

# MANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

Annex- I

FORM-1

## RELIABILITY INDICES FOR DISTRICT HEAD QUARTERS IN MESCOM FOR THE MONTH NOVEMBER-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	1389	20:36:00	688:43:00	417:52:00	108:43:00	526:35:00	547:11:00	6:55:35	99.07	99.04	5456:17:01	69:04:01	98.97	98.82	547.18	17.58	6.93
2	Kavoor	35	35	804	145:57:00	1031:58:00	158:02:00	99:37:00	257:39:00	403:36:00	11:31:53	98.98	98.40	4000:20:00	114:17:43	98.55	98.05	403.60	22.97	11.53
3	Udupi	35	35	780	102:49:00	952:45:00	116:43:00	52:50:00	169:33:00	272:22:00	7:46:55	99.33	98.92	4897:01:00	139:54:53	98.08	97.61	272.37	22.29	7.78
4	Shivamogga	38	38	702	9:30:00	69:27:00	534:19:00	66:17:00	600:36:00	610:06:00	16:03:19	97.80	97.77	3521:48:00	92:40:44	98.45	98.42	610.10	18.47	16.06
5	Chikkamagaluru	7	7	155	0:00:00	94:35:00	38:32:00	9:47:00	48:19:00	48:19:00	6:54:09	99.04	99.04	886:02:00	126:34:34	98.07	97.84	48.32	22.14	6.90
	<b>Total</b>	<b>194</b>	<b>194</b>	<b>3830</b>	<b>278:52:00</b>	<b>2837:28:00</b>	<b>1265:28:00</b>	<b>337:14:00</b>	<b>1602:42:00</b>	<b>1881:34:00</b>	<b>9:41:56</b>	<b>98.85</b>	<b>98.65</b>	<b>18761:28:01</b>	<b>96:42:31</b>	<b>98.60</b>	<b>98.35</b>	<b>1881.57</b>	<b>19.74</b>	<b>9.70</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=  $\left[ \frac{\text{Total No of 11kv Feeders} \times 24 \text{ Hrs} \times \text{No. of days in the Month}}{\text{[outage duration of all 11kv feeders during the month in Hrs as in columns 8]} \times 100} \right] / \text{[Total No of 11kv Feeders} \times 24 \text{Hrs} \times \text{No. of days in the Month}]$

