

Uttar Gujarat Vij Company Ltd ,Mehsana
QUARTER :- 4th (Jan-16 to Mar-16)
YEAR :-2015-16

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 = $\frac{\sum Ni}{N_t}$ (Monthly SAIFI)
1	2	3	4	5	6=5/4
1	Jan-16	377303	420025	1065117	2.54
2	Feb-16	378443	419216	858299	2.05
3	Mar-16	394948	422902	955766	2.26

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 = $\frac{\sum Ri * Ni}{N_t}$	SAIDI = $\frac{\sum Ri * Ni}{N_t}$ (Monthly SAIDI)
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Jan-16	9976:42	292262		420025	2097780:22	4:59
2	Feb-16	7987:51	273944		419216	1671883:36	3:59
3	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 _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. $\sum Im_i * N_{mi}$	MAIFI= $\frac{\sum Im_i * N_{mi}}{N_t}$
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Jan-16	7477	377303		420025	1485910	3.54
2	Feb-16	7185	378443		419216	1447000	3.45
3	Mar-16	8740	394948		422902	1745553	4.13

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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	Jan-16	1771919	1847340	3699489	2.00
2	Feb-16	1752906	1815010	3117230	1.72
3	Mar-16	1745266	1840325	3358142	1.82

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	Jan-16	1976:34	1301427		1847340	4971437:27	2:41
2	Feb-16	2246:42	1231078		1815010	5260661:38	2:53
3	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 _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	Jan-16	3802	1771919		1847340	10227808	5.54
2	Feb-16	3215	1752906		1815010	8667664	4.78
3	Mar-16	3830	1745266		1840325	10186854	5.54

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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 = $\frac{\sum Ni}{N_t}$ (Monthly SAIFI)
1	2	3	4	5	6=5/4
1	Jan-16	788265	871406	1859822	2.13
2	Feb-16	740368	867354	1717429	1.98
3	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	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 = $\frac{\sum Ri * Ni}{N_t}$	SAIDI = $\frac{\sum Ri * Ni}{N_t}$ (Monthly SAIDI)
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Jan-16	1701:56	582951		871406	2141272:29	2:27
2	Feb-16	2478:07	642903		867354	3107541:51	3:34
3	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	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. $\sum Im_i * N_{mi}$	MAIFI = $\frac{\sum Im_i * N_{mi}}{N_t}$
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Jan-16	1691	788265		871406	3767127	4.32
2	Feb-16	1244	740368		867354	2269747	2.62
3	Mar-16	1469	745581		868767	2452182	2.82

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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 = $\frac{\sum Ni}{Nt}$ (Monthly SAIFI)
1	2	3	4	5	6=5/4
1	Jan-16	2937487	3138771	6624428	2.11
2	Feb-16	2912490	3101580	5692958	1.84
3	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 _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	Jan-16	13655:12	2937487		3138771	9210490:18	2:56
2	Feb-16	12712:40	2912490		3101580	10040087:05	3:14
3	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 _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	Jan-16	12970	2937487		3138771	15480845	4.93
2	Feb-16	11644	2871717		3101580	12384411	3.99
3	Mar-16	14039	2885795		3131994	14384589	4.59