

# MANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

Annex- I

FORM-1

## RELIABILITY INDICES FOR DISTRICT HEAD QUARTERS IN MESCOM FOR THE MONTH AUGUST-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	2194	50:29:00	339:35:00	482:30:00	186:35:00	669:05:00	719:34:00	9:06:30	98.86	98.78	3487:53:01	44:09:02	98.91	98.80	719:57	27.77	9.11
2	Kavoor	35	35	1692	294:19:00	505:56:00	225:56:00	181:48:00	407:44:00	702:03:00	20:03:31	98.43	97.30	2503:12:00	71:31:12	98.45	98.05	702:05	48.34	20.06
3	Udupi	36	36	2149	55:32:00	454:40:00	249:44:00	309:49:00	559:33:00	615:05:00	17:05:08	97.91	97.70	3206:48:00	89:04:40	97.92	97.57	615:08	59.69	17.09
4	Shivamogga	38	38	928	10:30:00	33:33:00	306:46:00	80:48:00	387:34:00	398:04:00	10:28:32	98.63	98.59	2135:03:00	56:11:08	98.49	98.47	398:07	24.42	10.48
5	Chikkamagaluru	7	7	271	0:00:00	90:03:00	39:45:00	67:07:00	106:52:00	106:52:00	15:16:00	97.95	97.95	659:09:00	94:09:51	97.79	97.44	106:87	38.71	15.27
	<b>Total</b>	<b>195</b>	<b>195</b>	<b>7234</b>	<b>410:50:00</b>	<b>1423:47:00</b>	<b>1304:41:00</b>	<b>826:07:00</b>	<b>2130:48:00</b>	<b>2541:38:00</b>	<b>13:02:02</b>	<b>98.53</b>	<b>98.25</b>	<b>11992:05:01</b>	<b>61:29:52</b>	<b>98.52</b>	<b>98.33</b>	<b>2541.63</b>	<b>37.10</b>	<b>13.03</b>

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=  $\left\{ \frac{\text{Total No of 11kv Feeders} \times 24 \text{ Hrs} \times \text{No. of days in the Month}}{\text{[outage duration of all 11kv feeders during the month in Hrs as in columns 8]}} \right\} \times 100 / \left[ \frac{\text{Total No of 11kv Feeders} \times 24 \text{ Hrs} \times \text{No. of days in the Month}}{\text{[Total No of 11kv Feeders} \times 24 \text{ Hrs} \times \text{No. of days in the Month}]}} \right]$

