

MANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

Annex- I

FORM-1

RELIABILITY INDICES FOR DISTRICT HEAD QUARTERS IN MESCOM FOR THE MONTH SEPTEMBER-2020

Sl. No.	Name of the division under District Head Quarters	Total No. of 11KV Feeders	Total No. of 11KV Feeders affected	Total No of Feeder Interruptions	Outage due to Incoming Supply failure (in Hrs)	Cumulative Outage due to Incoming Supply failure (in Hrs) for FY-21	Outage at 11KV Level (In Hrs)			Reliability for the Month				SAIFI SAIDI						
							Scheduled Outage	Unscheduled Outage	Total	Sum of outage duration of all feeders (in Hrs)	Outage duration Per feeder (in Hrs/Fdr)	Feeder Reliability Index at 11KV feeder level in %	Reliability of supply of Power to consumers in %	Cumulative outage duration of all feeders (in Hrs) for FY-21	Cumulative Outage duration Per feeder (in Hrs/Fdr)	Cumulative Feeder Reliability Index at 11KV feeder level in %	Cumulative Reliability of supply of Power to consumers in %	Sum of outage duration of all feeders (in Hrs)	SAIFI	SAIDI
1	2	3	4	4a	5	5a	6	7	8=6+7	9=5+8	10=9/3	11*	12**	13#	14=13/3#	15#	16#	17=9	18=(4a/3)	19=(17/3)
1	Mangaluru	79	79	2314	152:34:00	492:09:00	354:12:00	212:09:00	566:21:00	718:55:00	9:06:01	99.00	98.74	4206:48:01	53:15:02	98.93	98.79	718.92	29.29	9.10
2	Kavoor	35	35	1375	231:10:00	737:06:00	257:20:00	124:21:00	381:41:00	612:51:00	17:30:36	98.49	97.57	3116:03:00	89:01:48	98.45	97.97	612.85	39.29	17.51
3	Udupi	37	37	2142	258:13:00	712:53:00	434:45:00	274:37:00	709:22:00	967:35:00	26:09:03	97.34	96.37	4174:23:00	112:49:16	97.87	97.43	967.58	57.89	26.15
4	Shivamogga	38	38	852	15:00:00	48:33:00	213:25:00	105:32:00	318:57:00	333:57:00	8:47:17	98.83	98.78	2469:00:00	64:58:25	98.55	98.52	333.95	22.42	8.79
5	Chikkamagaluru	7	7	221	4:32:00	94:35:00	87:40:00	24:39:00	112:19:00	116:51:00	16:41:34	97.77	97.68	776:00:00	110:51:26	97.78	97.48	116.85	31.57	16.69
	Total	196	196	6904	661:29:00	2085:16:00	1347:22:00	741:18:00	2088:40:00	2750:09:00	14:01:53	98.52	98.05	14742:14:01	75:12:56	98.53	98.29	2750.15	35.22	14.03

In Shivamogga out of 41 feeders load of 3 feeders were shifted to other feeders. Hence, total No. of feeders considered as 38.

* Feeder Reliability Index at 11KV feeder Level= {[Total No of 11kv Feeders x 24 Hrs x No. of days in the Month] - [outage duration of all 11kv feeders during the month in Hrs as in column 8]} x 100/[Total No of 11kv Feeders x 24Hrs x No. of days in the Month]

The cumulative figures shall indicate the data from April Upto the current month of the financial year.

** Reliability of supply of power to consumers= {[Total No. of feeders x 24 Hrs x No. of days in the month] - [Sum of outage duration including outage in higher voltages along with 11 kv Outage during the month in hrs as in column 9]} x 100/ [Total No. of Feeders x 24 hrs x No. of days in the month]

