

**Loading of important EHV Elements during April-June for the year 2020**

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>(A) Central &amp; South Gujarat Area</b>							
<b>Pooling substation - Asoj</b>							
1	400/220 KV, 3x500 MVA, 1X315 MVA ICTs at 400 KV Asoj	1815 MVA	750 MVA	0	0	0	1065 MVA
2	220/132 KV, 1x100 + 4x150 MVA ICTs 400 KV Asoj	700 MVA	284 MVA	0	0	0	416 MVA
3	220 KV D/C Asoj - Chandrapura	360 MW	323 MW	0	0	0	37 MW
4	132 KV D/C Asoj - Fertilizernagar line	140 MW	112 MW	0	0	0	28 MW
5	220 KV S/C Wanakbori - Godhra line	350 MW	178 MW	0	0	0	172 MW
6	220 KV D/C Asoj - Mogar line	360 MW	72 MW	0	0	0	288 MW
<b>Pooling substation - Jambuva</b>							
1	220/132 KV, 3x100 MVA ICTs at 220 KV Jambuva	300 MVA	87 MVA	0	0	0	213 MVA
2	220 KV D/C Asoj - Jambuva line	360 MW	244 MW	0	0	0	116 MW
3	220 KV S/C Jambuva - Zagadia line	180 MW	94 MW	0	0	0	86 MW
4	220 KV S/C Jambuva - Haldarwa line	180 MW	149 MW	0	0	0	31 MW
5	220 KV D/C Karamsad - Jambuva line	360 MW	142 MW	0	0	0	218 MW
6	132 KV S/C Jambuva - Karjan	70 MW	44 MW	0	0	0	26 MW
<b>Pooling substation - Gavasad</b>							
1	220/66 KV, 2x50 + 100 MVA ICTs at 220 KV Gavasad	200 MVA	90 MVA	0	0	0	110 MVA
2	220 KV S/C Gavasad - Kosamba	180 MW	49 MW	0	0	0	131 MW
3	220 KV S/C Gavasad - Suva line	180 MW	87 MW	0	0	0	93 MW
4	220 KV D/C Kasor - Gavasad	360 MW	169 MW	0	0	0	191 MW
<b>Pooling substation - Kasor</b>							
1	400/220KV, 3X315 MVA at 400 KV Kasor	945 MVA	451 MVA	0	0	0	494 MVA
2	400 KV S/C Kasor - GPEC line	615 MW	360 MW	0	0	0	255 MW
3	220 KV D/C Kasor - Karamsad line	360 MW	430 MW	0	0	0	-70 MW
<b>Pooling substation being fed by Ukai / Kosamba/Kawas / Jhanor</b>							
1	400/220 KV, 3x315 MVA + 1X500 ICTs at 400 KV Kosamba	1445 MVA	395 MVA	0	0	0	1050 MVA
2	220/66 KV, 2x160 MVA, 2X100 MVA, Vapi substation	520 MVA	238 MVA	0	0	0	282 MVA
3	220/66 KV, 1X50MVA + 5X100 MVA, Vav substation	550 MVA	230 MVA	0	0	0	320 MVA
4	220/66 KV, 1X50 + 2X100 MVA, Ambheta (Chikhli) substation	250 MVA	160 MVA	0	0	0	90 MVA
5	220/66 KV, 2X100 + 1X160 MVA, Mota substation	360 MVA	185 MVA	0	0	0	175 MVA
6	400 KV S/C Chorania - Kasor line	615 MW	389 MW	0	0	0	226 MW
7	220 KV S/C Kosamba - Vav line	180 MW	103 MW	0	0	0	77 MW
8	220 KV S/C Kosamba - Kim line No. -1	180 MW	156 MW	0	0	0	24 MW
9	220 KV S/C Kosamba - Kim line No. - 2	180 MW	138 MW	0	0	0	42 MW
10	220 KV D/C Ukai TPS - Mota line	360 MW	159 MW	0	0	0	201 MW
11	220 KV D/C Mota - Chikhli line	360 MW	288 MW	0	0	0	72 MW
12	220 KV S/C Chikhli - Vapi line	180 MW	133 MW	0	0	0	47 MW
13	220 KV D/C Kakrapar - Vapi line	360 MW	295 MW	0	0	0	65 MW
14	220 KV D/C Jhanor TPS - Haldarwa line	360 MW	340 MW	0	0	0	20 MW
15	220 KV D/C GPEC (CLPIL) TPS - Haldarwa line	360 MW	172 MW	0	0	0	188 MW
<b>Pooling substation - Kim</b>							
1	220 KV D/C Kim - Suzen (PS)	360 MW	266 MW	0	0	0	94 MW
2	220 KV S/C Kim - GSEG (PS)	180 MW	152 MW	0	0	0	28 MW
3	220 KV S/C Kim - Mora	180 MW	114 MW	0	0	0	66 MW

