



# Uttar Gujarat Vij Company Ltd.

QUARTER :-1st April-16 to June-16  
YEAR :-2016-17

**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	Apr-16	296786	431879	1111455	2.57
2	May-16	323746	431363	1371018	3.18
3	Jun-16	397895	463373	1840683	3.97

**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	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

**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	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



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### 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	Apr-16	1268102	1844973	3300415	1.79
2	May-16	1369741	1847921	4362357	2.36
3	Jun-16	1617422	1845930	6690881	3.62

### 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	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

### 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> /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

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**QUARTER :-1st April-16 to June-16**  
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**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	Apr-16	651323	874420	1626765	1.86
2	May-16	592720	886550	1755856	1.98
3	Jun-16	720992	866406	2772587	3.20

**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	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

**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	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



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**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 = $\frac{\sum Ni}{Nt}$ (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

**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 = $\frac{\sum Ri \cdot Ni}{Nt}$	SAIDI = $\frac{\sum Ri \cdot Ni}{Nt}$ (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

**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. $\frac{\sum Im_i \cdot N_{mi}}{Nt}$	MAIFI= $\frac{\sum Im_i \cdot N_{mi}}{Nt}$
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