Superintending Engineer(Ele)(Tech)
MESCOM,Mangaluru

MANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

Annex- II

FORM-II

RELIABILITY INDICES FOR TOWN & CITIES IN MESCOM FOR THE MONTH OF SEPTEMBER-2020

Sl. No.	Name of the Town/City	Total No. of 11KV Feeders	Total No. of 11KV Feeders affected	Total No of Feeder Interruptions	Outage due to Incoming Supply failure (in Hrs)	Cumulative Outage due to Incoming Supply failure (in Hrs) for FY-21	Outage at 11KV Level (In Hrs)			Reliability for the Month				SAIFI SAIDI						
							Scheduled Outage	Unscheduled Outage	Total	Sum of outage duration of all feeders (in Hrs)	Outage duration Per feeder (in Hrs/Fdr)	Feeder Reliability Index at 11KV feeder level in %	Reliability of supply of Power to consumers in %	Cumulative outage duration of all feeders (in Hrs) for FY-21	Cumulative Outage duration Per feeder (in Hrs/Fdr)	Cumulative Feeder Reliability Index at 11KV feeder level in %	Cumulative Reliability of supply of Power to consumers in %	Sum of outage duration of all feeders (in Hrs)	SAIFI	SAIDI
1	2	3	4	4a	5	5a	6	7	8=6+7	9=5+8	10=9/3	11*	12**	13#	14=13/3#	15#	16#	17=9	18=(4a/3)	19=(17/3)
1	Moodabidre	8	8	377	20:44:00	97:44:00	60:56:00	39:16:00	100:12:00	120:56:00	15:07:00	98.26	97.90	931:33:00	116:26:38	97.63	97.35	120.93	47.13	15.12
2	Bantwal	5	5	738	106:18:00	221:28:00	51:44:00	42:43:00	94:27:00	200:45:00	40:09:00	97.38	94.42	572:15:00	114:27:00	98.40	97.39	200.75	147.60	40.15
3	Belthangadi	2	2	56	1:12:00	40:21:00	9:00:00	6:53:00	15:53:00	17:05:00	8:32:30	98.90	98.81	115:56:00	57:58:00	99.14	98.68	17.08	28.00	8.54
4	Puttur	12	12	923	36:45:00	231:18:00	151:51:00	107:14:00	259:05:00	295:50:00	24:39:10	97.00	96.58	2367:59:00	197:19:55	95.95	95.51	295.83	76.92	24.65
5	Kadaba	2	2	208	82:22:00	631:54:00	22:10:00	29:42:00	51:52:00	134:14:00	67:07:00	96.40	90.68	1136:18:00	568:09:00	94.26	87.06	134.23	104.00	67.12
6	Sullia	2	2	363	67:50:00	537:06:00	61:25:00	13:50:00	75:15:00	143:05:00	71:32:30	94.77	90.06	1006:36:00	503:18:00	94.66	88.54	143.08	181.50	71.54
7	Karkala	4	4	189	4:12:00	18:04:00	65:42:00	27:43:00	93:25:00	97:37:00	24:24:15	96.76	96.61	907:25:00	226:51:15	94.94	94.83	97.62	47.25	24.40
8	Kundapura	3	3	155	3:18:00	89:00:00	27:34:00	27:28:00	55:02:00	58:20:00	19:26:40	97.45	97.30	425:19:00	141:46:20	97.45	96.77	58.33	51.67	19.44