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<b>(B) West Gujarat Area (Saurashtra)</b>							
<b>Pooling substation - Chorania</b>							
1	400/220 KV, 3x500 MVA ICTs at 400 KV Chorania	1500 MVA	508 MVA	0	0	0	992 MVA
2	400 KV S/C Asoj - Chorania-1	615 MW	287 MW	0	0	0	328 MW
3	400 KV S/C Asoj - Chorania-2	615 MW	265 MW	0	0	0	350 MW
4	220 KV S/C Chorania - Viramgam	180 MW	82 MW	0	0	0	98 MW
5	220 KV S/C Chorania - Bagodara line	180 MW	200 MW	0	0	0	-20 MW
<b>Pooling substation - Hadala</b>							
1	400/220 KV, 3x315 MVA + 1X500 MVA ICTs at 400 KV Hadala	1445 MVA	968 MVA	0	0	0	477 MVA
2	400 KV S/C Hadala - Chorania line	615 MW	505 MW	0	0	0	110 MW
3	220 KV (three ckt) Hadala - Nyara line	540 MW	347 MW	0	0	0	193 MW
4	132 KV S/C Nyara - Vikram line	70 MW	59 MW	0	0	0	11 MW
5	132 KV S/C Nyara - Vajadi line	70 MW	76 MW	0	0	0	-6 MW
6	220 KV S/C Hadala- Kangashiyali line	180 MW	208 MW	0	0	0	-28 MW
<b>Pooling substation - Morbi</b>							
1	220/66 KV, 2X100 MVA + 2X160 MVA ICT at 220 KV Morbi	520 MVA	253 MVA	0	0	0	267 MVA
2	220/66 KV, 2X160 MVA ICT at 220 KV Lalpar	320 MVA	59 MVA	0	0	0	261 MVA
3	220 KV S/C Bhimasar - Morbi line	180 MW	101 MW	0	0	0	79 MW
4	220 KV S/C Morbi - Lalpar line	180 MW	173 MW	0	0	0	7 MW
<b>Pooling substation - Jetpur</b>							
1	400/220 KV, 1x500 + 3x315 MVA ICTs at 400 KV Jetpur	1445 MVA	612 MVA	0	0	0	833 MVA
2	220 KV S/C Jetpur - Gondal line	180 MW	224 MW	0	0	0	-44 MW
3	220 KV S/C Jetpur - Shapur line	180 MW	150 MW	0	0	0	30 MW
4	220 KV S/C Jetpur - Ranavav line	180 MW	171 MW	0	0	0	9 MW
5	132 KV S/C Gondal - Jasdan line	70 MW	106 MW	0	0	0	-36 MW
<b>Pooling substation - Amreli</b>							
1	400/220 KV, 3X315 + 1X500 MVA ICTs at 400 KV Amreli	1445 MVA	461 MVA	0	0	0	984 MVA
2	220 KV D/C Amreli - Savarkundla line	360 MW	336 MW	0	0	0	24 MW
<b>(C) West Gujarat Area (Kutch)</b>							
<b>Pooling substation - Varsana</b>							
1	400/220 KV, 4X315 MVA at 400 KV Varsana	1260 MVA	633 MVA	0	0	0	627 MVA
2	400 KV S/C Varsana - Hadala line	615 MW	403 MW	0	0	0	212 MW
<b>Pooling substation - Tappar</b>							
1	220/66 KV, 2X100 + 1X160 MVA at 220 KV Tappar	360 MVA	173 MVA	0	0	0	187 MVA
2	220 KV D/C Tappar - Shivilakha line	360 MW	271 MW	0	0	0	89 MW
<b>Pooling substation - Shivilakha</b>							
1	220/66 KV, 4X100 MVA at 220 KV Shivilakha	400 MVA	166 MVA	0	0	0	234 MVA
2	220 KV S/C Shivilakha - Sankhari line	180 MW	179 MW	0	0	0	1 MW
3	220 KV S/C Shivilakha - Nani Hamirpur (PS) line	180 MW	153 MW	0	0	0	27 MW
<b>(D) North Gujarat Area</b>							
<b>Pooling substation : Vadavi</b>							
1	400/220 KV, 4X315 MVA at 400 KV Vadavi	1260 MVA	636 MVA	0	0	0	624 MVA
2	220 KV D/C Vadavi - Chhatral line	360 MW	320 MW	0	0	0	40 MW
3	220 KV D/C Charanka - Jangral line	600 MW	283 MW	0	0	0	317 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.