

  
**Uttar Gujarat Vij Company Ltd.**  
 YEAR 2015-16 (APRIL-15 TO MARCH-16)

**SoP 011 - A : System Average Interruption Frequency Index (SAIFI) for AG. Dominant Category**

Sr. No	Month	Ni - Number of Customers for each sustained interruptions (in numbers)	N <sub>T</sub> - Total No of customers served (in Numbers)	CI=Σ Ni	SAIFI = $\frac{\sum Ni}{Nt}$ (Monthly SAIFI)
1	2	3	4	5	6=5/4
1	Apr-15	325777	414880	1634288	3.94
2	May-15	308408	416151	1187638	2.85
3	Jun-15	349222	417514	1991885	4.77
4	Jul-15	377092	408995	2708409	6.62
5	Aug-15	365571	408269	2369918	5.80
6	Sep-15	358521	410800	1734429	4.22
7	Oct-15	316542	409432	1277648	3.12
8	Nov-15	280411	411717	962029	2.34
9	Dec-15	300012	412255	1102615	2.67
10	Jan-16	377303	420025	1065117	2.54
11	Feb-16	378443	419216	858299	2.05
12	Mar-16	394948	422902	955766	2.26

**SoP 011 - B : System Average Interruption Duration Index (SAIDI) for AG. Dominant category**

Sr. No	Month	Ri = Restoration Time for each sustained interruption event (in hours)	Ni - Number of interrupted Customers for each sustained interruption event (in numbers)	Ri* Ni - Total customer interruption Duration	N <sub>T</sub> - Total No of customers served (in Numbers)	Customer Intt. Duration CMI = $\frac{\sum Ri*Ni}{Nt}$	SAIDI = $\frac{\sum Ri*Ni}{Nt}$ (Monthly SAIDI)
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Apr-15	15192:05	325777		414880	3084177:44	7:26
2	May-15	11154:06	308408		416151	2158151:09	5:11
3	Jun-15	20268:59	349222		417514	3817028:46	9:08
4	Jul-15	129174:13	377092		408995	18382479:08	44:56
5	Aug-15	60351:08	365571		408269	8955231:23	21:56
6	Sep-15	18831:07	358521		410800	3416297:24	8:18
7	Oct-15	11301:15	316542		409432	2274165:33	5:33
8	Nov-15	8162:04	280411		411717	1651637:45	4:00
9	Dec-15	12651:52	300012		412255	2757262:06	6:41
10	Jan-16	9976:42	292262		420025	2097780:22	4:59
11	Feb-16	7987:51	273944		419216	1671883:36	3:59
12	Mar-16	8475:57	283336		422902	1668536:26	3:56

**SoP 011 - C : Momentary Average Interruption Frequency Index (MAIFI) for AG. Dominant category**

Sr. No	Month	IM <sub>i</sub> = Number of Momentary interruptions for the month (in numbers)	N <sub>mi</sub> = Total no of customers for each momentary interruptions (in numbers)	Im <sub>i</sub> =N <sub>mi</sub> Number of customer Momentary interruptions (in numbers)	N <sub>T</sub> - Total no of customers served (in numbers)	Customer Intt. $\sum Im_i * N_{mi}$	MAIFI= $\frac{\sum Im_i * N_{mi}}{Nt}$
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Apr-15	10717	383167		414880	1892153	4.56
2	May-15	9410	374179		416151	1689008	4.06
3	Jun-15	11704	381695		417514	2149402	5.15
4	Jul-15	18718	384668		408995	3605970	8.82
5	Aug-15	30518	385726		408269	2871999	7.03
6	Sep-15	11774	388753		410800	2212776	5.39
7	Oct-15	9022	383693		409432	1831138	4.47
8	Nov-15	8687	380561		411717	1655668	4.02
9	Dec-15	8023	380448		412255	1616722	3.92
10	Jan-16	7477	377303		420025	1485910	3.54
11	Feb-16	7185	378443		419216	1447000	3.45
12	Mar-16	8740	394948		422902	1745553	4.13

YEAR 2015-16 (APRIL-15 TO MARCH-16)

