

# Uttar Gujarat Vij Company Ltd

Quarter :- Jan-13 to March-13

YEAR :- 2012-13

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

Sr. No	Month	Ni - Number of Customers for each sustained interruptions (in numbers)	N <sub>T</sub> - Total No of customers served (in Numbers)	SAIFI = Ni/Nt (Monthly SAIFI)
1	2	3	4	5= 3 / 4
1	Jan-13	492137	366794	1.34
2	Feb-13	202345	368458	0.55
3	Mar-13	167961	369221	0.45

## SoP 011 - B : System Average Interruption Duration Index (SAIDI) for AG. Dominant 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	N <sub>T</sub> - Total No of customers served (in Numbers)	SAIDI = Ri*Ni/Nt (Monthly SAIDI)
1	2	3	4	5 = 3 * 4	6	7= 5 / 6
1	Jan-13	1335:43:00	395	527619:30:00	366794	1:26:18
2	Feb-13	1835:46:00	202	370914:05:00	368458	1:00:24
3	Mar-13	1307:00:10	205	267489:15:05	369221	0:43:28

## 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 Mementary interruptions (in numbers)	N <sub>t</sub> - Total no of customers served (in numbers)	MAIFI= Imi*Nmi/ Nt
1	2	3	4	5 = 3 * 4	6	7= 5 / 6
1	Jan-13	7412	788	5839417	366794	15.92
2	Feb-13	7363	187	1380167	368458	3.75
3	Mar-13	7711	174	1338108	369221	3.62

**Uttar Gujarat Vij Company Ltd**  
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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)	SAIFI = Ni/Nt (Monthly SAIFI)
1	2	3	4	5= 3 / 4
1	Jan-13	690767	1665235	0.41
2	Feb-13	1017814	1667422	0.61
3	Mar-13	639349	1668144	0.38

**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)	SAIDI = Ri*Ni/Nt (Monthly SAIDI)
1	2	3	4	5 = 3 * 4	6	7= 5 / 6
1	Jan-13	232:31:25	3129	712107:07:45	1665235	0:25:39
2	Feb-13	423:15:40	3426	1289885:44:00	1667422	0:46:25
3	Mar-13	205:51:10	2911	717055:18:00	1668144	0:25:47

**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 Mementary interruptions (in numbers)	N <sub>t</sub> - Total no of customers served (in numbers)	MAIFI= Imi*Nmi/ Nt
1	2	3	4	5 = 3 * 4	6	7= 5 / 6
1	Jan-13	3780	2734	10532096	1665235	6.32
2	Feb-13	3611	2749	9994886	1667422	5.99
3	Mar-13	3565	2646	9631916	1668144	5.77

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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 <sub>T</sub> - Total No of customers served (in Numbers)	SAIFI = Ni/Nt (Monthly SAIFI)
1	2	3	4	5= 3 / 4
1	Jan-13	185147	569501	0.33
2	Feb-13	369613	799948	0.46
3	Mar-13	213697	811179	0.26

## 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	N <sub>T</sub> - Total No of customers served (in Numbers)	SAIDI = Ri*Ni/Nt (Monthly SAIDI)
1	2	3	4	5 = 3 * 4	6	7= 5 / 6
1	Jan-13	211:46:25	1724	134626:10:20	569501	0:14:11
2	Feb-13	221:02:15	1597	353018:58:40	799948	0:26:29
3	Mar-13	94:37:15	1663	155735:40:40	811179	0:11:31

## 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 Mementary interruptions (in numbers)	N <sub>t</sub> - Total no of customers served (in numbers)	MAIFI= Imi*Nmi/ Nt
1	2	3	4	5 = 3 * 4	6	7= 5 / 6
1	Jan-13	1577	1871	2950719	569501	5.18
2	Feb-13	1341	2482	3328894	799948	4.16
3	Mar-13	1327	2166	2874495	811179	3.54

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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)	SAIFI = Ni/Nt (Monthly SAIFI)
1	2	3	4	5= 3 / 4
1	Jan-13	1368051	2832038	0.48
2	Feb-13	1589772	2835828	0.56
3	Mar-13	1021007	2847822	0.36

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)	SAIDI = Ri*Ni/Nt (Monthly SAIDI)
1	2	3	4	5 = 3 * 4	6	7= 5 / 6
1	Jan-13	1780:00:50	772	1374352:48:05	2832038	0:29:07
2	Feb-13	2480:03:55	812	2013818:47:40	2835828	0:42:36
3	Mar-13	1607:28:35	709	1140280:13:45	2847822	0:24:01

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 Mementary interruptions (in numbers)	N <sub>t</sub> - Total no of customers served (in numbers)	MAIFI= Imi*Nmi/ Nt
1	2	3	4	5 = 3 * 4	6	7= 5 / 6
1	Jan-13	12769	1513	19322232	2832038	6.82
2	Feb-13	12315	1194	14703947	2835828	5.19
3	Mar-13	12603	1099	13844519	2847822	4.86