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

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

**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 AUGUST-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	471	12:36:00	77:00:00	142:42:00	83:53:00	226:35:00	239:11:00	29:53:53	96.19	95.98	810:37:00	101:19:38	97.50	97.24	239.18	58.88	29.90
2	Bantwal	5	5	727	108:20:00	115:10:00	50:39:00	40:41:00	91:20:00	199:40:00	39:56:00	97.54	94.63	371:30:00	74:18:00	98.60	97.98	199.67	145.40	39.93
3	Belthangadi	2	2	54	1:10:00	39:09:00	8:00:00	5:51:00	13:51:00	15:01:00	7:30:30	99.07	98.99	98:51:00	49:25:30	99.19	98.65	15.02	27.00	7.51
4	Puttur	12	12	1301	10:34:00	194:33:00	172:03:00	195:23:00	367:26:00	378:00:00	31:30:00	95.88	95.77	2072:09:00	172:40:45	95.74	95.30	378.00	108.42	31.50
5	Kadaba	2	2	253	68:24:00	549:32:00	19:23:00	80:25:00	99:48:00	168:12:00	84:06:00	93.29	88.70	1002:04:00	501:02:00	93.84	86.36	168.20	126.50	84.10
6	Sullia	2	2	546	113:30:00	469:16:00	60:30:00	39:00:00	99:30:00	213:00:00	106:30:00	93.31	85.69	863:31:00	431:45:30	94.63	88.24	213.00	273.00	106.50
7	Karkala	4	4	217	0:53:00	13:52:00	56:11:00	31:04:00	87:15:00	88:08:00	22:02:00	97.07	97.04	809:48:00	202:27:00	94.58	94.49	88.13	54.25	22.03
8	Kundapura	3	3	180	37:33:00	85:42:00	26:38:00	37:03:00	63:41:00	101:14:00	33:44:40	97.15	95.46	366:59:00	122:19:40	97.45	96.67	101.23	60.00	33.74
9	Bhadravathi	27	27	686	30:31:00	251:42:00	302:31:00	63:41:00	366:12:00	396:43:00	14:41:36	98.18	98.03	1833:05:00	67:53:31	98.40	98.15	396.72	25.41	14.69
10	Thirthahalli	3	3	195	4:30:00	69:15:00	16:50:00	47:20:00	64:10:00	68:40:00	22:53:20	97.13	96.92	206:20:00	68:46:40	98.76	98.13	68.67	65.00	22.89
11	Soraba	1	1	31	0:15:00	5:50:00	26:05:00	13:00:00	39:05:00	39:20:00	39:20:00	94.75	94.71	239:25:00	239:25:00	93.64	93.48	39.33	31.00	39.33
12	Hosnagara	1	1	31	47:05:00	191:00:00	23:10:00	2:50:00	26:00:00	73:05:00	73:05:00	96.51	90.18	348:05:00	348:05:00	95.72	90.52	73.08	31.00	73.08
13	Sagar	6	6	336	0:00:00	3:10:00	109:35:00	167:15:00	276:50:00	276:50:00	46:08:20	93.80	93.80	1219:25:00	203:14:10	94.48	94.47	276.83	56.00	46.14
14	Jog	5	5	49	0:00:00	15:20:00	56:20:00	22:05:00	78:25:00	78:25:00	15:41:00	97.89	97.89	305:35:00	61:07:00	98.42	98.34	78.42	9.80	15.68
15	Shikaripura	7	7	229	22:45:00	77:15:00	40:00:00	32:30:00	72:30:00	95:15:00	13:36:26	98.61	98.17	825:25:00	117:55:00	97.09	96.79	95.25	32.71	13.61
16	Shiralkoppa	1	1	84	8:05:00	26:20:00	12:10:00	15:30:00	27:40:00	35:45:00	35:45:00	96.28	95.19	126:00:00	126:00:00	97.29	96.57	35.75	84.00	35.75
17	Mudigere	1	1	103	10:35:00	36:10:00	32:10:00	30:05:00	62:15:00	72:50:00	72:50:00	91.63	90.21	206:08:00	206:08:00	95.37	94.39	72.83	103.00	72.83
18	Koppa	1	1	160	17:45:00	117:05:00	38:35:00	45:25:00	84:00:00	101:45:00	101:45:00	88.71	86.32	354:00:00	354:00:00	93.55	90.36	101.75	160.00	101.75
19	Sringeri	1	1	107	75:30:00	253:30:00	17:35:00	5:40:00	23:15:00	98:45:00	98:45:00	96.88	86.73	350:05:00	350:05:00	97.37	90.47	98.75	107.00	98.75
20	N.R.Pura	1	1	195	9:10:00	50:35:00	15:20:00	35:50:00	51:10:00	60:20:00	60:20:00	93.12	91.89	224:00:00	224:00:00	95.28	93.90	60.33	195.00	60.33
21	Kadur	2	2	115	0:00:00	0:00:00	16:42:00	11:45:00	28:27:00	28:27:00	14:13:30	98.09	98.09	233:52:00	116:56:00	96.82	96.82	28.45	57.50	14.23
22	Tharikere	2	2	92	4:00:00	31:25:00	26:00:00	11:55:00	37:55:00	41:55:00	20:57:30	97.45	97.18	222:30:00	111:15:00	97.40	96.97	41.92	46.00	20.96
23	Birur	2	2	150	0:00:00	9:40:00	47:50:00	22:00:00	69:50:00	69:50:00	34:55:00	95.31	95.31	245:00:00	122:30:00	96.80	96.66	69.83	75.00	34.92
Total		99	99	6312	583:11:00	2682:31:00	1316:59:00	1040:11:00	2357:10:00	2940:21:00	29:42:02	96.80	96.01	13334:24:00	134:41:27	97.07	96.33	2940.35	63.76	29.70