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

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

Sd/-  
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 NOVEMBER-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	189	36:42:00	139:46:00	118:03:00	17:53:00	135:56:00	172:38:00	21:34:45	97.64	97.00	1170:27:00	146:18:23	97.80	97.50	172.63	23.63	21.58
2	Bantwal	5	5	508	62:24:00	391:15:00	27:48:00	13:48:00	41:36:00	104:00:00	20:48:00	98.84	97.11	881:03:00	176:12:36	98.33	96.99	104.00	101.60	20.80
3	Belthangadi	2	2	59	4:33:00	46:09:00	6:31:00	4:33:00	11:04:00	15:37:00	7:48:30	99.23	98.92	149:32:00	74:46:00	99.12	98.72	15.62	29.50	7.81
4	Puttur	12	12	834	65:55:00	356:49:00	138:34:00	90:17:00	228:51:00	294:46:00	24:33:50	97.35	96.59	2839:14:00	236:36:10	96.47	95.96	294.77	69.50	24.56
5	Kadaba	2	2	195	55:56:00	838:16:00	12:07:00	22:23:00	34:30:00	90:26:00	45:13:00	97.60	93.72	1415:04:00	707:32:00	95.08	87.92	90.43	97.50	45.22
6	Sullia	2	2	267	58:50:00	620:26:00	32:05:00	9:35:00	41:40:00	100:30:00	50:15:00	97.11	93.02	1180:46:00	590:23:00	95.22	89.92	100.50	133.50	50.25
7	Karkala	4	4	125	0:20:00	22:58:00	35:13:00	14:22:00	49:35:00	49:55:00	12:28:45	98.28	98.27	1013:57:00	253:29:15	95.77	95.67	49.92	31.25	12.48
8	Kundapura	3	3	77	2:06:00	94:06:00	69:17:00	7:35:00	76:52:00	78:58:00	26:19:20	96.44	96.34	553:21:00	184:27:00	97.39	96.85	78.97	25.67	26.32
9	Bhadravathi	27	27	579	47:55:00	527:18:00	345:33:00	25:31:00	371:04:00	418:59:00	15:31:04	98.09	97.84	3796:52:00	140:37:29	97.93	97.60	418.98	21.44	15.52
10	Thirthahalli	3	3	54	3:00:00	87:00:00	15:45:00	2:20:00	18:05:00	21:05:00	7:01:40	99.16	99.02	291:10:00	97:03:20	98.84	98.34	21.08	18.00	7.03
11	Soraba	1	1	57	0:00:00	9:45:00	13:55:00	1:55:00	15:50:00	15:50:00	15:50:00	97.80	97.80	296:10:00	296:10:00	95.11	94.94	15.83	57.00	15.83
12	Hosnagara	1	1	46	21:45:00	243:55:00	8:55:00	2:45:00	11:40:00	33:25:00	33:25:00	98.38	95.36	444:15:00	444:15:00	96.58	92.41	33.42	46.00	33.42
13	Sagar	6	6	176	0:00:00	11:00:00	184:35:00	15:35:00	200:10:00	200:10:00	33:21:40	95.37	95.37	1609:25:00	268:14:10	95.45	95.42	200.17	29.33	33.36
14	Jog	5	5	9	0:00:00	18:20:00	0:10:00	0:50:00	1:00:00	1:00:00	0:12:00	99.97	99.97	381:10:00	76:14:00	98.76	98.70	1.00	1.80	0.20
15	Shikaripura	7	7	128	12:50:00	136:55:00	41:40:00	11:05:00	52:45:00	65:35:00	9:22:09	98.95	98.70	1102:35:00	157:30:43	97.64	97.31	65.58	18.29	9.37
16	Shiralkoppa	1	1	46	7:45:00	45:55:00	8:25:00	1:35:00	10:00:00	17:45:00	17:45:00	98.61	97.53	198:45:00	198:45:00	97.39	96.61	17.75	46.00	17.75
17	Mudigere	1	1	60	4:13:00	51:38:00	9:17:00	4:00:00	13:17:00	17:30:00	17:30:00	98.16	97.57	264:53:00	264:53:00	96.36	95.48	17.50	60.00	17.50
18	Koppa	1	1	90	18:05:00	176:20:00	9:15:00	7:05:00	16:20:00	34:25:00	34:25:00	97.73	95.22	493:25:00	493:25:00	94.59	91.57	34.42	90.00	34.42
19	Sringeri	1	1	46	8:00:00	331:40:00	5:15:00	2:00:00	7:15:00	15:15:00	15:15:00	98.99	97.88	467:20:00	467:20:00	97.68	92.02	15.25	46.00	15.25
20	N.R.Pura	1	1	121	7:15:00	90:10:00	13:55:00	3:50:00	17:45:00	25:00:00	25:00:00	97.53	96.53	338:00:00	338:00:00	95.77	94.23	25.00	121.00	25.00
21	Kadur	2	2	87	0:00:00	7:30:00	27:10:00	5:35:00	32:45:00	32:45:00	16:22:30	97.73	97.73	341:12:00	170:36:00	97.15	97.09	32.75	43.50	16.38
22	Tharikere	2	2	55	0:00:00	42:35:00	14:25:00	6:45:00	21:10:00	21:10:00	10:35:00	98.53	98.53	325:50:00	162:55:00	97.58	97.22	21.17	27.50	10.58
23	Birur	2	2	72	0:00:00	21:50:00	28:30:00	3:50:00	32:20:00	32:20:00	16:10:00	97.75	97.75	323:30:00	161:45:00	97.42	97.24	32.33	36.00	16.17
	<b>Total</b>	<b>99</b>	<b>99</b>	<b>3880</b>	<b>417:34:00</b>	<b>4311:36:00</b>	<b>1166:23:00</b>	<b>275:07:00</b>	<b>1441:30:00</b>	<b>1859:04:00</b>	<b>18:46:42</b>	<b>97.98</b>	<b>97.39</b>	<b>19877:56:00</b>	<b>200:47:14</b>	<b>97.31</b>	<b>96.57</b>	<b>1859.07</b>	<b>39.19</b>	<b>18.78</b>

