

Loading of important EHV Elements during October-December 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	1211 MVA	0	0	0	604 MVA
2	220/132 KV, 1x100 + 3x150 MVA ICTs 400 KV Asoj	550 MVA	324 MVA	0	0	0	226 MVA
3	220 KV D/C Asoj - Chandrapura	360 MW	302 MW	0	0	0	58 MW
4	132 KV D/C Asoj - Fertilizernagar line	140 MW	80 MW	0	0	0	60 MW
5	220 KV S/C Wanakbori - Godhra line	350 MW	211 MW	0	0	0	139 MW
6	220 KV D/C Asoj - Mogar line	360 MW	208 MW	0	0	0	152 MW
Pooling substation - Jambuva							
1	220/132 KV, 3x100 MVA ICTs at 220 KV Jambuva	300 MVA	123 MVA	0	0	0	177 MVA
2	220 KV D/C Asoj - Jambuva line	360 MW	441 MW	0	0	0	-81 MW
3	220 KV S/C Jambuva - Zagadia line	180 MW	91 MW	0	0	0	89 MW
4	220 KV S/C Jambuva - Haldarwa line	180 MW	84 MW	0	0	0	96 MW
5	220 KV D/C Karamsad - Jambuva line	360 MW	136 MW	0	0	0	224 MW
6	132 KV S/C Jambuva - Karjan	70 MW	72 MW	0	0	0	-2 MW
Pooling substation - Gavasad							
1	220/66 KV, 2x50+100 MVA ICTs at 220 KV Gavasad	200 MVA	106 MVA	0	0	0	94 MVA
2	220 KV S/C Gavasad - Kosamba	180 MW	60 MW	0	0	0	120 MW
3	220 KV S/C Gavasad - Suva line	180 MW	127 MW	0	0	0	53 MW
4	220 KV D/C Kasor - Gavasad	360 MW	275 MW	0	0	0	85 MW
Pooling substation - Kasor							
1	400/220KV, 3X315 MVA at 400 KV Kasor	945 MVA	677 MVA	0	0	0	268 MVA
2	400 KV S/C Kasor - GPEC line	615 MW	440 MW	0	0	0	175 MW
3	220 KV D/C Kasor - Karamsad line	360 MW	312 MW	0	0	0	48 MW
4	132 KV S/C Karamsad - Nadiad line	70 MW	109 MW	0	0	0	-39 MW
Pooling substation being fed by Ukai / Kosamba/Kawas / Jhanor							
1	400/220 KV, 3x315 MVA+1X500 ICTs at 400 KV Kosamba	1445 MVA	788 MVA	0	0	0	657 MVA
2	220/66 KV, 2x160 MVA, 2X100 MVA, Vapi substation	520 MVA	255 MVA	0	0	0	265 MVA
3	220/66 KV, 1X50MVA + 5X100 MVA, Vav substation	550 MVA	426 MVA	0	0	0	124 MVA
4	220/66 KV, 1X50 +2X100 MVA, Ambheta (Chikhli) substation	250 MVA	129 MVA	0	0	0	121 MVA
5	220/66 KV, 2X100 + 1X160 MVA, Mota substation	360 MVA	216 MVA	0	0	0	144 MVA
6	400 KV S/C Chorania - Kasor line	615 MW	465 MW	0	0	0	150 MW
7	220 KV S/C Kosamba - Vav line	180 MW	203 MW	0	0	0	-23 MW
8	220 KV S/C Kosamba - Kim line No. -1	180 MW	231 MW	0	0	0	-51 MW
9	220 KV S/C Kosamba - Kim line No. - 2	180 MW	224 MW	0	0	0	-44 MW
10	220 KV D/C Ukai TPS - Mota line	360 MW	433 MW	0	0	0	-73 MW
11	220 KV D/C Mota - Chikhli line	360 MW	295 MW	0	0	0	65 MW
12	220 KV S/C Chikhli - Vapi line	180 MW	161 MW	0	0	0	19 MW
13	220 KV D/C Kakrapar - Vapi line	360 MW	278 MW	0	0	0	82 MW
14	220 KV D/C Jhanor TPS - Haldarwa line	360 MW	451 MW	0	0	0	-91 MW
15	220 KV D/C GPEC (CLPIL) TPS - Haldarwa line	360 MW	416 MW	0	0	0	-56 MW
Pooling substation - Kim							
