

Uttar Gujarat Vij Company Ltd ,Mehsana
QUARTER :- 4th (Jan-17 to Mar-17)
YEAR :-2016-17

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-17	425821	461709	1156022	2.50
2	Feb-17	430546	468052	1089885	2.33
3	Mar-17	439138	469890	1023416	2.18

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 = ΣR _i *N _i	SAIDI = $\frac{\sum Ri * Ni}{N_t}$ (Monthly SAIDI)
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Jan-17	16146:12	335007		461709	3118860:44	6:45
2	Feb-17	10011:13	318559		468052	2201415:01	4:42
3	Mar-17	8001:28	315384		469890	1714093:30	3:38

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. ΣIm _i *N _{mi}	MAIFI=ΣIm _i *N _{mi} /N _t
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Jan-17	7782	425821		461709	1570022	3.40
2	Feb-17	7536	430546		468052	1615538	3.45
3	Mar-17	8484	439138		469890	1754961	3.73

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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-17	1782161	1833312	3401383	1.86
2	Feb-17	1699577	1853209	3131534	1.69
3	Mar-17	1750792	1861004	2725243	1.46

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-17	2441:14	1315652		1833312	5683163:31	3:06
2	Feb-17	2458:33	1256578		1853209	5774492:14	3:06
3	Mar-17	1615:26	1135478		1861004	3983118:47	2:08

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	Jan-17	3468	1782161		1833312	9181727	5.01
2	Feb-17	3121	1699577		1853209	7778764	4.20
3	Mar-17	3665	1750792		1861004	9103685	4.89

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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	Jan-17	795782	905553	1936532	2.14
2	Feb-17	699588	906354	1475022	1.63
3	Mar-17	777732	925530	1028540	1.11

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 = ΣR _i *N _i	SAIDI = $\frac{\sum Ri * Ni}{Nt}$ (Monthly SAIDI)
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Jan-17	2594:11	637074		905553	2851503:46	3:08
2	Feb-17	2325:22	556397		906354	2874535:21	3:10
3	Mar-17	1009:07	484258		925530	1171113:30	1:15

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. ΣIm _i *N _{mi}	MAIFI=ΣIm _i * N _{mi} /N _t
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Jan-17	1596	795782		905553	3392225	3.75
2	Feb-17	1270	699588		906354	2225226	2.46
3	Mar-17	1444	777732		925530	2549452	2.75

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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-17	3003764	3200574	6493937	2.03
2	Feb-17	2867217	3227615	5696441	1.76
3	Mar-17	2967662	3256424	4777199	1.47

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	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-17	21181:37	3003764		3200574	11653528:01	3:38
2	Feb-17	14795:08	2867217		3227615	10850442:36	3:21
3	Mar-17	10626:02	2967662		3256424	6868325:47	2:06

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-17	12846	3003764		3200574	14143974	4.42
2	Feb-17	11927	2829711		3227615	11619528	3.60
3	Mar-17	13593	2967662		3256424	13408098	4.12