 0 | 0 | 0 | 89 MW |
| 5 | 220 KV S/C Chorania - Salejada line | 180 MW | 142 MW | 0 | 0 | 0 | 38 MW |
| Pooling substation - Hadala | | | | | | | |
| 1 | 400/220 KV, 3x315 MVA ICTs at 400 KV Hadala | 945 MVA | 669 MVA | 0 | 0 | 0 | 276 MVA |
| 2 | 400 KV S/C Hadala - Chorania line | 615 MW | 349 MW | 0 | 0 | 0 | 266 MW |
| 3 | 220 KV (three ckt) Hadala - Nyara line | 540 MW | 338 MW | 0 | 0 | 0 | 202 MW |
| 5 | 132 KV S/C Nyara - Vikram line | 70 MW | 72 MW | 0 | 0 | 0 | -2 MW |
| 6 | 132 KV S/C Nyara - Vajadi line | 70 MW | 84 MW | 0 | 0 | 0 | -14 MW |
| 7 | 220kV Hadala- Kangashiyali line | 180 MW | 189 MW | 0 | 0 | 0 | -9 MW |
| Pooling substation - Morbi | | | | | | | |
| 1 | 220/66 KV, 3 X 100 MVA ICT at 220 KV Morbi | 300 MVA | 278 MVA | 0 | 0 | 0 | 22 MVA |
| 2 | 220/66 KV, 1X160 MVA, 1 X 100 MVA ICT at 220 KV Lalpar | 260 MVA | 156 MVA | 0 | 0 | 0 | 104 MVA |
| 3 | 220 KV S/C Bhimasar - Morbi line | 180 MW | 125 MW | 0 | 0 | 0 | 55 MW |
| 4 | 220 KV S/C Morbi - Lalpar line | 180 MW | 102 MW | 0 | 0 | 0 | 78 MW |
| Pooling substation - Jetpur | | | | | | | |
| 1 | 400/220 KV, 1x500 + 3x315 MVA ICTs at 400 KV Jetpur | 1445 MVA | 835 MVA | 0 | 0 | 0 | 610 MVA |
| 2 | 220 KV S/C Jetpur - Gondal line | 180 MW | 242 MW | 0 | 0 | 0 | -62 MW |
| 3 | 220 KV S/C Jetpur - Shapur line | 180 MW | 158 MW | 0 | 0 | 0 | 22 MW |
| 4 | 220 KV S/C Jetpur - Ranavav line | 180 MW | 120 MW | 0 | 0 | 0 | 60 MW |
| 5 | 132 KV S/C Gondal - Jasdan line | 70 MW | 86 MW | 0 | 0 | 0 | -16 MW |
| Pooling substation - Amreli | | | | | | | |
| 1 | 400/220 KV, 3X315+1X500 MVA ICTs at 400 KV Amreli | 1445 MVA | 779 MVA | 0 | 0 | 0 | 666 MVA |
| 2 | 220 KV D/C Amreli - Savarkundla line | 360 MW | 414 MW | 0 | 0 | 0 | -54 MW |
| (C) West Gujarat Area (Kutch) | | | | | | | |
| Pooling substation - Varsana | | | | | | | |
| 1 | 400/220 KV, 3 X 315 MVA 400 KV Varsana | 945 MVA | 561 MVA | 0 | 0 | 0 | 384 MVA |
| 2 | 400 KV S/C Varsana - Hadala line | 615 MW | 446 MW | 0 | 0 | 0 | 169 MW |
| Pooling substation - Tappar | | | | | | | |
| 1 | 220/66 KV, 2 X 100 MVA at 220 KV Tappar | 200 MVA | 133 MVA | 0 | 0 | 0 | 67 MVA |
| 2 | 220 KV D/C Tappar - Shivilakha line | 360 MW | 395 MW | 0 | 0 | 0 | -35 MW |
| Pooling substation - Shivilakha | | | | | | | |
| 1 | 220/66 KV, 3 X 100 MVA at 220 KV Shivilakha | 300 MVA | 91 MVA | 0 | 0 | 0 | 209 MVA |
| 2 | 220 KV S/C Shivilakha - Sankhari line | 180 MW | 127 MW | 0 | 0 | 0 | 53 MW |
| 3 | 220 KV S/C Shivilakha - Nani Hamirpur (PS) line | 180 MW | 125 MW | 0 | 0 | 0 | 55 MW |
| (D) North Gujarat Area | | | | | | | |
| Pooling substation : Vadavi | | | | | | | |
| 1 | 400/220 KV, 4 X 315 MVA at 400 KV Vadavi | 1260 MVA | 507 MVA | 0 | 0 | 0 | 753 MVA |
| 2 | 220 KV S/C Vadavi - Chhatral line | 180 MW | 207 MW | 0 | 0 | 0 | -27 MW |
| 3 | 220 KV D/C Charanka - Jangral line | 180 MW | 251 MW | 0 | 0 | 0 | 109 MW |

Note - For all (-) negative values, the transmission element/ segment is under constraints, the available capacity is zero

* - Available Open Access capacity is purely on theoretical calculations. However, operational reliability margin and contingency shall be considered, as per Grid Code, while granting Open Access.