

B. E. S. & T. UNDERTAKING

Annexure - IV

Performance Report regarding Reliability Indices

**Format for Quarterly (July-2019 to Sept-2019) Returns to be submitted to the Commission by the
Distribution Licensee**

(i) System Average Interruption Duration Index (SAIDI)**Jul-19**

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)
	2	3	4	5	6	7
1	Jul-19	381899	28.00	1036422	10691454	10.32
2						
3						
TOTAL		381899	28.00	1036422	10691454	10.32

(ii) System Average Interruption Frequency Index (SAIFI)**Jul-19**

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)
	2	3	4	5	6
1	Jul-19	381899	381899	1036422	0.37
2					
3					
TOTAL		381899	381899	1036422	0.37

(iii) Consumer Average Interruption Duration Index (CAIDI)**Jul-19**

Sr. No.	Month	SAIDI	SAIFI	SAIDI / SAIFI
	2	3	4	5
1	Jul-19	10.32	0.37	27.99
2				
3				
TOTAL		10.32	0.37	27.99

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Format for Quarterly (April-2019 to June-2019) Returns to be submitted to the Commission by the Distribution Licensee

(i) System Average Interruption Duration Index (SAIDI)

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)
	2	3	4	5	6	7
1	Apr-19	333371	27.82	1036422	9275268	8.95
2	May-19	339296	26.72	1036422	9064982	8.75
3	Jun-19	320547	28.38	1036422	9097282	8.78
TOTAL		993214	27.64	1036422	27437532	26.47

(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)
	2	3	4	5	6
1	Apr-19	333371	333371	1036422	0.32
2	May-19	339296	339296	1036422	0.33
3	Jun-19	320547	320547	1036422	0.31
TOTAL		993214	993214	1036422	0.96

(iii) Consumer Average Interruption Duration Index (CAIDI)

Sr. No.	Month	SAIDI	SAIFI	SAIDI / SAIFI
1	2	3	4	5
1	Apr-19	8.95	0.32	27.82
2	May-19	8.75	0.33	26.71
3	Jun-19	8.78	0.31	28.38
TOTAL		26.47	0.96	27.62

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(i) System Average Interruption Duration Index (SAIDI)

April 2018 to June 2018

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)
	2	3	4	5	6	7
1	Apr-18	331997	25.91	1026337	8601339	8.38
2	May-18	273014	20.86	1026337	5693889	5.55
3	Jun-18	346685	23.68	1026337	8207969	8.00
4	Jul-18	300861	28.20	1026337	8483989	8.27
5	Aug-18	166076	29.20	1026337	4849530	4.73
6	Sep-18	269216	22.19	1026337	5974166	5.82
7	Oct-18	331240	24.43	1026337	8091186	7.88
8	Nov-18	155269	24.82	1026337	3853156	3.75
9	Dec-18	183592	29.25	1026337	5370235	5.23
10	Jan-19	190208	28.19	1026337	5362418	5.22
11	Feb-19	207103	27.12	1026337	5616542	5.47
12	Mar-19	231288	25.15	1026337	5817075	5.67
Total		2986549	25.42	1026337	75921495	73.97

(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)
	2	3	4	5	6
1	Apr-18	331997	331997	1026337	0.32
2	May-18	273014	273014	1026337	0.27
3	Jun-18	346685	346685	1026337	0.34
4	Jul-18	300861	300861	1026337	0.29
5	Aug-18	166076	166076	1026337	0.16
6	Sep-18	269216	269216	1026337	0.26
7	Oct-18	331240	331240	1026337	0.32
8	Nov-18	155269	155269	1026337	0.15
9	Dec-18	183592	183592	1026337	0.18
10	Jan-19	190208	190208	1026337	0.19
11	Feb-19	207103	207103	1026337	0.20
12	Mar-19	231288	231288	1026337	0.23
Total		2986549	2986549	1026337	2.91

(iii) Consumer Average Interruption Duration Index (CAIDI)

Sr. No.	Month	SAIDI	SAIFI	SAIDI / SAIFI
	2	3	4	5
1	Apr-18	8.38	0.32	25.91
2	May-18	5.55	0.27	20.86
3	Jun-18	8.00	0.34	23.68
4	Jul-18	8.27	0.29	28.20
5	Aug-18	4.73	0.16	29.20
6	Sep-18	5.82	0.26	22.19
7	Oct-18	7.88	0.32	24.43
8	Nov-18	3.75	0.15	24.82
9	Dec-18	5.23	0.18	29.25
10	Jan-19	5.22	0.19	28.19
11	Feb-19	5.47	0.20	27.12
12	Mar-19	5.67	0.23	25.15
Total		73.97	2.91	25.42

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(i) System Average Interruption Duration Index (SAIDI)

April 2017 to
March 2018

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)
	2	3	4	5	6	7
1	Apr-17	254114	27.19	1014753	6908519	6.81
2	May-17	199654	29.78	1015568	5945088	5.85
3	Jun-17	286662	23.90	1015329	6850034	6.75
4	Jul-17	305194	30.16	1014753	9203323	9.07
5	Aug-17	230291	28.48	1014753	6558182	6.46
6	Sep-17	306926	29.77	1014753	9137037	9.00
7	Oct-17	232070	27.08	1014753	6283760	6.19
8	Nov-17	220890	23.48	1014753	5187263	5.11
9	Dec-17	225372	23.63	1014753	5324677	5.25
10	Jan-18	240419	24.71	1014753	5941818	5.86
11	Feb-18	214096	27.70	1014753	5931324	5.85
12	Mar-18	301361	21.96	1014753	6618657	6.52
Total		3017049	317.83	1014753	79889683	78.72

(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)
	2	3	4	5	6
1	Apr-17	254114	254114	1014753	0.25
2	May-17	199654	199654	1015568	0.20
3	Jun-17	286662	286662	1015329	0.28
4	Jul-17	305194	305194	1014753	0.30
5	Aug-17	230291	230291	1014753	0.23
6	Sep-17	306926	306926	1014753	0.30

7	Oct-17	232070	232070	1014753	0.23
8	Nov-17	220890	220890	1014753	0.22
9	Dec-17	225372	225372	1014753	0.22
10	Jan-18	240419	240419	1014753	0.24
11	Feb-18	214096	214096	1014753	0.21
12	Mar-18	301361	301361	1014753	0.30
Total		3017049	3017049	1014753	2.97

(iii) Consumer Average Interruption Duration Index (CAIDI)

Sr. No.	Month	SAIDI	SAIFI	SAIDI / SAIFI
	2	3	4	5
1	Apr-17	6.81	0.25	27.19
2	May-17	5.85	0.20	29.76
3	Jun-17	6.75	0.28	23.91
4	Jul-17	9.07	0.30	30.16
5	Aug-17	6.46	0.23	28.47
6	Sep-17	9.00	0.30	29.76
7	Oct-17	6.19	0.23	27.07
8	Nov-17	5.11	0.22	23.47
9	Dec-17	5.25	0.22	23.64
10	Jan-18	5.86	0.24	24.73
11	Feb-18	5.85	0.21	27.73
12	Mar-18	6.52	0.30	21.95
Total		78.72	2.97	26.48