

Loading of important EHV Elements during January - March 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	1186 MVA	0	0	0	629 MVA
2	220/132 KV, 1x100 + 4x150 MVA ICTs 400 KV Asoj	700 MVA	423 MVA	0	0	0	277 MVA
3	220 KV D/C Asoj - Chandrapura	360 MW	341 MW	0	0	0	19 MW
4	132 KV D/C Asoj - Fertilizernagar line	140 MW	97 MW	0	0	0	43 MW
5	220 KV S/C Wanakbori - Godhra line	350 MW	283 MW	0	0	0	67 MW
6	220 KV D/C Asoj - Mogar line	360 MW	210 MW	0	0	0	150 MW
Pooling substation - Jambuva							
1	220/132 KV, 3x100 MVA ICTs at 220 KV Jambuva	300 MVA	106 MVA	0	0	0	194 MVA
2	220 KV D/C Asoj - Jambuva line	360 MW	431 MW	0	0	0	-71 MW
3	220 KV S/C Jambuva - Zagadia line	180 MW	173 MW	0	0	0	7 MW
4	220 KV S/C Jambuva - Haldarwa line	180 MW	204 MW	0	0	0	-24 MW
5	220 KV D/C Karamsad - Jambuva line	360 MW	97 MW	0	0	0	263 MW
6	132 KV S/C Jambuva - Karjan	70 MW	83 MW	0	0	0	-13 MW
Pooling substation - Gavasad							
1	220/66 KV, 2x100 + 1X50 MVA ICTs at 220 KV Gavasad	250 MVA	107 MVA	0	0	0	143 MVA
2	220 KV S/C Gavasad - Kosamba	180 MW	86 MW	0	0	0	94 MW
3	220 KV S/C Gavasad - Suva line	180 MW	184 MW	0	0	0	-4 MW
4	220 KV D/C Kasor - Gavasad	360 MW	323 MW	0	0	0	37 MW
Pooling substation - Kasor							
1	400/220KV, 3X315 MVA at 400 KV Kasor	945 MVA	716 MVA	0	0	0	229 MVA
2	400 KV S/C Kasor - GPEC line	615 MW	633 MW	0	0	0	-18 MW
3	220 KV D/C Kasor - Karamsad line	360 MW	352 MW	0	0	0	8 MW
Pooling substation being fed by Ukai / Kosamba/Kawas / Jhanor							
1	400/220 KV, 3x315 MVA + 1X500 ICTs at 400 KV Kosamba	1445 MVA	773 MVA	0	0	0	672 MVA
2	220/66 KV, 2x160 MVA, 2X100 MVA, Vapi substation	520 MVA	295 MVA	0	0	0	225 MVA
3	220/66 KV, 1X160 MVA + 5X100 MVA, Vav substation	660 MVA	472 MVA	0	0	0	188 MVA
4	220/66 KV, 1X160 + 2X100 MVA, Ambheta (Chikhli) substation	360 MVA	123 MVA	0	0	0	237 MVA
5	220/66 KV, 2X160 + 1X100 MVA, Mota substation	420 MVA	240 MVA	0	0	0	120 MVA
6	400 KV S/C Chorania - Kasor line	615 MW	625 MW	0	0	0	-10 MW
7	220 KV S/C Kosamba - Vav line	180 MW	112 MW	0	0	0	68 MW
8	220 KV S/C Kosamba - Kim line No. -1	180 MW	237 MW	0	0	0	-57 MW
9	220 KV S/C Kosamba - Kim line No. - 2	180 MW	220 MW	0	0	0	-40 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	228 MW	0	0	0	132 MW
12	220 KV S/C Chikhli - Vapi line	180 MW	85 MW	0	0	0	95 MW
13	220 KV D/C Kakrapar - Vapi line	360 MW	221 MW	0	0	0	139 MW
14	220 KV D/C Jhanor TPS - Haldarwa line	360 MW	331 MW	0	0	0	29 MW
15	220 KV D/C GPEC (CLPIL) TPS - Haldarwa line	360 MW	377 MW	0	0	0	-17 MW
Pooling substation - Kim							
1	220 KV D/C Kim - Suzen (PS)	360 MW	225 MW	0	0	0	135 MW
2	220 KV S/C Kim - GSEG (PS)	180 MW	47 MW	0	0	0	133 MW
