

Uttar Gujarat Vij Company Ltd

YEAR 2014-15 (APRIL-14 TO MARCH-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 = Σ Ni/Nt (Monthly SAIFI)
1	2	3	4	5	6=5/4
1	Apr-14	262368	370549	1100331	2.97
2	May-14	289204	375564	1218774	3.25
3	Jun-14	289713	378577	1367216	3.61
4	Jul-14	312897	371511	1978878	5.33
5	Aug-14	321920	373386	1874960	5.02
6	Sep-14	323918	373737	1947571	5.21
7	Oct-14	290189	377088	1328228	3.52
8	Nov-14	270404	388219	996047	2.57
9	Dec-14	264747	391861	1088440	2.78
10	Jan-15	347380	392218	1260159	3.21
11	Feb-15	343081	395504	998227	2.52
12	Mar-15	358671	398172	1114784	2.80

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-14	11304:10	262368		370549	2162509:08	05:50
2	May-14	18437:20	289204		375564	2785747:29	07:25
3	Jun-14	15306:23	289713		378577	2764693:20	07:18
4	Jul-14	22555:54	312897		371511	4155543:33	11:11
5	Aug-14	18535:51	321920		373386	3160444:25	08:27
6	Sep-14	20120:29	323918		373737	3563352:13	9:32
7	Oct-14	10977:05	290189		377088	2161359:48	5:43
8	Nov-14	10121:04	270404		388219	1939211:29	4:59
9	Dec-14	10912:09	264747		391861	2125454:19	5:25
10	Jan-15	11480:26	288931		392218	2417010:21	06:09
11	Feb-15	8386:35	265343		395504	1810279:06	04:34
12	Mar-15	10506:42	284387		398172	1881425:17	04:43

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-14	8737	336815		370549	1569402	4.24
2	May-14	10940	349726		375564	1897138	5.05
3	Jun-14	10841	351364		378577	1915435	5.06
4	Jul-14	13588	340507		371511	2208176	5.94
5	Aug-14	12695	352471		373386	2298480	6.16
6	Sep-14	13809	356206		373737	2450673	6.56
7	Oct-14	10768	353592		377088	2036525	5.40
8	Nov-14	10007	363590		388219	1914728	4.93
9	Dec-14	8879	353351		391861	1660381	4.24
10	Jan-15	8336	347380		392218	1494446	3.81
11	Feb-15	7349	343081		395504	1359960	3.44
12	Mar-15	9436	358671		398172	1679207	4.22

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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-14	1272619	1717968	3407397	1.98
2	May-14	1447495	1714096	5598926	3.27
3	Jun-14	1481214	1722917	5934269	3.44
4	Jul-14	1564999	1735680	7873325	4.54
5	Aug-14	1414110	1733826	5477332	3.16
6	Sep-14	1493251	1741507	7239803	4.16
7	Oct-14	1295550	1743346	3403390	1.95
8	Nov-14	1257371	1735178	3230668	1.86
9	Dec-14	1231143	1743863	3357774	1.93
10	Jan-15	1715363	1755516	4259102	2.43
11	Feb-15	1713390	1759494	3123751	1.78
12	Mar-15	1647909	1782783	3962962	2.22

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-14	2234:48	1272619		1717968	4505391:50	2:37
2	May-14	3776:20	1447495		1714096	8905255:35	5:11
3	Jun-14	3634:35	1481214		1722917	8778631:15	5:05
4	Jul-14	4197:46	1564999		1735680	10211118:42	05:52
5	Aug-14	2632:17	1414110		1733826	6195808:12	03:16
6	Sep-14	3745:35	1493251		1741507	8993959:34	05:09
7	Oct-14	2000:58	1295550		1743346	4946837:45	2:50
8	Nov-14	2634:47	1257371		1735178	6474390:45	3:43
9	Dec-14	2885:49	1231143		1743863	6875179:44	3:56
10	Jan-15	2599:55	1416199		1755516	6297018:23	03:35
11	Feb-15	1973:21	1416199		1759494	4821229:24	02:44
12	Mar-15	2217:13	1233240		1782783	5239086:19	02:56

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. ΣIm _i *N _{mi}	MAIFI=ΣIm _i *N _{mi} /Nt
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Apr-14	3947	1672789		1717968	10652042	6.20
2	May-14	4937	1663861		1714096	12977068	7.57
3	Jun-14	4781	1674102		1722917	12782585	7.42
4	Jul-14	5546	1697883		1735680	14506947	8.36
5	Aug-14	5392	1686742		1733826	14668567	8.46
6	Sep-14	5526	1684406		1741507	14373764	8.25
7	Oct-14	5050	1676344		1743346	13747915	7.89
8	Nov-14	4529	1694137		1735178	12025132	6.93
9	Dec-14	3902	1709180		1743863	10704805	6.14
10	Jan-15	4325	1715363		1755516	11928739	6.80
11	Feb-15	3389	1713390		1759494	9065528	5.15
12	Mar-15	4375	1647909		1782783	11655906	6.54