\* 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

# The cumulative figures shall indicate the data from April to 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]

Sd/-

**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 NOVEMBER-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	466	6:49:00	75:37:00	88:08:00	49:17:00	137:25:00	144:14:00	16:01:33	97.88	97.77	1470:48:00	163:25:20	97.35	97.21	144.23	51.78	16.03
2	Kavoor	29	29	1021	84:55:00	376:26:00	279:23:00	94:14:00	373:37:00	458:32:00	15:48:41	98.21	97.80	4280:40:00	147:36:33	97.70	97.48	458.53	35.21	15.81
3	Puttur	52	52	5095	1545:47:00	13716:18:00	599:36:00	524:15:00	1123:51:00	2669:38:00	51:20:21	97.00	92.87	28391:23:00	545:59:17	95.18	90.68	2669.63	97.98	51.34
4	Bantwal	83	83	6929	746:49:00	5725:42:00	1006:36:00	703:41:00	1710:17:00	2457:06:00	29:36:13	97.14	95.89	22511:43:00	271:13:32	96.55	95.37	2457.10	83.48	29.60
5	Udupi	59	59	2262	345:57:00	1957:38:00	528:43:00	267:34:00	796:17:00	1142:14:00	19:21:36	98.13	97.31	14854:56:00	251:46:43	96.27	95.70	1142.23	38.34	19.36
6	Kundapura	45	45	2316	302:37:00	3078:45:00	623:51:27	300:55:13	924:46:40	1227:23:40	27:16:32	97.15	96.21	15162:29:16	336:56:39	95.41	94.25	1227.39	51.47	27.28
7	Shivamogga	70	70	4988	146:50:00	1476:53:00	2760:50:00	796:45:00	3557:35:00	3704:25:00	52:55:13	92.94	92.65	26764:56:00	382:21:22	93.83	93.47	3704.42	71.26	52.92
8	Bhadravathi	39	39	3060	366:52:00	1641:13:00	3864:35:00	606:37:00	4471:12:00	4838:04:00	124:03:11	84.08	82.77	32585:26:00	835:31:26	86.45	85.73	4838.07	78.46	124.05
9	Sagar	65	65	4507	424:20:00	4662:05:00	3902:30:00	695:05:00	4597:35:00	5021:55:00	77:15:37	90.18	89.27	56974:08:00	876:31:30	86.26	85.03	5021.92	69.34	77.26
10	Shikaripura	136	136	10254	415:15:00	3150:53:00	28892:17:00	1238:26:00	30130:43:00	30545:58:00	224:36:10	69.23	68.81	89660:23:00	659:16:03	89.14	88.74	30545.97	75.40	224.60
11	Chikkamagaluru	48	48	4133	80:15:00	2848:54:00	3870:35:00	707:30:00	4578:05:00	4658:20:00	97:02:55	86.75	86.52	27872:33:00	580:40:41	91.10	90.08	4658.33	86.10	97.05
12	Kadur	162	162	14660	125:20:00	2825:10:00	22222:38:00	2986:01:00	25208:39:00	25333:59:00	156:22:57	78.39	78.28	185912:09:00	1147:36:21	80.70	80.40	25333.98	90.49	156.38
13	Koppa	36	36	2948	309:04:00	7656:40:00	924:32:00	518:31:00	1443:03:00	1752:07:00	48:40:12	94.43	93.24	28720:38:00	797:47:43	90.01	86.38	1752.12	81.89	48.67
	<b>Total</b>	<b>833</b>	<b>833</b>	<b>62639</b>	<b>4900:50:00</b>	<b>49192:14:00</b>	<b>69564:14:27</b>	<b>9488:51:13</b>	<b>79053:05:40</b>	<b>83953:55:40</b>	<b>100:47:06</b>	<b>86.82</b>	<b>86.00</b>	<b>535162:12:16</b>	<b>642:27:06</b>	<b>90.04</b>	<b>89.03</b>	<b>83953.93</b>	<b>75.20</b>	<b>100.79</b>

In Kundapura division 11KV Bailoor Feeder Clubbed with 11 KV Shankaranarayana Feeder

In Sagara division 2 feeders are clubbed and one feeder kept idle.

\* Feeder Reliability Index at 11KV feeder Level=([ Total No of 11kv Feedersx 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 24]

# The cumulative figures shall indicate the data from April to 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]

Sd/  
Superintending Engineer(Ele)(Tech)  
MESCOM,Mangaluru