**SoP 011 - A : System Average Interruption Frequency Index (SAIFI) for JGY category**

Sr. No	Month	N <sub>i</sub> - Number of Customers for each sustained interruptions (in numbers)	N <sub>T</sub> - Total No of customers served (in Numbers)	CI=Σ Ni	SAIFI = Σ Ni/Nt (Monthly SAIFI)
1	2	3	4	5	6=5/4
1	Apr-15	1490940	1775680	5266233	2.97
2	May-15	1368865	1783440	3922127	2.20
3	Jun-15	1578848	1816471	7910221	4.35
4	Jul-15	1682991	1842509	12774773	6.93
5	Aug-15	1425833	1843846	7288658	3.95
6	Sep-15	1538561	1822766	5807015	3.19
7	Oct-15	1404679	1826399	3858783	2.11
8	Nov-15	1196858	1830724	2874121	1.57
9	Dec-15	1307535	1832686	3604162	1.97
10	Jan-16	1771919	1847340	3699489	2.00
11	Feb-16	1752906	1815010	3117230	1.72
12	Mar-16	1745266	1840325	3358142	1.82

**SoP 011 - B : System Average Interruption Duration Index (SAIDI) for JGY category**

Sr. No	Month	R <sub>i</sub> = Restoration Time for each sustained interruption event (in hours)	N <sub>i</sub> - Number of interrupted Customers for each sustained interruption event (in numbers)	R <sub>i</sub> * N <sub>i</sub> - Total customer interruption Duration	N <sub>T</sub> - Total No of customers served (in Numbers)	Customer Intt. Duration CMI = ΣR <sub>i</sub> *N <sub>i</sub>	SAIDI = ΣR <sub>i</sub> *N <sub>i</sub> /Nt (Monthly SAIDI)
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Apr-15	3251:53	1490940		1775680	7498242:31	4:13
2	May-15	2642:31	1368865		1783440	6622263:25	3:42
3	Jun-15	4633:46	1578848		1816471	10868341:11	5:59
4	Jul-15	15045:27	1682991		1842509	35408220:56	19:13
5	Aug-15	4604:21	1425833		1843846	10563401:01	5:43
6	Sep-15	3366:10	1538561		1822766	7824626:41	4:17
7	Oct-15	2680:51	1404679		1826399	6717678:28	3:40
8	Nov-15	1666:52	1196858		1830724	4058530:44	2:13
9	Dec-15	3021:43	1307535		1832686	7466827:47	4:04
10	Jan-16	1976:34	1301427		1847340	4971437:27	2:41
11	Feb-16	2246:42	1231078		1815010	5260661:38	2:53
12	Mar-16	1835:08	1206330		1840325	4233019:40	2:18

**SoP 011 - C : Momentary Average Interruption Frequency Index (MAIFI) for JGY category**

Sr. No	Month	IM <sub>i</sub> = Number of Momentary interruptions for the month (in numbers)	N <sub>mi</sub> = Total no of customers for each momentary interruptions (in numbers)	IM <sub>i</sub> = N <sub>mi</sub> Number of customer Momentary interruptions (in numbers)	N <sub>i</sub> - Total no of customers served (in numbers)	Customer Intt. ΣIM <sub>i</sub> *N <sub>mi</sub>	MAIFI=ΣIm <sub>i</sub> *N <sub>mi</sub> /Nt
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Apr-15	4485	1686977		1775680	11581319	6.52
2	May-15	3610	1693532		1783440	9693054	5.44
3	Jun-15	4971	1750083		1816471	12837719	7.07
4	Jul-15	8415	1770259		1842509	21556721	11.70
5	Aug-15	6293	1724397		1843846	16761061	9.09
6	Sep-15	4736	1765605		1822766	12328487	6.76
7	Oct-15	3968	1773454		1826399	10479638	5.74
8	Nov-15	3724	1774137		1830724	9839235	5.37
9	Dec-15	3567	1750816		1832686	9537211	5.20
10	Jan-16	3802	1771919		1847340	10227808	5.54
11	Feb-16	3215	1752906		1815010	8667664	4.78
12	Mar-16	3830	1745266		1840325	10186854	5.54