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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-14	611159	846000	1955812.944	2.31
2	May-14	670629	805286	2399776	2.98
3	Jun-14	677640	816937	2447289	3.00
4	Jul-14	713428	826296	2984670	3.61
5	Aug-14	668421	864658	2148803	2.49
6	Sep-14	701649	815720	2529652	3.10
7	Oct-14	524742	813610	1460654	1.80
8	Nov-14	588688	827366	1412553	1.71
9	Dec-14	589864	827918	1498448	1.81
10	Jan-15	768572	829200	2127462	2.57
11	Feb-15	771379	839390	1357044	1.62
12	Mar-15	749795	845587	1792894	2.12

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-14	2538:38	611159		846000	2306232:12	2:43
2	May-14	3137:51	670629		805286	2982278:10	3:42
3	Jun-14	3518:24	677640		816937	3713569:44	4:32
4	Jul-14	3027:57	713428		826296	3151360:08	03:48
5	Aug-14	1869:43	668421		864658	2183808:06	02:31
6	Sep-14	2331:25	701649		815720	2702060:29	03:18
7	Oct-14	1634:33	524742		813610	1975519:03	2:25
8	Nov-14	2517:13	588688		827366	3280404:57	3:57
9	Dec-14	2446:12	589864		827918	2381208:43	2:52
10	Jan-15	2183:38	639413		829200	2811426:53	03:23
11	Feb-15	1946:27	635781		839390	1987809:42	02:22
12	Mar-15	1790:35	590900		845587	2109039:51	02:29

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-14	1631	733611		846000	2944753	3.48
2	May-14	1776	723675		805286	3204481	3.98
3	Jun-14	1835	747697		816937	3422662	4.19
4	Jul-14	2115	784603		826296	3941270	4.77
5	Aug-14	1875	776773		864658	3533174	4.09
6	Sep-14	1781	716723		815720	3407647	4.18
7	Oct-14	1623	735555		813610	2889161	3.55
8	Nov-14	1409	719850		827366	2751956	3.33
9	Dec-14	1320	720565		827918	2571320	3.11
10	Jan-15	1742	768572		829200	4129691	4.98
11	Feb-15	1233	771379		839390	2390758	2.85
12	Mar-15	1383	749795		845587	2832509	3.35

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YEAR 2014-15 (APRIL-14 TO MARCH-15)

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-14	2146146	2934517	6463541	2.20
2	May-14	2407328	2894946	9217476	3.18
3	Jun-14	2448567	2918431	9748774	3.34
4	Jul-14	2591324	2933487	12836873	4.38
5	Aug-14	2404451	2971870	9501095	3.20
6	Sep-14	2518818	2930964	11717026	4.00
7	Oct-14	2110481	2934044	6192272	2.11
8	Nov-14	2116463	2950763	5639268	1.91
9	Dec-14	2085754	2963642	5944662	2.01
10	Jan-15	2831315	2976934	7646723	2.57
11	Feb-15	2880273	2994388	5479022	1.83
12	Mar-15	2756375	3026542	6870640	2.27

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 = 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-14	16077:38	2146146		2934517	8974133:11	3:03
2	May-14	25351:31	2407328		2894946	14673281:15	5:04
3	Jun-14	22459:22	2448567		2918431	15256894:19	5:13
4	Jul-14	29822:00	2591324		2933487	17518022:23	05:58
5	Aug-14	16800:41	2404451		2971870	11515403:58	03:52
6	Sep-14	28275:21	2518818		2930964	15259372:17	05:12
7	Oct-14	14612:36	2110481		2934044	9083716:37	3:05
8	Nov-14	15273:04	2116463		2950763	11694007:11	3:57
9	Dec-14	16244:11	2085754		2963642	11381842:46	3:50
10	Jan-15	16263:59	2831315		2976934	11525455:37	03:52
11	Feb-15	12306:24	2880273		2994388	8619318:12	02:52
12	Mar-15	14514:30	2756375		3026542	9229551:27	03:02

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-14	14315	2743215		2934517	15166197	5.17
2	May-14	17653	2737262		2894946	18078687	6.24
3	Jun-14	17457	2773163		2918431	18120682	6.21
4	Jul-14	21249	2822993		2933487	20656393	7.04
5	Aug-14	19962	2815986		2971870	20500221	6.90
6	Sep-14	21116	2757335		2930964	20232084	6.90
7	Oct-14	17441	2765491		2934044	18673601	6.36
8	Nov-14	15945	2777577		2950763	16691816	5.66
9	Dec-14	14101	2783096		2963642	14936506	5.04
10	Jan-15	14403	2831315		2976934	17552876	5.90
11	Feb-15	11971	2827850		2994388	12816246	4.28
12	Mar-15	15194	2756375		3026542	16167622	5.34