

Uttar Gujarat Vij Company Ltd ,Mehsana
QUARTER :- 2nd (July 13 to Sept 13)
YEAR :-2013-14

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

Sr. No	Month	N _i - Number of Customers for each sustained interruptions (in numbers)	N _T - 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	Jul-13	315439	351091	1937810	5.52
2	Aug-13	285580	352834	1339547	3.80
3	Sep-13	311172	354038	1710835	4.83

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

Sr. No	Month	R _i = Restoration Time for each sustained interruption event (in hours)	N _i - Number of interrupted Customers for each sustained interruption event (in numbers)	R _i * N _i - Total customer interruption Duration	N _T - 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	Jul-13	22356:28	315439		351091	3902934:20	11:07
2	Aug-13	12165:41	285580		352834	2113436:19	5:59
3	Sep-13	20438:07	311172		354038	3204548:47	9:03

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

Sr. No	Month	IM _i = Number of Momentary interruptions for the month (in numbers)	N _{mi} = Total no of customers for each momentary interruptions (in numbers)	Im _i =N _{mi} Number of customer Momentary interruptions (in numbers)	N _t - Total no of customers 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	Jul-13	13895	335904		351091	2216062	6.31
2	Aug-13	11572	330821		352834	2001228	5.67
3	Sep-13	11044	340414		354038	2304043	6.51

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

Sr. No	Month	N _i - Number of Customers for each sustained interruptions (in numbers)	N _T - 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	Jul-13	1572876	1680321	8819258	5.25
2	Aug-13	1407212	1682201	6063439	3.60
3	Sep-13	1554226	1692917	8005254	4.73

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

Sr. No	Month	R _i = Restoration Time for each sustained interruption event (in hours)	N _i - Number of interrupted Customers for each sustained interruption event (in numbers)	R _i * N _i - Total customer interruption Duration	N _T - Total No of customers served (in Numbers)	Customer Intt. Duration CMI = ΣR _i *N _i	SAIDI = ΣR _i *N _i /Nt (Monthly SAIDI)
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Jul-13	4696:36	1572876		1680321	11111766:02	06:36
2	Aug-13	2845:56	1407212		1682201	6892792:04	04:05
3	Sep-13	5318:18	1554226		1692917	10801226:51	06:22

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

Sr. No	Month	IM _i = Number of Momentary interruptions for the month (in numbers)	N _{mi} = Total no of customers for each momentary interruptions (in numbers)	Im _i =N _{mi} Number of customer Momentary interruptions (in numbers)	N _t - Total no of customers served (in numbers)	Customer Intt. ΣIm _i *N _{mi}	MAIFI=ΣIm _i *N _{mi} /N _t
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Jul-13	6081	1668732		1680321	16360244	9.74
2	Aug-13	5267	1648598		1682201	14177601	8.43
3	Sep-13	6204	1667455		1692917	16184262	9.56

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

Sr. No	Month	N _i - Number of Customers for each sustained interruptions (in numbers)	N _T - 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	Jul-13	739710	786744	2834623	3.60
2	Aug-13	731483	787064	2000239	2.54
3	Sep-13	727151	818928	2807987	3.43

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

Sr. No	Month	R _i = Restoration Time for each sustained interruption event (in hours)	N _i - Number of interrupted Customers for each sustained interruption event (in numbers)	R _i * N _i - Total customer interruption Duration	N _T - 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	Jul-13	2768:56	739710		786744	3337586:01	04:14
2	Aug-13	1789:03	731483		787064	1855386:51	02:21
3	Sep-13	2518:56	786991		818928	3009331:41	03:40

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

Sr. No	Month	IM _i = Number of Momentary interruptions for the month (in numbers)	N _{mi} = Total no of customers for each momentary interruptions (in numbers)	Im _i =N _{mi} Number of customer Momentary interruptions (in numbers)	N _t - Total no of customers 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	Jul-13	2120	676439		786744	4037635	5.13
2	Aug-13	1738	602230		787064	3258721	4.14
3	Sep-13	2238	727151		818928	4376313	5.34

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

Sr. No	Month	N _i - Number of Customers for each sustained interruptions (in numbers)	N _T - 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	Jul-13	2628025	2818156	13591691	4.82
2	Aug-13	2424275	2822099	9403225	3.33
3	Sep-13	2592549	2865883	12524076	4.37

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

Sr. No	Month	R _i = Restoration Time for each sustained interruption event (in hours)	N _i - Number of interrupted Customers for each sustained interruption event (in numbers)	R _i * N _i - Total customer interruption Duration	N _T - Total No of customers served (in Numbers)	Customer Intt. Duration CMI = ΣR _i *N _i	SAIDI = ΣR _i *N _i /Nt (Monthly SAIDI)
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Jul-13	29822:00	2628025		2818156	18352286:23	06:30
2	Aug-13	16800:41	2424275		2822099	10861615:15	03:50
3	Sep-13	28275:21	2592549		2865883	17015107:19	05:56

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

Sr. No	Month	IM _i = Number of Momentary interruptions for the month (in numbers)	N _{mi} = Total no of customers for each momentary interruptions (in numbers)	Im _i =N _{mi} Number of customer Momentary interruptions (in numbers)	N _t - Total no of customers served (in numbers)	Customer Intt. ΣIm _i *N _{mi}	MAIFI=ΣIm _i *N _{mi} /Nt
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Jul-13	22096	2681075		2818156	22613941	8.02
2	Aug-13	18577	2581649		2822099	19437550	6.89
3	Sep-13	19486	2735020		2865883	22864618	7.98