**Uttar Gujarat Vij Company Ltd.**

**YEAR 2015-16 (APRIL-15 TO MARCH-16)**

**SoP 011 - A : System Average Interruption Frequency Index (SAIFI) for Other than AG & JGY category**

Sr. No	Month	Ni - Number of Customers for each sustained interruptions (in numbers)	N <sub>r</sub> - Total No of customers served (in Numbers)	CI=Σ Ni	SAIFI = $\frac{\sum Ni}{Nt}$ (Monthly SAIFI)
1	2	3	4	5	6=5/4
1	Apr-15	611134	846696	2080277	2.46
2	May-15	644181	846283	1730913	2.05
3	Jun-15	701967	857306	2772142	3.23
4	Jul-15	737586	856201	5508511	6.43
5	Aug-15	657284	865718	3132488	3.62
6	Sep-15	619488	865352	2300679	2.66
7	Oct-15	627600	865103	1787860	2.07
8	Nov-15	535052	869879	1184082	1.36
9	Dec-15	649162	868992	1879788	2.16
10	Jan-16	788265	871406	1859822	2.13
11	Feb-16	740368	867354	1717429	1.98
12	Mar-16	745581	868767	1299096	1.50

**SoP 011 - B : System Average Interruption Duration Index (SAIDI) for Other than AG & JGY category**

Sr. No	Month	Ri = Restoration Time for each sustained interruption event (in hours)	Ni - Number of interrupted Customers for each sustained interruption event (in numbers)	Ri* Ni - Total customer interruption Duration	NT - Total No of customers served (in Numbers)	Customer Intt. Duration CMI = $\frac{\sum Ri * Ni}{Nt}$	SAIDI = $\frac{\sum Ri * Ni}{Nt}$ (Monthly SAIDI)
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Apr-15	1877:00	611134		846696	2256980:58	2:39
2	May-15	3713:42	644181		846283	3241687:00	3:49
3	Jun-15	3629:03	701967		857306	3089324:45	3:36
4	Jul-15	8251:59	737586		856201	10568239:24	12:20
5	Aug-15	2929:38	657284		865718	3033869:20	3:30
6	Sep-15	2108:20	619488		865352	2662064:42	3:04
7	Oct-15	2104:57	627600		865103	2978752:39	3:26
8	Nov-15	1276:31	535052		869879	1252554:56	1:26
9	Dec-15	3094:19	649162		868992	3461139:49	3:58
10	Jan-16	1701:56	582951		871406	2141272:29	2:27
11	Feb-16	2478:07	642903		867354	3107541:51	3:34
12	Mar-16	2046:59	524964		868767	1723027:48	1:59

**SoP 011 - C : Momentary Average Interruption Frequency Index (MAIFI) for Other than AG & JGY category**

Sr. No	Month	IMi = Number of Momentary interruptions for the month (in numbers)	Nmi = Total no of customers for each momentary interruptions (in numbers)	Imi =Nmi Number of customer Momentary interruptions (in numbers)	Nt - Total no of customers served (in numbers)	Customer Intt. $\sum Imi * Nmi$	MAIFI= $\frac{\sum Imi * Nmi}{Nt}$
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Apr-15	1583	753275		846696	3285373	3.88
2	May-15	1425	723653		846283	2480166	2.93
3	Jun-15	1922	791092		857306	3715188	4.33
4	Jul-15	2978	791886		856201	5558299	6.49
5	Aug-15	2091	767650		865718	3895060	4.50
6	Sep-15	1647	735017		865352	2885277	3.33
7	Oct-15	1429	722054		865103	2577268	2.98
8	Nov-15	1356	728298		869879	2446979	2.81
9	Dec-15	1358	759780		868992	2568301	2.96
10	Jan-16	1691	788265		871406	3767127	4.32
11	Feb-16	1244	740368		867354	2269747	2.62
12	Mar-16	1469	745581		868767	2452182	2.82

