

**Uttar Gujarat Vij Company Ltd ,Mehsana**  
**QUARTER :-1st April-13 to June-13**  
**YEAR :-2013-14**

**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 = $\frac{\sum Ni}{N_t}$ (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

**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 = $\frac{\sum Ri * Ni}{N_t}$	SAIDI = $\frac{\sum Ri * Ni}{N_t}$ (Monthly SAIDI)
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Apr-13	26299:59	300503		378100	3529710:00	9:20
2	May-13	18212:18	254492		378580	1985359:43	5:14
3	Jun-13	20964:09	304334		380089	3669999:10	9:39

**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. $\frac{\sum Im_i * N_{mi}}{N_t}$	MAIFI= $\frac{\sum Im_i * N_{mi}}{N_t}$
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

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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

**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	6:17
2	May-13	4022:46	1172276		1678861	8235954:23	4:54
3	Jun-13	4192:24	1466311		1684578	9503459:48	5:38

**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> /N <sub>t</sub>
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

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**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 = $\frac{\sum Ni}{Nt}$ (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

**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 customer s 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-13	2078:08	715394		804307	3120392:08	3:52
2	May-13	1808:36	617999		815514	1816176:58	2:13
3	Jun-13	2862:13	662127		813392	3460144:29	4:15

**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>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 customer s served (in numbers)	Customer Intt. $\frac{\sum Imi * Nmi}{Nt}$	MAIFI= $\frac{\sum Imi * Nmi}{Nt}$
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

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**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 = $\frac{\sum Ni}{N_t}$ (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

**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 = $\frac{\sum Ri * Ni}{N_t}$	SAIDI = $\frac{\sum Ri * Ni}{N_t}$ (Monthly SAIDI)
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Apr-13	36242:52	2416772		2840334	17918711:56	6:18
2	May-13	22428:07	2044767		2872755	9134087:23	3:10
3	Jun-13	28018:46	2432772		2878059	16633603:28	5:46

**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. $\sum Im_i * N_{mi}$	MAIFI= $\frac{\sum Im_i * N_{mi}}{N_t}$
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