


Uttar Gujarat Vij Company Ltd.
 YEAR 2016-17 (APRIL-16 TO MARCH-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	Apr-16	296786	431879	1111455	2.57
2	May-16	323746	431363	1371018	3.18
3	Jun-16	397895	463373	1840683	3.97
4	Jul-16	381542	434447	2104233	4.84
5	Aug-16	388119	435674	2031587	4.66
6	Sep-16	369664	436835	1755623	4.02
7	Oct-16	357865	437413	1457860	3.33
8	Nov-16	333828	446906	1169806	2.62
9	Dec-16	330861	450167	1228752	2.73
10	Jan-17	425821	461709	1156022	2.50
11	Feb-17	430546	468052	1089885	2.33
12	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 = ΣR _i *N _i /Nt (Monthly SAIDI)
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Apr-16	9437:42	296786		431879	1976838:57	4:34
2	May-16	12962:06	323746		431363	2596675:48	6:01
3	Jun-16	17613:33	397895		463373	3417057:14	7:22
4	Jul-16	20259:31	381542		434447	3859365:27	8:53
5	Aug-16	17596:50	388119		435674	3429072:07	7:52
6	Sep-16	15179:59	369664		436835	3342425:45	7:39
7	Oct-16	14419:32	357865		437413	2769559:32	6:19
8	Nov-16	10027:55	333828		446906	2126207:48	4:45
9	Dec-16	12595:37	330861		450167	2707883:47	6:00
10	Jan-17	16146:12	335007		461709	3118860:44	6:45
11	Feb-17	10011:13	318559		468052	2201415:01	4:42
12	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} /Nt
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Apr-16	8354	395061		431879	1734299	4.02
2	May-16	9080	388675		431363	1742326	4.04
3	Jun-16	10952	444361		463373	2149118	4.64
4	Jul-16	13560	422290		434447	2576207	5.93
5	Aug-16	13489	420912		435674	2576018	5.91
6	Sep-16	11306	419449		436835	2281130	5.22
7	Oct-16	10437	420011		437413	1949471	4.46
8	Nov-16	9884	423907		446906	1953146	4.37
9	Dec-16	9085	428131		450167	1804768	4.01
10	Jan-17	7782	425821		461709	1570022	3.40
11	Feb-17	7536	430546		468052	1615538	3.45
12	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	Apr-16	1268102	1844973	3300415	1.79
2	May-16	1369741	1847921	4362357	2.36
3	Jun-16	1617422	1845930	6690881	3.62
4	Jul-16	1546596	1858998	6879051	3.70
5	Aug-16	1527308	1835829	6464618	3.52
6	Sep-16	1458420	1836501	4723951	2.57
7	Oct-16	1410930	1841216	4664064	2.53
8	Nov-16	1203891	1842629	3045357	1.65
9	Dec-16	1315900	1844818	3114932	1.69
10	Jan-17	1782161	1833312	3401383	1.86
11	Feb-17	1699577	1853209	3131534	1.69
12	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	Apr-16	2157:39	1268102		1844973	4930771:36	2:40
2	May-16	3044:37	1369741		1847921	6642340:58	3:35
3	Jun-16	4218:36	1617422		1845930	9863820:58	5:20
4	Jul-16	3523:35	1546596		1858998	8607156:25	4:37
5	Aug-16	3463:29	1527308		1835829	7576768:29	4:07
6	Sep-16	2907:02	1458420		1836501	7124766:47	3:52
7	Oct-16	2964:27	1410930		1841216	6714545:21	3:38
8	Nov-16	1900:12	1203891		1842629	4368096:32	2:22
9	Dec-16	2427:34	1315900		1844818	5867500:15	3:10
10	Jan-17	2441:14	1315652		1833312	5683163:31	3:06
11	Feb-17	2458:33	1256578		1853209	5774492:14	3:06
12	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} /Nt
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Apr-16	3569	1752135		1844973	9445602	5.12
2	May-16	3650	1714042		1847921	9835381	5.32
3	Jun-16	4627	1787715		1845930	11981306	6.49
4	Jul-16	5253	1822140		1858998	13260715	7.13
5	Aug-16	5203	1814824		1835829	13045934	7.11
6	Sep-16	4321	1765681		1836501	11444071	6.23
7	Oct-16	4279	1798176		1841216	11339712	6.16
8	Nov-16	3873	1748400		1842629	10206509	5.54
9	Dec-16	3713	1775032		1844818	9809284	5.32
10	Jan-17	3468	1782161		1833312	9181727	5.01
11	Feb-17	3121	1699577		1853209	7778764	4.20
12	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	Ni - 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	Apr-16	651323	874420	1626765	1.86
2	May-16	592720	886550	1755856	1.98
3	Jun-16	720992	866406	2772587	3.20