\* 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 columns 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- III

FORM-III

## RELIABILITY INDICES FOR RURAL AREAS IN MESCOM FOR THE MONTH OF AUGUST-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	632	2:24:00	26:35:00	113:53:00	65:57:00	179:50:00	182:14:00	20:14:53	97.31	97.28	957:56:00	106:26:13	97.18	97.10	182.23	70.22	20.25
2	Kavoor	29	29	2082	43:55:00	165:28:00	368:23:00	416:00:00	784:23:00	828:18:00	28:33:43	96.36	96.16	2866:52:00	98:51:27	97.46	97.31	828.30	71.79	28.56
3	Puttur	51	51	8372	1321:40:00	8979:43:00	1001:27:00	1315:26:00	2316:53:00	3638:33:00	71:20:39	93.89	90.41	19839:37:00	389:00:44	94.20	89.41	3638.55	164.16	71.34
4	Bantwal	81	81	7272	770:11:00	3443:10:00	1081:56:00	1080:42:00	2162:38:00	2932:49:00	36:12:27	96.41	95.13	14201:35:00	175:19:41	96.38	95.23	2932.82	89.78	36.21
5	Udupi	58	58	5569	147:45:00	1250:59:00	836:29:00	1418:10:00	2254:39:00	2402:24:00	41:25:14	94.78	94.43	10530:55:00	181:34:03	95.64	95.06	2402.40	96.02	41.42
6	Kundapura	47	47	5153	711:19:00	2027:56:00	813:16:00	1332:26:00	2145:42:00	2857:01:00	60:47:15	93.86	91.83	10473:03:00	222:49:51	95.11	93.93	2857.02	109.64	60.79
7	Shivamogga	69	69	6811	178:35:00	937:34:00	1385:15:00	2525:22:00	3910:37:00	4089:12:00	59:15:50	92.38	92.03	17620:20:00	255:22:02	93.42	93.05	4089.20	98.71	59.26
8	Bhadravathi	39	39	2924	167:47:00	881:17:00	1458:31:00	1210:26:00	2668:57:00	2836:44:00	72:44:12	90.80	90.22	21131:56:00	541:50:40	85.86	85.24	2836.73	74.97	72.74
9	Sagar	67	67	3917	1296:05:00	3365:20:00	2748:30:00	4976:10:00	7724:40:00	9020:45:00	134:38:17	84.50	81.90	41494:00:00	619:18:48	84.50	83.13	9020.75	58.46	134.64
10	Shikaripura	130	130	11435	508:27:00	1815:16:00	5996:16:00	5433:34:00	11429:50:00	11938:17:00	91:49:59	88.18	87.66	43679:42:00	335:59:52	91.23	90.85	11938.28	87.96	91.83
11	Chikkamagaluru	48	48	5929	657:12:00	2284:44:00	2012:49:00	2832:56:00	4845:45:00	5502:57:00	114:38:41	86.43	84.59	17302:27:00	360:28:04	91.48	90.18	5502.95	123.52	114.64
12	Kadur	159	159	16385	290:45:00	1799:55:00	16261:25:00	5123:40:00	21385:05:00	21675:50:00	136:19:34	81.92	81.68	114307:20:00	718:54:51	80.73	80.42	21675.83	103.05	136.33
13	Koppa	36	36	4447	1377:17:00	5595:50:00	1275:05:00	2354:11:00	3629:16:00	5006:33:00	139:04:15	86.45	81.31	20458:53:00	568:18:08	88.76	84.52	5006.55	123.53	139.07
	<b>Total</b>	<b>823</b>	<b>823</b>	<b>80928</b>	<b>7473:22:00</b>	<b>32573:47:00</b>	<b>35353:15:00</b>	<b>30085:00:00</b>	<b>65438:15:00</b>	<b>72911:37:00</b>	<b>88:35:33</b>	<b>89.31</b>	<b>88.09</b>	<b>334864:36:00</b>	<b>406:52:58</b>	<b>90.00</b>	<b>88.92</b>	<b>72911.62</b>	<b>98.33</b>	<b>88.59</b>

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

# 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