

# Uttar Gujarat Vij Company Ltd

YEAR 2013-14 (APRIL-13 TO MARCH-14)

## SoP 011 - A : System Average Interruption Frequency Index (SAIFI) for AG. Dominant 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-13	300503	378100	1386732	3.67
2	May-13	254492	378580	860992	2.27
3	Jun-13	304334	380089	1695851	4.46
4	Jul-13	315439	351091	1937810	5.52
5	Aug-13	285580	352834	1339547	3.80
6	Sep-13	311172	354038	1710835	4.83
7	Oct-13	343184	365494	1270993	3.48
8	Nov-13	340394	371674	1010057	2.72
9	Dec-13	324258	377408	1101577	2.92
10	Jan-14	311105	377551	1047733	2.78
11	Feb-14	308174	379024	955999	2.52
12	Mar-14	359875	416283	787969	1.89

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

### Dominant 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-13	26299:59	300503		378100	3529710:00	09:20
2	May-13	18212:18	254492		378580	1985359:43	05:14
3	Jun-13	20964:09	304334		380089	3669999:10	09:39
4	Jul-13	22356:28	315439		351091	3902934:20	11:07
5	Aug-13	12165:41	285580		352834	2113436:19	5:59
6	Sep-13	20438:07	311172		354038	3204548:47	9:03
7	Oct-13	13034:57	343184		365494	2356299:59	6:26
8	Nov-13	9418:20	340394		371674	1653431:30	4:26
9	Dec-13	9865:27	324258		377408	1971390:33	5:13
10	Jan-14	10980:37	262121		377551	2252851:15	5:58
11	Feb-14	17523:22	249136		379024	1667732:27	4:24
12	Mar-14	7972:53	259508		416283	1406514:40	3:22

## 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. 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-13	9534	347840		378100	1740655	4.60
2	May-13	7472	316403		378580	1452744	3.84
3	Jun-13	10902	335148		380089	2173985	5.72
4	Jul-13	13895	335904		351091	2216062	6.31
5	Aug-13	11572	330821		352834	2001228	5.67
6	Sep-13	11044	340414		354038	2304043	6.51
7	Oct-13	11363	343184		365494	2050080	5.61
8	Nov-13	10427	340394		371674	1727490	4.65
9	Dec-13	9052	324258		377408	1589015	4.21
10	Jan-14	7726	311105		377551	1352851	3.58
11	Feb-14	7178	308174		379024	1221484	3.22
12	Mar-14	7940	359875		416283	1633405	3.92

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### 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-13	1400875	1657927	5524561	3.33
2	May-13	1172276	1678861	3245864	1.93
3	Jun-13	1466311	1684578	7245737	4.30
4	Jul-13	1572876	1680321	8819258	5.25
5	Aug-13	1407212	1682201	6063439	3.60
6	Sep-13	1554226	1692917	8005254	4.73
7	Oct-13	1720529	1748071	5532865	3.17
8	Nov-13	1662135	1749689	3524623	2.01
9	Dec-13	1647040	1756879	3382853	1.93
10	Jan-14	1591298	1758786	3866641	2.20
11	Feb-14	1541601	1767851	2929185	1.66
12	Mar-14	1527765	1724804	2809921	1.63

### 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-13	5945:13	1400875		1657927	10436707:45	06:17
2	May-13	4022:46	1172276		1678861	8235954:23	04:54
3	Jun-13	4192:24	1466311		1684578	9503459:48	05:38
4	Jul-13	4696:36	1572876		1680321	11111766:02	06:36
5	Aug-13	2845:56	1407212		1682201	6892792:04	04:05
6	Sep-13	5318:18	1554226		1692917	10801226:51	06:22
7	Oct-13	3787:19	1720529		1748071	7565676:04	04:19
8	Nov-13	1838:45	1662135		1749689	4705589:16	02:41
9	Dec-13	2350:53	1647040		1756879	6243374:37	03:33
10	Jan-14	2497:54	1591298		1758786	5951624:43	03:23
11	Feb-14	2098:07	1541601		1767851	4714912:56	02:40
12	Mar-14	1833:33	1527765		1724804	4000906:58	02:19

### 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>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-13	4381	1626278		1657927	11754844	7.09
2	May-13	3702	1535058		1678861	10150042	6.05
3	Jun-13	5299	1590826		1684578	14490184	8.60
4	Jul-13	6081	1668732		1680321	16360244	9.74
5	Aug-13	5267	1648598		1682201	14177601	8.43
6	Sep-13	6204	1667455		1692917	16184262	9.56
7	Oct-13	5263	1720529		1748071	14612228	8.36
8	Nov-13	4326	1662135		1749689	11910127	6.81
9	Dec-13	4325	1647040		1756879	11049946	6.29
10	Jan-14	4000	1591298		1758786	10987825	6.25
11	Feb-14	3309	1541601		1767851	9059781	5.12
12	Mar-14	4021	1527765		1724804	10213865	5.92

