

UGVCL
Uttar Gujarat Vij Company Ltd.

QUARTER :- 2nd (July-16 to Sept-16)
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 = Σ Ni/Nt (Monthly SAIFI)
1	2	3	4	5	6=5/4
1	Jul-16	381542	434447	2104233	4.84
2	Aug-16	388119	435674	2031587	4.66
3	Sep-16	369664	436835	1755623	4.02

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 = ΣR _i *N _i /Nt (Monthly SAIDI)
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Jul-16	20259:31	381542		434447	3859365:27	8:53
2	Aug-16	17596:50	388119		435674	3429072:07	7:52
3	Sep-16	15179:59	369664		436835	3342425:45	7:39

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} /Nt
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Jul-16	13560	422290		434447	2576207	5.93
2	Aug-16	13489	420912		435674	2576018	5.91
3	Sep-16	11306	419449		436835	2281130	5.22


Uttar Gujarat Vij Company Ltd.

QUARTER :- 2nd (July-16 to Sept-16)
YEAR :-2016-17

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-16	1546596	1858998	6879051	3.70
2	Aug-16	1527308	1835829	6464618	3.52
3	Sep-16	1458420	1836501	4723951	2.57

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-16	3523:35	1546596		1858998	8607156:25	4:37
2	Aug-16	3463:29	1527308		1835829	7576768:29	4:07
3	Sep-16	2907:02	1458420		1836501	7124766:47	3:52

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-16	5253	1822140		1858998	13260715	7.13
2	Aug-16	5203	1814824		1835829	13045934	7.11
3	Sep-16	4321	1765681		1836501	11444071	6.23


Uttar Gujarat Vij Company Ltd.

QUARTER :- 2nd (July-16 to Sept-16)
YEAR :-2016-17

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 = $\sum \frac{Ni}{Nt}$ (Monthly SAIFI)
1	2	3	4	5	6=5/4
1	Jul-16	718219	877742	2457687	2.80
2	Aug-16	706577	889217	2564724	2.88
3	Sep-16	680630	892498	1894002	2.12

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 = $\sum R_i * N_i$	SAIDI = $\frac{\sum R_i * N_i}{N_t}$ (Monthly SAIDI)
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Jul-16	2826:01	718219		877742	3027581:44	3:26
2	Aug-16	2472:04	706577		889217	2498332:32	2:48
3	Sep-16	2459:28	680630		892498	2796645:37	3:08

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	Jul-16	1990			877742	3569488	4.07
2	Aug-16	1793	744318		889217	2923006	3.29
3	Sep-16	1573	752140		892498	2229781	2.50


Uttar Gujarat Vij Company Ltd.

QUARTER :- 2nd (July-16 to Sept-16)

YEAR :-2016-17

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 = $\sum \frac{Ni}{Nt}$ (Monthly SAIFI)
1	2	3	4	5	6=5/4
1	Jul-16	2646357	3171187	11440971	3.61
2	Aug-16	2622004	3160720	11060929	3.50
3	Sep-16	2508714	3165834	8373576	2.64

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 = $\sum Ri*Ni$	SAIDI = $\frac{\sum Ri*Ni}{Nt}$ (Monthly SAIDI)
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Jul-16		2646357		3171187	15494103:37	4:53
2	Aug-16	23532:23	2622004		3160720	13504173:08	4:16
3	Sep-16		2508714		3165834	13263838:09	4:11

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. $\sum Imi*Nmi$	MAIFI= $\frac{\sum Imi*Nmi}{Nt}$
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Jul-16	20803	2244430		3171187	19406409.6	6.12
2	Aug-16	20485	2980054		3160720	18544958.4	5.87
3	Sep-16	17200	2937270		3165834	15954981.8	5.04