

**Uttar Gujarat Vij Company Ltd ,Mehsana**  
**QUARTER :- 4th (Jan-15 to Mar-15)**  
**YEAR :-2014-15**

**SoP 011 - A : System Average Interruption Frequency Index (SAIFI) for AG. Dominant Category**

Sr. No	Month	N <sub>i</sub> - Number of Customers for each sustained interruptions (in numbers)	N <sub>T</sub> - 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	Jan-15	347380	392218	1260159	3.21
2	Feb-15	343081	395504	998227	2.52
3	Mar-15	358671	398172	1114784	2.80

**SoP 011 - B : System Average Interruption Duration Index (SAIDI) for AG. Dominant Category**

Sr. No	Month	R <sub>i</sub> = Restoration Time for each sustained interruption event (in hours)	N <sub>i</sub> - Number of interrupted Customers for each sustained interruption event (in numbers)	R <sub>i</sub> * N <sub>i</sub> - Total customer interruption Duration	N <sub>T</sub> - Total No of customers served (in Numbers)	Customer Intt. Duration CMI = ΣR <sub>i</sub> *N <sub>i</sub>	SAIDI = ΣR <sub>i</sub> *N <sub>i</sub> /Nt (Monthly SAIDI)
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Jan-15	11480:26	288931		392218	2417010:21	6:09
2	Feb-15	8386:35	265343		395504	1810279:06	4:34
3	Mar-15	10506:42	284387		398172	1881425:17	4:43

**SoP 011 - C : Momentary Average Interruption Frequency Index (MAIFI) for AG. Dominant Category**

Sr. No	Month	IM <sub>i</sub> = Number of Momentary interruptions for the month (in numbers)	N <sub>mi</sub> = Total no of customers for each momentary interruptions (in numbers)	Im <sub>i</sub> =N <sub>mi</sub> Number of customer Momentary interruptions (in numbers)	N <sub>t</sub> - Total no of customers served (in numbers)	Customer Intt. ΣIm <sub>i</sub> *N <sub>mi</sub>	MAIFI=ΣIm <sub>i</sub> *N <sub>mi</sub> /Nt
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Jan-15	8336	347380		392218	1494446	3.81
2	Feb-15	7349	343081		395504	1359960	3.44
3	Mar-15	9436	358671		398172	1679207	4.22

**Uttar Gujarat Vij Company Ltd ,Mehsana**  
**QUARTER :- 4th (Jan-15 to Mar-15)**  
**YEAR :-2014-15**

**SoP 011 - A : System Average Interruption Frequency Index (SAIFI) for JGY category**

Sr. No	Month	N <sub>i</sub> - Number of Customers for each sustained interruptions (in numbers)	N <sub>T</sub> - 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	Jan-15	1715363	1755516	4259102	2.43
2	Feb-15	1713390	1759494	3123751	1.78
3	Mar-15	1647909	1782783	3962962	2.22

**SoP 011 - B : System Average Interruption Duration Index (SAIDI) for JGY category**

Sr. No	Month	R <sub>i</sub> = Restoration Time for each sustained interruption event (in hours)	N <sub>i</sub> - Number of interrupted Customers for each sustained interruption event (in numbers)	R <sub>i</sub> * N <sub>i</sub> - Total customer interruption Duration	N <sub>T</sub> - Total No of customers served (in Numbers)	Customer Intt. Duration CMI = ΣR <sub>i</sub> *N <sub>i</sub>	SAIDI = ΣR <sub>i</sub> *N <sub>i</sub> /Nt (Monthly SAIDI)
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Jan-15	2599:55	1416199		1755516	6297018:23	03:35
2	Feb-15	1973:21	1416199		1759494	4821229:24	02:44
3	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 <sub>i</sub> = Number of Momentary interruptions for the month (in numbers)	N <sub>mi</sub> = Total no of customers for each momentary interruptions (in numbers)	Im <sub>i</sub> =N <sub>mi</sub> Number of customer Momentary interruptions (in numbers)	N <sub>t</sub> - Total no of customers served (in numbers)	Customer Intt. ΣIm <sub>i</sub> *N <sub>mi</sub>	MAIFI=ΣIm <sub>i</sub> *N <sub>mi</sub> /N <sub>t</sub>
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Jan-15	4325	1715363		1755516	11928739	6.80
2	Feb-15	3389	1713390		1759494	9065528	5.15
3	Mar-15	4375	1647909		1782783	11655906	6.54