9	Bhadravathi	27	27	592	90:55:00	342:37:00	785:39:00	37:12:00	822:51:00	913:46:00	33:50:36	95.77	95.30	2746:51:00	101:44:07	97.97	97.68	913.77	21.93	33.84
10	Thirthahalli	3	3	50	10:30:00	79:45:00	1:50:00	16:25:00	18:15:00	28:45:00	9:35:00	99.16	98.67	235:05:00	78:21:40	98.82	98.22	28.75	16.67	9.58
11	Soraba	1	1	5	1:30:00	7:20:00	18:50:00	4:20:00	23:10:00	24:40:00	24:40:00	96.78	96.57	264:05:00	264:05:00	94.15	93.99	24.67	5.00	24.67
12	Hosnagara	1	1	5	21:50:00	212:50:00	19:45:00	2:45:00	22:30:00	44:20:00	44:20:00	96.88	93.84	392:25:00	392:25:00	95.91	91.07	44.33	5.00	44.33
13	Sagar	6	6	118	0:00:00	3:10:00	78:35:00	24:15:00	102:50:00	102:50:00	17:08:20	97.62	97.62	1322:15:00	220:22:30	94.99	94.98	102.83	19.67	17.14
14	Jog	5	5	19	0:00:00	15:20:00	9:05:00	15:00:00	24:05:00	24:05:00	4:49:00	99.33	99.33	329:40:00	65:56:00	98.57	98.50	24.08	3.80	4.82
15	Shikaripura	7	7	282	3:05:00	80:20:00	61:30:00	34:30:00	96:00:00	99:05:00	14:09:17	98.10	98.03	924:30:00	132:04:17	97.25	96.99	99.08	40.29	14.15
16	Shiralkoppa	1	1	78	8:45:00	35:05:00	12:00:00	4:55:00	16:55:00	25:40:00	25:40:00	97.65	96.44	151:40:00	151:40:00	97.35	96.55	25.67	78.00	25.67
17	Mudigere	1	1	62	11:05:00	47:15:00	15:36:00	3:02:00	18:38:00	29:43:00	29:43:00	97.41	95.87	235:51:00	235:51:00	95.71	94.63	29.72	62.00	29.72
18	Koppa	1	1	95	20:35:00	137:40:00	23:10:00	8:45:00	31:55:00	52:30:00	52:30:00	95.57	92.71	406:30:00	406:30:00	93.88	90.74	52.50	95.00	52.50
19	Sringeri	1	1	64	35:05:00	288:35:00	7:55:00	8:00:00	15:55:00	51:00:00	51:00:00	97.79	92.92	401:05:00	401:05:00	97.44	90.87	51.00	64.00	51.00
20	N.R.Pura	1	1	143	16:10:00	66:45:00	18:00:00	10:20:00	28:20:00	44:30:00	44:30:00	96.06	93.82	268:30:00	268:30:00	95.41	93.89	44.50	143.00	44.50
21	Kadur	2	2	154	7:30:00	7:30:00	31:20:00	7:15:00	38:35:00	46:05:00	23:02:30	97.32	96.80	279:57:00	139:58:30	96.90	96.81	46.08	77.00	23.04
22	Tharikere	2	2	111	8:00:00	39:25:00	31:15:00	7:25:00	38:40:00	46:40:00	23:20:00	97.31	96.76	269:10:00	134:35:00	97.38	96.94	46.67	55.50	23.33
23	Birur	2	2	84	8:50:00	18:30:00	14:00:00	4:50:00	18:50:00	27:40:00	13:50:00	98.69	98.08	272:40:00	136:20:00	97.11	96.90	27.67	42.00	13.83
Total		99	99	4871	566:31:00	3249:02:00	1578:52:00	483:48:00	2062:40:00	2629:11:00	26:33:27	97.11	96.31	15963:35:00	161:14:54	97.08	96.33	2629.18	49.20	26.56

