

Loading of important EHV Elements during July - September for the year 2022

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	1279 MVA	0	0	0	536 MVA
2	220/132 KV, 1x100 + 4x150 MVA ICTs 400 KV Asoj	700 MVA	428 MVA	0	0	0	272 MVA
3	220 KV D/C Asoj - Chandrapura	360 MW	338 MW	0	0	0	22 MW
4	132 KV D/C Asoj - Fertilizernagar line	140 MW	95 MW	0	0	0	45 MW
5	220 KV S/C Wanakbori - Godhra line	350 MW	223 MW	0	0	0	127 MW
6	220 KV D/C Asoj - Mogar line	360 MW	220 MW	0	0	0	140 MW
Pooling substation - Jambuva							
1	220/132 KV, 3x100 MVA ICTs at 220 KV Jambuva	300 MVA	104 MVA	0	0	0	196 MVA
2	220 KV D/C Asoj - Jambuva line	360 MW	427 MW	0	0	0	-67 MW
3	220 KV S/C Jambuva - Zagadia line	180 MW	209 MW	0	0	0	-29 MW
4	220 KV S/C Jambuva - Haldarwa line	180 MW	177 MW	0	0	0	3 MW
5	220 KV D/C Karamsad - Jambuva line	360 MW	128 MW	0	0	0	232 MW
6	132 KV S/C Jambuva - Karjan	70 MW	91 MW	0	0	0	-21 MW
Pooling substation - Gavasad							
1	220/66 KV, 2x100 + 1X50 MVA ICTs at 220 KV Gavasad	250 MVA	103 MVA	0	0	0	147 MVA
2	220 KV S/C Gavasad - Kosamba	180 MW	111 MW	0	0	0	69 MW
3	220 KV S/C Gavasad - Suva line	180 MW	168 MW	0	0	0	12 MW
4	220 KV D/C Kasor - Gavasad	360 MW	447 MW	0	0	0	-87 MW
Pooling substation - Kasor							
1	400/220KV, 3X315 MVA at 400 KV Kasor	945 MVA	820 MVA	0	0	0	125 MVA
2	400 KV S/C Kasor - GPEC line	615 MW	731 MW	0	0	0	-116 MW
3	220 KV D/C Kasor - Karamsad line	360 MW	322 MW	0	0	0	38 MW
Pooling substation being fed by Ukai / Kosamba/Kawas / Jhanor							
1	400/220 KV, 3x315 MVA + 1X500 ICTs at 400 KV Kosamba	1445 MVA	717 MVA	0	0	0	728 MVA
2	220/66 KV, 2x160 MVA, 2X100 MVA, Vapi substation	520 MVA	319 MVA	0	0	0	201 MVA
3	220/66 KV, 1X160 MVA + 5X100 MVA, Vav substation	660 MVA	530 MVA	0	0	0	130 MVA
4	220/66 KV, 1X160 + 2X100 MVA, Ambheta (Chikhli) substation	360 MVA	121 MVA	0	0	0	239 MVA
5	220/66 KV, 2X160 + 1X100 MVA, Mota substation	420 MVA	208 MVA	0	0	0	212 MVA
6	400 KV S/C Chorania - Kasor line	615 MW	658 MW	0	0	0	-43 MW
7	220 KV S/C Kosamba - Vav line	180 MW	143 MW	0	0	0	37 MW
8	220 KV S/C Kosamba - Kim line No. -1	180 MW	190 MW	0	0	0	-10 MW
9	220 KV S/C Kosamba - Kim line No. - 2	180 MW	197 MW	0	0	0	-17 MW
10	220 KV D/C Ukai TPS - Mota line	360 MW	475 MW	0	0	0	-115 MW
11	220 KV D/C Mota - Chikhli line	360 MW	220 MW	0	0	0	140 MW
12	220 KV S/C Chikhli - Vapi line	180 MW	121 MW	0	0	0	59 MW
13	220 KV D/C Kakrapar - Vapi line	360 MW	268 MW	0	0	0	92 MW
14	220 KV D/C Jhanor TPS - Haldarwa line	360 MW	280 MW	0	0	0	80 MW
15	220 KV D/C GPEC (CLPIL) TPS - Haldarwa line	360 MW	401 MW	0	0	0	-41 MW
Pooling substation - Kim							
1	220 KV D/C Kim - Suzen (PS)	360 MW	205 MW	0	0	0	155 MW
2	220 KV S/C Kim - GSEG (PS)	180 MW	36 MW	0	0	0	144 MW
3	220 KV S/C Kim - Mora	180 MW	40 MW	0	0	0	140 MW