**UGVCL**  
**Uttar Gujarat Vij Company Ltd.**

**YEAR 2015-16 (APRIL-15 TO MARCH-16)**

**SoP 011 - A : System Average Interruption Frequency Index (SAIFI) for UGVCL as a whole**

Sr. No	Month	N <sub>i</sub> - Number of Customers for each sustained interruptions (in numbers)	N <sub>T</sub> - Total No of customers served (in Numbers)	CI=Σ Ni	SAIFI = Σ Ni/Nt (Monthly SAIFI)
1	2	3	4	5	6=5/4
1	Apr-15	2427851	3037256	8980798	2.96
2	May-15	2321454	3045874	6840678	2.25
3	Jun-15	2630037	3091291	12674248	4.10
4	Jul-15	2797669	3107705	20991693	6.75
5	Aug-15	2448688	3117833	12791064	4.10
6	Sep-15	2516570	3098918	9842123	3.18
7	Oct-15	2348821	3100934	6924291	2.23
8	Nov-15	2012321	3112320	5020232	1.61
9	Dec-15	2256709	3113933	6586565	2.12
10	Jan-16	2937487	3138771	6624428	2.11
11	Feb-16	2912490	3101580	5692958	1.84
12	Mar-16	2885795	3131994	5613004	1.79

**SoP 011 - B : System Average Interruption Duration Index (SAIDI) for UGVCL as a whole**

Sr. No	Month	R <sub>i</sub> = Restoration Time for each sustained interruption event (in hours)	N <sub>i</sub> - Number of interrupted Customers for each sustained interruption event (in numbers)	R <sub>i</sub> * N <sub>i</sub> - Total customer interruption Duration	N <sub>T</sub> - Total No of customers served (in Numbers)	Customer Intt. Duration CMI = ΣR <sub>i</sub> *N <sub>i</sub>	SAIDI = ΣR <sub>i</sub> *N <sub>i</sub> /Nt (Monthly SAIDI)
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Apr-15	20320:58	2427851		3037256	12839401:13	4:13
2	May-15	17510:19	2321454		3045874	12022101:34	3:56
3	Jun-15	28531:48	2630037		3091291	17774694:43	5:45
4	Jul-15	29822:00	2797669		3107705	64358939:30	20:42
5	Aug-15	67885:07	2448688		3117833	22552501:44	7:14
6	Sep-15	24305:38	2516570		3098918	13902988:48	4:29
7	Oct-15	16087:03	2348821		3100934	11970596:40	3:51
8	Nov-15	11105:28	2012321		3112320	6962723:25	2:14
9	Dec-15	18767:54	2256709		3113933	13685229:42	4:23
10	Jan-16	13655:12	2937487		3138771	9210490:18	2:56
11	Feb-16	12712:40	2912490		3101580	10040087:05	3:14
12	Mar-16	12358:04	2885795		3131994	7624583:54	2:26

**SoP 011 - C : Momentary Average Interruption Frequency Index (MAIFI) for UGVCL as a whole**

Sr. No	Month	IM <sub>i</sub> = Number of Momentary interruptions for the month (in numbers)	N <sub>mi</sub> = Total no of customers for each momentary interruptions (in numbers)	Im <sub>i</sub> =N <sub>mi</sub> Number of customer Momentary interruptions (in numbers)	N <sub>T</sub> - Total no of customers served (in numbers)	Customer Intt. ΣIm <sub>i</sub> *N <sub>mi</sub>	MAIFI=ΣIm <sub>i</sub> *N <sub>mi</sub> /Nt
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Apr-15	16785	2823419		3037256	16758845	5.52
2	May-15	14445	2791364		3045874	13862228	4.55
3	Jun-15	18597	2922870		3091291	18702309	6.05
4	Jul-15	30111	2946813		3107705	30720990	9.89
5	Aug-15	38902	2877773		3117833	23528120	7.55
6	Sep-15	18157	2889375		3098918	17426540	5.62
7	Oct-15	14419	2879201		3100934	14888044	4.80
8	Nov-15	13767	2882996		3112320	13941882	4.48
9	Dec-15	12948	2891044		3113933	13722234	4.41
10	Jan-16	12970	2937487		3138771	15480845	4.93
11	Feb-16	11644	2871717		3101580	12384411	3.99
12	Mar-16	14039	2885795		3131994	14384589	4.59