



UGVCL

Uttar Gujarat Vij Company Ltd.

QUARTER :-1st April-17 to June-17
YEAR :-2017-18

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	Apr-17	323997	481203	1018378	2.12
2	May-17	360845	478693	1327972	2.77
3	Jun-17	416553	478612	2336648	4.88

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	Apr-17	9027:23	323997		481203	1570431:58	3:15
2	May-17	12688:47	360845		478693	2499213:41	5:13
3	Jun-17	23184:55	416553		478612	4632573:18	9:40

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	Apr-17	8268	443811		481203	1709568	3.55
2	May-17	8463	445606		478693	1772286	3.70
3	Jun-17	11915	441123		478612	2349654	4.91



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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	Apr-17	1237775	1885609	3069480	1.63
2	May-17	1361485	1884254	3986599	2.12
3	Jun-17	1756449	1890540	8269598	4.37

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	Apr-17	1716:35	1237775		1885609	3943345:37	2:05
2	May-17	2630:58	1361485		1884254	6054569:38	3:12
3	Jun-17	4709:05	1756449		1890540	11073087:39	5:51

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	Apr-17	3565	1778023		1885609	9192519	4.88
2	May-17	3700	1768370		1884254	9725174	5.16
3	Jun-17	5182	1841741		1890540	13242899	7.00

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

Sr. No	Month	Ni - 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	Apr-17	576581	923018	1371349	1.49
2	May-17	588909	921113	1793997	1.95
3	Jun-17	792039	913589	3425198	3.75

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

Sr. No	Month	Ri = Restoration Time for each sustained interruption event (in hours)	Ni - Number of interrupted Customers for each sustained interruption event (in numbers)	Ri* Ni - Total customer interruption Duration	N _T - Total No of customers served (in Numbers)	Customer Intt. Duration CMI = ΣRi*Ni	SAIDI = ΣRi*Ni/Nt (Monthly SAIDI)
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Apr-17	1721:38	576581		923018	1709949:54	1:51
2	May-17	1851:21	588909		921113	2039843:19	2:12
3	Jun-17	2861:54	792039		913589	3584041:27	3:55

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. ΣImi*Nmi	MAIFI=ΣImi*N mi/Nt
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Apr-17	1548	762627		923018	2672889	2.90
2	May-17	1388	789502		921113	2680728	2.91
3	Jun-17	1886	807362		913589	3544089	3.88

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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 = $\frac{\sum Ni}{N_t}$ (Monthly SAIFI)
1	2	3	4	5	6=5/4
1	Apr-17	2138353	3289830	5459207	1.66
2	May-17	2311239	3284060	7108568	2.16
3	Jun-17	2965041	3282741	14031444	4.27

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 = $\frac{\sum Ri * Ni}{N_t}$	SAIDI = $\frac{\sum Ri * Ni}{N_t}$ (Monthly SAIDI)
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Apr-17	12465:37	2138353		3289830	7223727:29	2:11
2	May-17	17171:06	2311239		3284060	10593626:38	3:13
3	Jun-17	30755:54	2965041		3282741	19289702:24	5:52

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. $\sum Im_i * N_{mi}$	MAIFI = $\frac{\sum Im_i * N_{mi}}{N_t}$
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Apr-17	13381	2984461		3289830	13574976	4.13
2	May-17	13551	3003478		3284060	14178188	4.32
3	Jun-17	18983	3090226		3282741	19136642	5.83