**Uttar Gujarat Vij Company Ltd**  
**YEAR 2013-14 (APRIL-13 TO MARCH-14)**

**SoP 011 - A : System Average Interruption Frequency Index (SAIFI) for Other than AG & 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-13	715394	804307	3132114	3.89
2	May-13	617999	815514	1926053	2.36
3	Jun-13	662127	813392	2800136	3.44
4	Jul-13	739710	786744	2834623	3.60
5	Aug-13	731483	787064	2000239	2.54
6	Sep-13	727151	818928	2807987	3.43
7	Oct-13	713889	820844	2004067	2.44
8	Nov-13	748403	825639	1441710	1.75
9	Dec-13	736843	827259	1827819	2.21
10	Jan-14	747710	819670	2838432	3.46
11	Feb-14	700415	818503	1341329	1.64
12	Mar-14	697537	828857	1311086	1.58

**SoP 011 - B : System Average Interruption Duration Index (SAIDI) for Other than AG & 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-13	2078:08	715394		804307	3120392:08	03:52
2	May-13	1808:36	617999		815514	1816176:58	02:13
3	Jun-13	2862:13	662127		813392	3460144:29	04:15
4	Jul-13	2768:56	739710		786744	3337586:01	04:14
5	Aug-13	1789:03	731483		787064	1855386:51	02:21
6	Sep-13	2518:56	786991		818928	3009331:41	03:40
7	Oct-13	2584:09	713889		820844	2697525:27	03:17
8	Nov-13	1670:13	748403		825639	1327514:07	01:36
9	Dec-13	2420:11	736843		827259	3516314:49	04:15
10	Jan-14	3729:55	747710		819670	3006793:08	03:40
11	Feb-14	1522:32	700415		818503	1521650:07	01:51
12	Mar-14	1780:32	697537		828857	2080934:11	02:30

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

Sr. No	Month	IM <sub>i</sub> = Number of Momentary interruptions for the month (in numbers)	N <sub>m<sub>i</sub></sub> = Total no of customers for each momentary interruptions (in numbers)	IM <sub>i</sub> =N <sub>m<sub>i</sub></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>m<sub>i</sub></sub>	MAIFI=ΣIM <sub>i</sub> *N <sub>m<sub>i</sub></sub> /Nt
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Apr-13	1667	874664		804307	3239983	4.03
2	May-13	1403	785140		815514	2680524	3.29
3	Jun-13	2186	709049		813392	3754353	4.62
4	Jul-13	2120	676439		786744	4037635	5.13
5	Aug-13	1738	602230		787064	3258721	4.14
6	Sep-13	2238	727151		818928	4376313	5.34
7	Oct-13	1894	713889		820844	3379084	4.12
8	Nov-13	1708	748403		825639	3224773	3.91
9	Dec-13	1543	736843		827259	2916359	3.53
10	Jan-14	1958	747710		819670	4211625	5.14
11	Feb-14	1294	700415		818503	2205795	2.69
12	Mar-14	1556	697537		828857	2750315	3.32

**Uttar Gujarat Vij Company Ltd**  
**YEAR 2013-14 (APRIL-13 TO MARCH-14)**

**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-13	2416772	2840334	10043407	3.54
2	May-13	2044767	2872755	6674036	2.32
3	Jun-13	2432772	2878059	11741724	4.08
4	Jul-13	2628025	2818156	13591691	4.82
5	Aug-13	2424275	2822099	9403225	3.33
6	Sep-13	2592549	2865883	12524076	4.37
7	Oct-13	2777602	2934409	8807925	3.00
8	Nov-13	2750932	2947002	5976390	2.03
9	Dec-13	2708141	2961546	6312249	2.13
10	Jan-14	2650113	2956007	7752806	2.62
11	Feb-14	2550190	2965378	5226513	1.76
12	Mar-14	2585177	2969944	4908976	1.65

**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-13	36242:52	2416772		2840334	17918711:56	06:18
2	May-13	22428:07	2044767		2872755	9134087:23	03:10
3	Jun-13	28018:46	2432772		2878059	16633603:28	05:46
4	Jul-13	29822:00	2628025		2818156	18352286:23	06:30
5	Aug-13	16800:41	2424275		2822099	10861615:15	03:50
6	Sep-13	28275:21	2592549		2865883	17015107:19	05:56
7	Oct-13	19406:25	2777602		2934409	12619501:30	04:18
8	Nov-13	12927:19	2750932		2947002	7686534:54	02:36
9	Dec-13	14636:32	2708141		2961546	11731080:00	03:57
10	Jan-14	29822:00	2650113		2956007	11211269:07	03:47
11	Feb-14	21144:01	2550190		2965378	7904295:31	02:39
12	Mar-14	11586:58	2585177		2969944	7488355:49	02:31

**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-13	15582	2848782		2840334	16735482	5.89
2	May-13	12577	2636601		2872755	15000586	5.22
3	Jun-13	18387	2635023		2878059	20418522	7.09
4	Jul-13	22096	2681075		2818156	22613941	8.02
5	Aug-13	18577	2581649		2822099	19437550	6.89
6	Sep-13	19486	2735020		2865883	22864618	7.98
7	Oct-13	18520	2777602		2934409	20041392	6.83
8	Nov-13	16461	2750932		2947002	16862390	5.72
9	Dec-13	14920	2708141		2961546	15555320	5.25
10	Jan-14	13684	2650113		2956007	16552301	5.60
11	Feb-14	11781	2550190		2965378	12487060	4.21
12	Mar-14	13517	2585177		2969944	14597585	4.92