1	220 KV D/C Kim - Suzen (PS)	360 MW	0 MW	0	0	0	360 MW
2	220 KV S/C Kim - GSEG (PS)	180 MW	107 MW	0	0	0	73 MW
3	220 KV S/C Kim - Mora	180 MW	99 MW	0	0	0	81 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	849 MVA	0	0	0	651 MVA
2	400 KV S/C Asoj - Chorania-1	615 MW	305 MW	0	0	0	310 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	92 MW	0	0	0	88 MW
5	220 KV S/C Chorania - Salejada line	180 MW	156 MW	0	0	0	24 MW
Pooling substation - Hadala							
1	400/220 KV, 4x315 MVA ICTs at 400 KV Hadala	1260 MVA	923 MVA	0	0	0	337 MVA
2	400 KV S/C Hadala - Chorania line	615 MW	429 MW	0	0	0	186 MW
3	220 KV (three ckt) Hadala - Nyara line	540 MW	580 MW	0	0	0	-40 MW
4	132 KV S/C Nyara - Vikram line	70 MW	87 MW	0	0	0	-17 MW
5	132 KV S/C Nyara - Vajadi line	70 MW	93 MW	0	0	0	-23 MW
6	220kV Hadala- Kangashiyali line	180 MW	218 MW	0	0	0	-38 MW
Pooling substation - Morbi							
1	220/66 KV, 3 X 100 MVA ICT at 220 KV Morbi	300 MVA	287 MVA	0	0	0	13 MVA
2	220/66 KV, 1X160 MVA, 1 X 100 MVA ICT at 220 KV Lalpar	260 MVA	165 MVA	0	0	0	95 MVA
3	220 KV S/C Bhimasar - Morbi line	180 MW	147 MW	0	0	0	33 MW
4	220 KV S/C Morbi - Lalpar line	180 MW	122 MW	0	0	0	58 MW
Pooling substation - Jetpur							
1	400/220 KV, 1x500 + 3x315 MVA ICTs at 400 KV Jetpur	1445 MVA	998 MVA	0	0	0	447 MVA
2	220 KV S/C Jetpur - Gondal line	180 MW	234 MW	0	0	0	-54 MW
3	220 KV S/C Jetpur - Shapur line	180 MW	230 MW	0	0	0	-50 MW
4	220 KV S/C Jetpur - Ranavav line	180 MW	104 MW	0	0	0	76 MW
5	132 KV S/C Gondal - Jasdand line	70 MW	108 MW	0	0	0	-38 MW
Pooling substation - Amreli							
1	400/220 KV, 3X315+1X500 MVA ICTs at 400 KV Amreli	1445 MVA	863 MVA	0	0	0	582 MVA
2	220 KV D/C Amreli - Savarkundla line	360 MW	442 MW	0	0	0	-82 MW
(C) West Gujarat Area (Kutch)							
Pooling substation - Varsana							
1	400/220 KV, 4 X 315 MVA 400 KV Varsana	1260 MVA	820 MVA	0	0	0	440 MVA
2	400 KV S/C Varsana - Hadala line	615 MW	593 MW	0	0	0	22 MW
Pooling substation - Tappar							
1	220/66 KV, 2 X 100 MVA at 220 KV Tappar	200 MVA	172 MVA	0	0	0	28 MVA
2	220 KV D/C Tappar - Shivilakha line	360 MW	346 MW	0	0	0	14 MW
Pooling substation - Shivilakha							
1	220/66 KV, 3 X 100 MVA at 220 KV Shivilakha	300 MVA	202 MVA	0	0	0	98 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	179 MW	0	0	0	1 MW
(D) North Gujarat Area							
Pooling substation : Vadavi							
1	400/220 KV, 4 X 315 MVA at 400 KV Vadavi	1260 MVA	551 MVA	0	0	0	709 MVA
2	220 KV S/C Vadavi - Chhatral line	180 MW	245 MW	0	0	0	-65 MW
3	220 KV D/C Charanka - Jangral line	360 MW	374 MW	0	0	0	-14 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.