4	Jul-16	718219	877742	2457687	2.80
5	Aug-16	706577	889217	2564724	2.88
6	Sep-16	680630	892498	1894002	2.12
7	Oct-16	592206	897290	1581659	1.76
8	Nov-16	437885	898231	1126589	1.25
9	Dec-16	630177	898093	1367733	1.52
10	Jan-17	795782	905553	1936532	2.14
11	Feb-17	699588	906354	1475022	1.63
12	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	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	NT - 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	Apr-16	2142:33	651323		874420	2805716:43	3:12
2	May-16	2325:33	592720		886550	1846734:19	2:04
3	Jun-16	2832:27	720992		866406	3179875:54	3:40
4	Jul-16	2826:01	718219		877742	3027581:44	3:26
5	Aug-16	2472:04	706577		889217	2498332:32	2:48
6	Sep-16	2459:28	680630		892498	2796645:37	3:08
7	Oct-16	2117:02	592206		897290	1692738:40	1:53
8	Nov-16	1446:02	437885		898231	933389:31	1:02
9	Dec-16	1899:29	630177		898093	1925268:26	2:08
10	Jan-17	2594:11	637074		905553	2851503:46	3:08
11	Feb-17	2325:22	556397		906354	2874535:21	3:10
12	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	IMI = Number of Momentary interruptions for the month (in numbers)	Nmi = Total no of customers for each momentary interruptions (in numbers)	IMI =Nmi Number of customer Momentary interruptions (in numbers)	Nt - 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	Apr-16	1410	744332		874420	2634103	3.01
2	May-16	1478	784536		886550	2848506	3.21
3	Jun-16	1844	763127		866406	3613196	4.17
4	Jul-16	1990	718219		877742	3569488	4.07
5	Aug-16	1793	744318		889217	2923006	3.29
6	Sep-16	1573	752140		892498	2229781	2.50
7	Oct-16	1562	740820		897290	2563760	2.86
8	Nov-16	1450	755417		898231	2496735	2.78
9	Dec-16	1390	783282		898093	2493766	2.78
10	Jan-17	1596	795782		905553	3392225	3.75
11	Feb-17	1270	699588		906354	2225226	2.46
12	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 = Σ Ni/Nt (Monthly SAIFI)
1	2	3	4	5	6=5/4
1	Apr-16	2216211	3151272	6038635	1.92
2	May-16	2286207	3165834	7489231	2.37
3	Jun-16	2736309	3175709	11304151	3.56
4	Jul-16	2646357	3171187	11440971	3.61
5	Aug-16	2622004	3160720	11060929	3.50
6	Sep-16	2508714	3165834	8373576	2.64
7	Oct-16	2361001	3175919	7703583	2.43
8	Nov-16	1975604	3187766	5341752	1.68
9	Dec-16	2276938	3193078	5711417	1.79
10	Jan-17	3003764	3200574	6493937	2.03
11	Feb-17	2867217	3227615	5696441	1.76
12	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 (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-16	13737:55	2216211		3151272	9713327:17	3:04
2	May-16	18332:17	2286207		3165834	11085751:06	3:30
3	Jun-16	24664:36	2736309		3175709	16460754:06	5:11
4	Jul-16	26609:07	2646357		3171187	15494103:37	4:53
5	Aug-16	23532:23	2622004		3160720	13504173:08	4:16
6	Sep-16	20546:30	2508714		3165834	13263838:09	4:11
7	Oct-16	19501:01	2361001		3175919	11176843:33	3:31
8	Nov-16	13374:10	1975604		3187766	7427693:51	2:19
9	Dec-16	16922:40	2276938		3193078	10500652:28	3:17
10	Jan-17	21181:37	3003764		3200574	11653528:01	3:38
11	Feb-17	14795:08	2867217		3227615	10850442:36	3:21
12	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. ΣIM _i *N _{mi}	MAIFI=ΣIM _i *N _{mi} /Nt
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Apr-16	13333	2891528		3151272	13814004	4.38
2	May-16	14208	2887253		3165834	14426213	4.56
3	Jun-16	17423	2995203		3175709	17743620	5.59
4	Jul-16	20803	2244430		3171187	19406409.6	6.12
5	Aug-16	20485	2980054		3160720	18544958.4	5.87
6	Sep-16	17200	2937270		3165834	15954981.8	5.04
7	Oct-16	16278	2959007		3175919	15852943	4.99
8	Nov-16	15207	2927724		3187766	14656390	4.60
9	Dec-16	14188	2986445		3193078	14107818	4.42
10	Jan-17	12846	3003764		3200574	14143974	4.42
11	Feb-17	11927	2829711		3227615	11619528	3.60
12	Mar-17	13593	2967662		3256424	13408098	4.12