

QUARTER :-3rd (Oct-16 to Dec-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 = $\frac{\sum Ni}{Nt}$ (Monthly SAIFI)
1	2	3	4	5	6=5/4
1	Oct-16	357865	437413	1457860	3.33
2	Nov-16	333828	446906	1169806	2.62
3	Dec-16	330861	450167	1228752	2.73

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 = $\frac{\sum Ri * Ni}{Nt}$	SAIDI = $\frac{\sum Ri * Ni}{Nt}$ (Monthly SAIDI)
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Oct-16	14419:32	357865		437413	2769559:32	6:19
2	Nov-16	10027:55	333828		446906	2126207:48	4:45
3	Dec-16	12595:37	330861		450167	2707883:47	6:00

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. $\frac{\sum Imi * Nmi}{Nt}$	MAIFI= $\frac{\sum Imi * Nmi}{Nt}$
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Oct-16	10437	420011		437413	1949471	4.46
2	Nov-16	9884	423907		446906	1953146	4.37
3	Dec-16	9085	428131		450167	1804768	4.01

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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/N _T (Monthly SAIFI)
1	2	3	4	5	6=5/4
1	Oct-16	1410930	1841216	4664064	2.53
2	Nov-16	1203891	1842629	3045357	1.65
3	Dec-16	1315900	1844818	3114932	1.69

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 /N _T (Monthly SAIDI)
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Oct-16	2964:27	1410930		1841216	6714545:21	3:38
2	Nov-16	1900:12	1203891		1842629	4368096:32	2:22
3	Dec-16	2427:34	1315900		1844818	5867500:15	3:10

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	Oct-16	4279	1798176		1841216	11339712	6.16
2	Nov-16	3873	1748400		1842629	10206509	5.54
3	Dec-16	3713	1775032		1844818	9809284	5.32



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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 = Σ Ni/Nt (Monthly SAIFI)
1	2	3	4	5	6=5/4
1	Oct-16	592206	897290	1581659	1.76
2	Nov-16	437885	898231	1126589	1.25
3	Dec-16	630177	898093	1367733	1.52

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 /Nt (Monthly SAIDI)
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Oct-16	2117:02	592206		897290	1692738:40	1:53
2	Nov-16	1446:02	437885		898231	933389:31	1:02
3	Dec-16	1899:29	630177		898093	1925268:26	2:08

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. ΣIm _i *N _{mi}	MAIFI=ΣIm _i *N _{mi} /Nt
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Oct-16	1562	740820		897290	2563760	2.86
2	Nov-16	1450	755417		898231	2496735	2.78
3	Dec-16	1390	783282		898093	2493766	2.78



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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-16	2361001	3175919	7703583	2.43
2	Nov-16	1975604	3187766	5341752	1.68
3	Dec-16	2276938	3193078	5711417	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 = $\sum Ri*Ni$	SAIDI = $\frac{\sum Ri*Ni}{Nt}$ (Monthly SAIDI)
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Oct-16	19501:01	2361001		3175919	11176843:33	3:31
2	Nov-16	13374:10	1975604		3187766	7427693:51	2:19
3	Dec-16	16922:40	2276938		3193078	10500652:28	3:17

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-16	16278	2959007		3175919	15852943	4.99
2	Nov-16	15207	2927724		3187766	14656390	4.60
3	Dec-16	14188	2986445		3193078	14107818	4.42