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(B) West Gujarat Area (Saurashtra)							
Pooling substation - Chorania							
1	400/220 KV, 3x500 MVA ICTs at 400 KV Chorania	1500 MVA	672 MVA	0	0	0	828 MVA
2	400 KV S/C Asoj - Chorania-1	615 MW	432 MW	0	0	0	183 MW
3	400 KV S/C Asoj - Chorania-2	615 MW	385 MW	0	0	0	230 MW
4	220 KV S/C Chorania - Viramgam	180 MW	103 MW	0	0	0	77 MW
5	220 KV S/C Chorania - Bagodara line	180 MW	249 MW	0	0	0	-69 MW
Pooling substation - Hadala							
1	400/220 KV, 3x315 MVA + 1X500 MVA ICTs at 400 KV Hadala	1445 MVA	939 MVA	0	0	0	506 MVA
2	400 KV S/C Hadala - Chorania line	615 MW	469 MW	0	0	0	146 MW
3	220 KV (three ckt) Hadala - Nyara line	540 MW	495 MW	0	0	0	45 MW
4	132 KV S/C Nyara - Vikram line	70 MW	75 MW	0	0	0	-5 MW
5	132 KV S/C Nyara - Vajadi line	70 MW	98 MW	0	0	0	-28 MW
6	220 KV S/C Hadala- Kangashiyali line	180 MW	211 MW	0	0	0	-31 MW
Pooling substation - Morbi							
1	220/66 KV, 2X100 MVA + 2X160 MVA ICT at 220 KV Morbi	520 MVA	322 MVA	0	0	0	198 MVA
2	220/66 KV, 2X160 MVA ICT at 220 KV Lalpar	320 MVA	204 MVA	0	0	0	116 MVA
3	220 KV S/C Bhimasar - Morbi line	180 MW	148 MW	0	0	0	32 MW
4	220 KV S/C Morbi - Lalpar line	180 MW	120 MW	0	0	0	60 MW
Pooling substation - Jetpur							
1	400/220 KV, 2x500 + 2x315 MVA ICTs at 400 KV Jetpur	1630 MVA	907 MVA	0	0	0	723 MVA
2	220 KV S/C Jetpur - Gondal line	180 MW	181 MW	0	0	0	-1 MW
3	220 KV S/C Jetpur - Shapur line	180 MW	217 MW	0	0	0	-37 MW
4	220 KV S/C Jetpur - Ranavav line	180 MW	181 MW	0	0	0	-1 MW
5	132 KV S/C Gondal - Jasdan line	70 MW	74 MW	0	0	0	-4 MW
Pooling substation - Amreli							
1	400/220 KV, 3X315 + 1X500 MVA ICTs at 400 KV Amreli	1445 MVA	830 MVA	0	0	0	615 MVA
2	220 KV D/C Amreli - Savarkundla line	360 MW	400 MW	0	0	0	-40 MW
(C) West Gujarat Area (Kutch)							
Pooling substation - Varsana							
1	400/220 KV, 4X315 MVA at 400 KV Varsana	1260 MVA	624 MVA	0	0	0	636 MVA
2	400 KV S/C Varsana - Hadala line	615 MW	602 MW	0	0	0	13 MW
Pooling substation - Tappar							
1	220/66 KV, 2X100 + 1X160 MVA at 220 KV Tappar	360 MVA	193 MVA	0	0	0	167 MVA
2	220 KV D/C Tappar - Shivilakha line	360 MW	286 MW	0	0	0	74 MW
Pooling substation - Shivilakha							
1	220/66 KV, 4X100 MVA at 220 KV Shivilakha	400 MVA	124 MVA	0	0	0	276 MVA
2	220 KV S/C Shivilakha - Sankhari line	180 MW	126 MW	0	0	0	54 MW
3	220 KV S/C Shivilakha - Nani Hamirpur (PS) line	180 MW	83 MW	0	0	0	97 MW
(D) North Gujarat Area							
Pooling substation : Vadavi							
1	400/220 KV, 4X315 MVA at 400 KV Vadavi	1260 MVA	648 MVA	0	0	0	612 MVA
2	220 KV S/C Vadavi - Chhatral line & 220 kV S/C Vadavi - Santej - Chhatral line	360 MW	266 MW	0	0	0	94 MW
3	220 KV D/C Charanka - Jangral line	600 MW	270 MW	0	0	0	330 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.