

**QUARTER :-1st (April-15 to June-15)**  
**YEAR :-2015-16**

**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-15 | 325777   | 414880   | 1634288 | 3.94                            |
| 2      | May-15 | 308408   | 416151   | 1187638 | 2.85                            |
| 3      | Jun-15 | 349222   | 417514   | 1991885 | 4.77                            |

**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-15 | 15192:05   | 325777  |  | 414880   | 3084177:44  | 7:26  |
| 2      | May-15 | 11154:06   | 308408  |  | 416151   | 2158151:09  | 5:11  |
| 3      | Jun-15 | 20268:59   | 349222  |  | 417514   | 3817028:46  | 9:08  |

**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-15 | 10717  | 383167  |  | 414880   | 1892153  | 4.56  |
| 2      | May-15 | 9410   | 374179  |  | 416151   | 1689008  | 4.06  |
| 3      | Jun-15 | 11704  | 381695  |  | 417514   | 2149402  | 5.15  |

Note:- Reliable Indices increased in April-2015 and June-2015 due to Cyclone effect on Dt. 13.4.15 to 17.4.15 and 4.6.15 to 10.6.15; 13.6.15 to 20.6.15; 23.6.15 to 27.6.15 respectively.

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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-15 | 1490940  | 1775680  | 5266233 | 2.97                            |
| 2      | May-15 | 1368865  | 1783440  | 3922127 | 2.20                            |
| 3      | Jun-15 | 1578848  | 1816471  | 7910221 | 4.35                            |

**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-15 | 3251:53  | 1490940   |  | 1775680  | 7498242:31  | 4:13  |
| 2      | May-15 | 2642:31  | 1368865   |  | 1783440  | 6622263:25  | 3:42  |
| 3      | Jun-15 | 4633:46  | 1578848   |  | 1816471  | 10868341:11   | 5:59  |

**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-15 | 4485   | 1686977   |  | 1775680  | 11581319   | 6.52  |
| 2      | May-15 | 3610   | 1693532   |  | 1783440  | 9693054  | 5.44  |
| 3      | Jun-15 | 4971   | 1750083   |  | 1816471  | 12837719   | 7.07  |

Note:- Reliable Indices increased in April-2015 and June-2015 due to Cyclone effect on Dt. 13.4.15 to 17.4.15 and 4.6.15 to 10.6.15; 13.6.15 to 20.6.15; 23.6.15 to 27.6.15 respectively.



# Uttar Gujarat Vij Company Ltd.

QUARTER :-1st (April-15 to June-15)

YEAR :-2015-16

**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 = $\frac{\sum Ni}{Nt}$ (Monthly SAIFI) |
|--------|--------|--|--|---------|--|
| 1      | 2      | 3  | 4  | 5       | 6=5/4  |
| 1      | Apr-15 | 611134   | 846696   | 2080277 | 2.46   |
| 2      | May-15 | 644181   | 846283   | 1730913 | 2.05   |
| 3      | Jun-15 | 701967   | 857306   | 2772142 | 3.23   |

**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 = $\frac{\sum Ri*Ni}{Nt}$ | SAIDI = $\frac{\sum Ri*Ni}{Nt}$ (Monthly SAIDI) |
|--------|--------|--|---|--|--|---|---|
| 1      | 2      | 3  | 4   | 5 = 3 * 4  | 6  | 7   | 8=7/6   |
| 1      | Apr-15 | 1877:00  | 611134  |  | 846696   | 2256980:58  | 2:39  |
| 2      | May-15 | 3713:42  | 644181  |  | 846283   | 3241687:00  | 3:49  |
| 3      | Jun-15 | 3629:03  | 701967  |  | 857306   | 3089324:45  | 3:36  |

**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. $\frac{\sum Imi*Nmi}{Nt}$ | MAIFI = $\frac{\sum Imi*Nmi}{Nt}$ |
|--------|--------|--|---|---|--|--|-----------------------------------|
| 1      | 2      | 3  | 4   | 5 = 3 * 4   | 6  | 7  | 8=7/6                             |
| 1      | Apr-15 | 1583   | 753275  |   | 846696   | 3285373                                  | 3.88                              |
| 2      | May-15 | 1425   | 723653  |   | 846283   | 2480166                                  | 2.93                              |
| 3      | Jun-15 | 1922   | 791092  |   | 857306   | 3715188                                  | 4.33                              |

Note:- Reliable Indices increased in April-2015 and June-2015 due to Cyclone effect on Dt. 13.4.15 to 17.4.15 and 4.6.15 to 10.6.15; 13.6.15 to 20.6.15; 23.6.15 to 27.6.15 respectively.

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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 = $\frac{\sum Ni}{N_t}$ (Monthly SAIFI) |
|--------|--------|--|--|----------|---|
| 1      | 2      | 3  | 4  | 5        | 6=5/4   |
| 1      | Apr-15 | 2427851  | 3037256  | 8980798  | 2.96  |
| 2      | May-15 | 2321454  | 3045874  | 6840678  | 2.25  |
| 3      | Jun-15 | 2630037  | 3091291  | 12674248 | 4.10  |

**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 = $\frac{\sum Ri * Ni}{N_t}$ | SAIDI = $\frac{\sum Ri * Ni}{N_t}$ (Monthly SAIDI) |
|--------|--------|--|---|--|--|--|--|
| 1      | 2      | 3  | 4   | 5 = 3 * 4  | 6  | 7  | 8=7/6  |
| 1      | Apr-15 | 20320:58   | 2427851   |  | 3037256  | 12839401:13  | 4:13   |
| 2      | May-15 | 17510:19   | 2321454   |  | 3045874  | 12022101:34  | 3:56   |
| 3      | Jun-15 | 28531:48   | 2630037   |  | 3091291  | 17774694:43  | 5:45   |

**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. $\frac{\sum Im_i * N_{mi}}{N_t}$ | MAIFI = $\frac{\sum Im_i * N_{mi}}{N_t}$ |
|--------|--------|--|---|---|--|---|--|
| 1      | 2      | 3  | 4   | 5 = 3 * 4   | 6  | 7   | 8=7/6                                    |
| 1      | Apr-15 | 16785  | 2823419   |   | 3037256  | 16758845  | 5.52                                     |
| 2      | May-15 | 14445  | 2791364   |   | 3045874  | 13862228  | 4.55                                     |
| 3      | Jun-15 | 18597  | 2922870   |   | 3091291  | 18702309  | 6.05                                     |

Note:- Reliable Indices increased in April-2015 and June-2015 due to Cyclone effect on Dt. 13.4.15 to 17.4.15 and 4.6.15 to 10.6.15; 13.6.15 to 20.6.15; 23.6.15 to 27.6.15 respectively.