

QUARTER :-3rd (Oct-14 to Dec-14)

YEAR :-2014-15

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	Oct-14	290189	377088	1328228	3.52
2	Nov-14	270404	388219	996047	2.57
3	Dec-14	264747	391861	1088440	2.78

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 = $\frac{\sum Ri \cdot Ni}{N_t}$	SAIDI = $\frac{\sum Ri \cdot Ni}{N_t}$ (Monthly SAIDI)
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Oct-14	10977:05	290189		377088	2161359:48	5:43
2	Nov-14	10121:04	270404		388219	1939211:29	4:59
3	Dec-14	10912:09	264747		391861	2125454:19	5:25

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. $\sum Im_i \cdot N_{mi}$	MAIFI= $\frac{\sum Im_i \cdot N_{mi}}{N_t}$
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Oct-14	10768	353592		377088	2036525	5.40
2	Nov-14	10007	363590		388219	1914728	4.93
3	Dec-14	8879	353351		391861	1660381	4.24

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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 = $\sum Ni/Nt$ (Monthly SAIFI)
1	2	3	4	5	6=5/4
1	Oct-14	1295550	1743346	3403390	1.95
2	Nov-14	1257371	1735178	3230668	1.86
3	Dec-14	1231143	1743863	3357774	1.93

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 = $\sum Ri*Ni$	SAIDI = $\sum Ri*Ni/Nt$ (Monthly SAIDI)
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Oct-14	2000:58	1295550		1743346	4946837:45	2:50
2	Nov-14	2634:47	1257371		1735178	6474390:45	3:43
3	Dec-14	2885:49	1231143		1743863	6875179:44	3:56

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. $\sum Imi*Nmi$	MAIFI= $\sum mi*Nmi/Nt$
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Oct-14	5050	1676344		1743346	13747915	7.89
2	Nov-14	4529	1694137		1735178	12025132	6.93
3	Dec-14	3902	1709180		1743863	10704805	6.14

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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)	C _I =Σ Ni	SAIFI = Σ Ni/N _T (Monthly SAIFI)
1	2	3	4	5	6=5/4
1	Oct-14	524742	813610	1460654	1.80
2	Nov-14	588688	827366	1412553	1.71
3	Dec-14	589864	827918	1498448	1.81

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 = ΣR _i *N _i /N _T (Monthly SAIDI)
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Oct-14	1634:33	524742		813610	1975519:03	2:25
2	Nov-14	2517:13	588688		827366	3280404:57	3:57
3	Dec-14	2446:12	589864		827918	2381208:43	2:52

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	Oct-14	1623	735555		813610	2889161	3.55
2	Nov-14	1409	719850		827366	2751956	3.33
3	Dec-14	1320	720565		827918	2571320	3.11

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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	Oct-14	2110481	2934044	6192272	2.11
2	Nov-14	2116463	2950763	5639268	1.91
3	Dec-14	2085754	2963642	5944662	2.01

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	Oct-14	14612:36	2110481		2934044	9083716:37	3:05
2	Nov-14	15273:04	2116463		2950763	11694007:11	3:57
3	Dec-14	16244:11	2085754		2963642	11381842:46	3:50

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	Oct-14	17441	2765491		2934044	18673601	6.36
2	Nov-14	15945	2777577		2950763	16691816	5.66
3	Dec-14	14101	2783096		2963642	14936506	5.04