# B. E. S. & T. UNDERTAKING

**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 2023 to December 2023**

| Sr. No. | Month | $N_i$ = No. of Consumers who experienced a sustained interruption on $i^{th}$ Feeder | $R_i$ = Restoration Time for each interruption event on $i^{th}$ Feeder | $N_t$ = Total No. of consumers of the Distribution Licensee area | Sum ($R_i \times N_i$) for all Feeders excluding agri. Feeders | SAIDI = (6) / (5) |
|---|---|---|---|---|---|---|
| *(1)* | *2* | *3* | *4* | *5* | *6* | *7* |
| 1 | Oct-23 | 212918 | 31.88 | 1047987 | 6787123 | **6.48** |
| 2 | Nov-23 | 105866 | 28.87 | 1047987 | 3056133 | **2.92** |
| 3 | Dec-23 | 142837 | 26.68 | 1047987 | 3810322 | **3.64** |
| Total | | | | | | **13.03** |

### (ii) System Average Interruption Frequency Index (SAIFI)

| Sr. No. | Month | $N_i$ = No. of Consumers who experienced a sustained interruption on $i^{th}$ Feeder | Sum of Consumers of $i^{th}$ feeder which had experienced interruptions = Sum $N_i$ | $N_t$ = Total No. of consumers of the Distribution Licensee area | SAIFI = (4) / (5) |
|---|---|---|---|---|---|
| *(1)* | *2* | *3* | *4* | *5* | *6* |
| 1 | Oct-23 | 212918 | 212918 | 1047987 | **0.20** |
| 2 | Nov-23 | 105866 | 105866 | 1047987 | **0.10** |
| 3 | Dec-23 | 142837 | 142837 | 1047987 | **0.14** |
| Total | | | | | **0.44** |

### (iii) Consumer Average Interruption Duration Index (CAIDI)

| Sr. No. | Month | SAIDI | SAIFI | SAIDI / SAIFI |
|---|---|---|---|---|
| *(1)* | *2* | *3* | *4* | *5* |
| 1 | Oct-23 | 6.48 | 0.20 | **31.88** |
| 2 | Nov-23 | 2.92 | 0.10 | **28.87** |
| 3 | Dec-23 | 3.64 | 0.14 | **26.68** |
| Total | | **13.03** | **0.44** | **29.58** |

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

| Sr. no. | Month | $N_i$=Number of Consumer who experienced a sustained interruption | $R_i$=Restoration time for each interruption event of HT Consumers | Sum, ($R_i*N_i$) for all HT Consumers | CAIDI = (5)/(3) |
|---|---|---|---|---|---|
| (1) | (2) | (3) | (4) | (5) | (6) |
| 1 | Oct-23 | 33 | 22.70 | 749 | 22.70 |
| 2 | Nov-23 | 31 | 30.26 | 938 | 30.26 |
| 3 | Dec-23 | 17 | 44.29 | 753 | 44.29 |
| | Total | **81** | | **2440** | **30.12** |