* Feeder Reliability Index at 11KV feeder Level=[(Total No of 11kv Feeders x 24 Hrs x No. of days in the Month) - [outage duration of all 11kv feeders during the month in Hrs as in colums 8)] x 100/[Total No of

The cumulative figures shall indicate the data from April Upto the current month of the financial year.

** Reliability of supply of power to consumers= {[Total No. of feeders x 24 Hrs x No. of days in the month] - [Sum of outage duration including outage in higher voltages along with 11 kv Outage during the month in hrs as in column 9)] x 100/ [Total No. of Feeders x 24 hrs x No. of days in the month]

Superintending Engineer(Ele)(Tech)
MESCOM,Mangaluru

MANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

Annex- III

FORM-III

RELIABILITY INDICES FOR RURAL AREAS IN MESCOM FOR THE MONTH OF SEPTEMBER-2020

Sl. No.	Name of the division	Total No. of 11KV rural Feeders	Total No. of 11KV rural Feeders affected	Total No of Feeder Interruptions	Outage due to Incoming Supply failure (in Hrs)	Cumulative Outage due to Incoming Supply failure (in Hrs) for FY-21	Outage at 11KV Level (In Hrs)			Reliability for the Month				SAIFI SAIDI						
							Scheduled Outage	Unscheduled Outage	Total	Sum of outage duration of all feeders (in Hrs)	Outage duration Per feeder (in Hrs/Fdr)	Feeder Reliability Index at 11KV feeder level in %	Reliability of supply of Power to consumers in %	Cumulative outage duration of all feeders (in Hrs) for FY-21	Cumulative Outage duration Per feeder (in Hrs/Fdr)	Cumulative Feeder Reliability Index at 11KV feeder level in %	Cumulative Reliability of supply of Power to consumers in %	Sum of outage duration of all feeders (in Hrs)	SAIFI	SAIDI
1	2	3	4	4a	5	5a	6	7	8=6+7	9=5+8	10=9/3	11*	12**	13#	14=13/3#	15#	16#	17=9	18=(4a/3)	19=(17/3)
1	Mangaluru	9	9	760	28:28:00	55:03:00	130:35:00	70:39:00	201:14:00	229:42:00	25:31:20	96.89	96.46	1187:38:00	131:57:33	97.13	97.00	229.70	84.44	25.52
2	Kavoor	29	29	1591	96:09:00	261:37:00	324:07:00	176:08:00	500:15:00	596:24:00	20:33:56	97.60	97.14	3463:16:00	119:25:23	97.49	97.28	596.40	54.86	20.57
3	Puttur	51	51	6290	1421:57:00	10401:40:00	796:58:00	797:16:00	1594:14:00	3016:11:00	59:08:27	95.66	91.79	22855:48:00	448:09:11	94.44	89.80	3016.18	123.33	59.14
4	Bantwal	82	82	7368	772:11:00	4215:21:00	1083:53:00	1081:56:00	2165:49:00	2938:00:00	35:49:45	96.33	95.02	17139:35:00	209:01:10	96.41	95.24	2938.00	89.85	35.83
5	Udupi	57	57	4378	284:33:00	1535:32:00	851:56:00	844:48:00	1696:44:00	1981:17:00	34:45:34	95.87	95.17	12512:12:00	219:30:44	95.62	95.00	1981.28	76.81	34.76
6	Kundapura	47	47	3900	389:46:00	2417:42:00	648:09:36	870:41:00	1518:50:36	1908:36:36	40:36:31	95.51	94.36	12381:39:36	263:26:22	95.17	94.00	1908.61	82.98	40.61
7	Shivamogga	69	69	5780	264:33:00	1202:07:00	1078:46:00	1780:57:00	2859:43:00	3124:16:00	45:16:45	94.24	93.71	20744:36:00	300:38:47	93.55	93.15	3124.27	83.77	45.28
8	Bhadravathi	39	39	2913	127:05:00	1008:22:00	1767:53:00	1434:41:00	3202:34:00	3329:39:00	85:22:32	88.59	88.14	24461:35:00	627:13:12	86.31	85.72	3329.65	74.69	85.38
9	Sagar	67	67	2334	485:55:00	3851:15:00	2380:54:00	2774:44:00	5155:38:00	5641:33:00	84:12:08	89.31	88.31	47135:33:00	703:30:56	85.29	83.98	5641.55	34.84	84.20
10	Shikaripura	133	133	10294	431:38:00	2246:54:00	4177:22:00	3741:30:00	7918:52:00	8350:30:00	62:47:09	91.73	91.28	52030:12:00	391:12:16	91.48	91.09	8350.50	77.40	62.79
11	Chikkamagaluru	48	48	5077	387:08:00	2671:52:00	1248:24:00	1771:47:00	3020:11:00	3407:19:00	70:59:09	91.26	90.14	20709:46:00	431:27:12	91.44	90.18	3407.32	105.77	70.99
12	Kadur	159	159	15976	699:00:00	2498:55:00	16978:35:00	5859:25:00	22838:00:00	23537:00:00	148:01:53	80.05	79.44	137844:20:00	866:56:44	80.62	80.26	23537.00	100.48	148.03
13	Koppa	36	36	3614	875:53:00	6471:43:00	921:26:00	1457:30:00	2378:56:00	3254:49:00	90:24:42	90.82	87.44	23713:42:00	658:42:50	89.10	85.00	3254.82	100.39	90.41
	Total	826	826	70275	6264:16:00	38838:03:00	32388:58:36	22662:02:00	55051:00:36	61315:16:36	74:13:54	90.74	89.69	396179:52:36	479:38:12	90.15	89.08	61315.28	85.08	74.23

* Feeder Reliability Index at 11kv feeder Level= $\frac{[(\text{Total No of 11kv Feeders} \times 24 \text{ Hrs} \times \text{No. of days in the Month}) - (\text{outage duration of all 11kv feeders during the month in Hrs as in columns 8})]}{(\text{Total No of 11kv Feeders} \times 24 \text{ Hrs})} \times 100$

The cumulative figures shall indicate the data from April Upto the current month of the financial year.

** Reliability of supply of power to consumers= $\frac{[(\text{Total No. of feeders} \times 24 \text{ Hrs} \times \text{No. of days in the month}) - (\text{Sum of outage duration including outage in higher voltages along with 11 kv Outage during the month in hrs as in column 9})]}{(\text{Total No. of Feeders} \times 24 \text{ hrs} \times \text{No. of days in the month})} \times 100$

Superintending Engineer(Ele)(Tech)
MESCOM,Mangaluru