**Uttar Gujarat Vij Company Ltd ,Mehsana**  
**QUARTER :- 4th (Jan-15 to Mar-15)**  
**YEAR :-2014-15**

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

Sr. No	Month	N <sub>i</sub> - Number of Customers for each sustained interruptions (in numbers)	N <sub>T</sub> - Total No of customers served (in Numbers)	CI=Σ Ni	SAIFI = Σ Ni/N <sub>t</sub> (Monthly SAIFI)
1	2	3	4	5	6=5/4
1	Jan-15	768572	829200	2127462	2.57
2	Feb-15	771379	839390	1357044	1.62
3	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	R <sub>i</sub> = Restoration Time for each sustained interruption event (in hours)	N <sub>i</sub> - Number of interrupted Customers for each sustained interruption event (in numbers)	R <sub>i</sub> * N <sub>i</sub> - Total customer interruption Duration	N <sub>T</sub> - Total No of customers served (in Numbers)	Customer Intt. Duration CMI = ΣR <sub>i</sub> *N <sub>i</sub>	SAIDI = ΣR <sub>i</sub> *N <sub>i</sub> /N <sub>t</sub> (Monthly SAIDI)
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Jan-15	2183:38	639413		829200	2811426:53	03:23
2	Feb-15	1946:27	635781		839390	1987809:42	02:22
3	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	IM <sub>i</sub> = Number of Momentary interruptions for the month (in numbers)	N <sub>mi</sub> = Total no of customers for each momentary interruptions (in numbers)	Im <sub>i</sub> =N <sub>mi</sub> Number of customer Momentary interruptions (in numbers)	N <sub>t</sub> - Total no of customers served (in numbers)	Customer Intt. ΣIm <sub>i</sub> *N <sub>mi</sub>	MAIFI=ΣIm <sub>i</sub> * N <sub>mi</sub> /N <sub>t</sub>
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Jan-15	1742	768572		829200	4129691	4.98
2	Feb-15	1233	771379		839390	2390758	2.85
3	Mar-15	1383	749795		845587	2832509	3.35

**Uttar Gujarat Vij Company Ltd ,Mehsana**  
**QUARTER :- 4th (Jan-15 to Mar-15)**  
**YEAR :-2014-15**

**SoP 011 - A : System Average Interruption Frequency Index (SAIFI) for UGVCL as a whole**

Sr. No	Month	N <sub>i</sub> - Number of Customers for each sustained interruptions (in numbers)	N <sub>T</sub> - 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	Jan-15	2831315	2976934	7646723	2.57
2	Feb-15	2880273	2994388	5479022	1.83
3	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 <sub>i</sub> = Restoration Time for each sustained interruption event (in hours)	N <sub>i</sub> - Number of interrupted Customers for each sustained interruption event (in numbers)	R <sub>i</sub> * N <sub>i</sub> - Total customer interruption Duration	N <sub>T</sub> - Total No of customers served (in Numbers)	Customer Intt. Duration CMI = ΣR <sub>i</sub> *N <sub>i</sub>	SAIDI = ΣR <sub>i</sub> *N <sub>i</sub> /Nt (Monthly SAIDI)
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Jan-15	16263:59	2831315		2976934	11525455:37	03:52
2	Feb-15	12306:24	2880273		2994388	8619318:12	02:52
3	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 <sub>i</sub> = Number of Momentary interruptions for the month (in numbers)	N <sub>mi</sub> = Total no of customers for each momentary interruptions (in numbers)	Im <sub>i</sub> =N <sub>mi</sub> Number of customer Momentary interruptions (in numbers)	N <sub>t</sub> - Total no of customers served (in numbers)	Customer Intt. ΣIm <sub>i</sub> *N <sub>mi</sub>	MAIFI=ΣIm <sub>i</sub> *N <sub>mi</sub> /Nt
1	2	3	4	5 = 3 * 4	6	7	8=7/6
1	Jan-15	14403	2831315		2976934	17552876	5.90
2	Feb-15	11971	2827850		2994388	12816246	4.28
3	Mar-15	15194	2756375		3026542	16167622	5.34