

B. E. S. & T. UNDERTAKING

Annexure - VII

**Performance Report regarding Reliability Indices
Format for Quarterly Returns to be submitted to the Commission by the Distribution Licensee**

(i) System Average Interruption Duration Index (SAIDI)

October 21 to December 21

| Sr. No. | Month | Ni = No. of Consumers who experienced a sustained interruption on i th Feeder | Ri = Restoration Time for each interruption event on i th Feeder | Nt = Total No. of consumers of the Distribution Licensee area | Sum (Ri X Ni) for all Feeders excluding agri. Feeders | SAIDI = (6) / (5) |
|--------------|----------|--|---|---|---|-------------------|
| <u>(1)</u> | <u>2</u> | <u>3</u> | <u>4</u> | <u>5</u> | <u>6</u> | <u>7</u> |
| 1 | Oct-21 | 191525 | 27.85 | 1043163 | 5333721 | 5.11 |
| 2 | Nov-21 | 202157 | 24.90 | 1043163 | 5033506 | 4.83 |
| 3 | Dec-21 | 237799 | 26.36 | 1043163 | 6268283 | 6.01 |
| Total | | | | | | 15.95 |

(ii) System Average Interruption Frequency Index (SAIFI)

| Sr. No. | Month | Ni = No. of Consumers who experienced a sustained interruption on i th Feeder | Sum of Consumers of i th feeder which had experienced interruptions = Sum Ni | Nt = Total No. of consumers of the Distribution Licensee area | SAIFI = (4) / (5) |
|--------------|----------|--|---|---|-------------------|
| <u>(1)</u> | <u>2</u> | <u>3</u> | <u>4</u> | <u>5</u> | <u>6</u> |
| 1 | Oct-21 | 191525 | 191525 | 1043163 | 0.18 |
| 2 | Nov-21 | 202157 | 202157 | 1043163 | 0.19 |
| 3 | Dec-21 | 237799 | 237799 | 1043163 | 0.23 |
| Total | | | | | 0.61 |

(iii) Consumer Average Interruption Duration Index (CAIDI)

| Sr. No. | Month | SAIDI | SAIFI | SAIDI / SAIFI |
|--------------|----------|--------------|-------------|---------------|
| <u>(1)</u> | <u>2</u> | <u>3</u> | <u>4</u> | <u>5</u> |
| 1 | Oct-21 | 5.11 | 0.18 | 27.85 |
| 2 | Nov-21 | 4.83 | 0.19 | 24.90 |
| 3 | Dec-21 | 6.01 | 0.23 | 26.36 |
| Total | | 15.95 | 0.61 | 26.15 |

(iv) Customer Average Interruption Duration Index (CAIDI) For HT consumer

| Sr. no. | Month | Ni=Number of Consumer who experienced a sustained interruption | Ri=Restoration time for each interruption event of HT Consumers | Sum, (Ri*Ni) for all HT Consumers | CAIDI=(5)/(3) |
|--------------|------------|--|---|-----------------------------------|---------------|
| <u>(1)</u> | <u>(2)</u> | <u>(3)</u> | <u>(4)</u> | <u>(5)</u> | <u>(6)</u> |
| 1 | Oct-21 | 37 | 27.32 | 1011 | 27.32 |
| 2 | Nov-21 | 32 | 35.13 | 1124 | 35.13 |
| 3 | Dec-21 | 39 | 26.13 | 1019 | 26.13 |
| Total | | 108 | | 3154 | 29.20 |