3	220 KV S/C Kim - Mora	180 MW	70 MW	0	0	0	110 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	668 MVA	0	0	0	832 MVA
2	400 KV S/C Asoj - Chorania-1	615 MW	480 MW	0	0	0	135 MW
3	400 KV S/C Asoj - Chorania-2	615 MW	447 MW	0	0	0	168 MW
4	220 KV S/C Chorania - Viramgam	180 MW	81 MW	0	0	0	99 MW
5	220 KV S/C Chorania - Bagodara line	180 MW	171 MW	0	0	0	9 MW
Pooling substation - Hadala							
1	400/220 KV, 3x315 MVA + 1X500 MVA ICTs at 400 KV Hadala	1445 MVA	927 MVA	0	0	0	518 MVA
2	400 KV S/C Hadala - Chorania line	615 MW	393 MW	0	0	0	222 MW
3	220 KV (three ckt) Hadala - Nyara line	540 MW	456 MW	0	0	0	84 MW
4	132 KV S/C Nyara - Vikram line	70 MW	69 MW	0	0	0	1 MW
5	132 KV S/C Nyara - Vajadi line	70 MW	93 MW	0	0	0	-23 MW
6	220 KV S/C Hadala- Kangashiyali line	180 MW	197 MW	0	0	0	-17 MW
Pooling substation - Morbi							
1	220/66 KV, 2X100 MVA + 2X160 MVA ICT at 220 KV Morbi	520 MVA	346 MVA	0	0	0	174 MVA
2	220/66 KV, 2X160 MVA ICT at 220 KV Lalpar	320 MVA	237 MVA	0	0	0	83 MVA
3	220 KV S/C Bhimsar - Morbi line	180 MW	188 MW	0	0	0	-8 MW
4	220 KV S/C Morbi - Lalpar line	180 MW	171 MW	0	0	0	9 MW
Pooling substation - Jetpur							
1	400/220 KV, 2x500 + 2x315 MVA ICTs at 400 KV Jetpur	1630 MVA	809 MVA	0	0	0	821 MVA
2	220 KV S/C Jetpur - Gondal line	180 MW	158 MW	0	0	0	22 MW
3	220 KV S/C Jetpur - Shapur line	180 MW	207 MW	0	0	0	-27 MW
4	220 KV S/C Jetpur - Ranavav line	180 MW	128 MW	0	0	0	52 MW
5	132 KV S/C Gondal - Jasdani line	70 MW	88 MW	0	0	0	-18 MW
Pooling substation - Amreli							
1	400/220 KV, 3X315 + 1X500 MVA ICTs at 400 KV Amreli	1445 MVA	834 MVA	0	0	0	611 MVA
2	220 KV D/C Amreli - Savarkundla line	360 MW	396 MW	0	0	0	-36 MW
(C) West Gujarat Area (Kutch)							
Pooling substation - Varsana							
1	400/220 KV, 4X315 MVA at 400 KV Varsana	1260 MVA	726 MVA	0	0	0	534 MVA
2	400 KV S/C Varsana - Hadala line	615 MW	599 MW	0	0	0	16 MW
Pooling substation - Tappar							
1	220/66 KV, 2X100 + 1X160 MVA at 220 KV Tappar	360 MVA	217 MVA	0	0	0	143 MVA
2	220 KV D/C Tappar - Shivilakha line	360 MW	370 MW	0	0	0	-10 MW
Pooling substation - Shivilakha							
1	220/66 KV, 4X100 MVA at 220 KV Shivilakha	400 MVA	119 MVA	0	0	0	281 MVA
2	220 KV S/C Shivilakha - Sankhari line	180 MW	95 MW	0	0	0	85 MW
3	220 KV S/C Shivilakha - Nani Hamirpur (PS) line	180 MW	90 MW	0	0	0	90 MW
(D) North Gujarat Area							
Pooling substation : Vadavi							
1	400/220 KV, 4X315 MVA at 400 KV Vadavi	1260 MVA	630 MVA	0	0	0	630 MVA
2	220 KV D/C Vadavi - Chhatral line	360 MW	262 MW	0	0	0	98 MW
3	220 KV D/C Charanka - Jangral line	600 MW	350 MW	0	0	0	250 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.