

# MANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

Annex- I

FORM-1

## RELIABILITY INDICES FOR DISTRICT HEAD QUARTERS IN MESCOM FOR THE MONTH NOVEMBER-2021

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-22	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-22	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	81	81	1867	95:57:00	655:54:00	386:25:00	139:08:00	525:33:00	621:30:00	7:40:22	99.10	98.93	5597:31:00	69:06:19	98.96	98.82	621.50	23.05	7.67
2	Kavoor	36	36	964	143:58:00	1387:58:00	188:47:00	117:51:00	306:38:00	450:36:00	12:31:00	98.82	98.26	4921:30:00	136:42:30	98.32	97.67	450.60	26.78	12.52
3	Udupi	33	33	1519	231:00:00	808:17:00	271:15:00	140:53:00	412:08:00	643:08:00	19:29:20	98.27	97.29	4255:34:00	128:57:24	98.22	97.80	643.13	46.03	19.49
4	Shivamogga	40	40	1101	9:55:00	132:55:00	268:31:00	106:33:00	375:04:00	384:59:00	9:37:28	98.70	98.66	4988:53:00	124:43:19	97.93	97.87	384.98	27.53	9.62
5	Chikkamagaluru	8	8	208	0:00:00	11:58:00	40:55:00	20:05:00	61:00:00	61:00:00	7:37:30	98.94	98.94	665:40:00	83:12:30	98.60	98.58	61.00	26.00	7.63
	<b>Total</b>	<b>198</b>	<b>198</b>	<b>5659</b>	<b>480:50:00</b>	<b>2997:02:00</b>	<b>1155:53:00</b>	<b>524:30:00</b>	<b>1680:23:00</b>	<b>2161:13:00</b>	<b>10:54:55</b>	<b>98.82</b>	<b>98.48</b>	<b>20429:08:00</b>	<b>103:10:39</b>	<b>98.50</b>	<b>98.24</b>	<b>2161.22</b>	<b>28.58</b>	<b>10.92</b>

Note: In Shivamogga division, cable fault in MF-11 & MF-15 feeders from 08.11.21

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

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

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

**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 NOVEMBER-2021

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-22	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-22	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	348	36:28:00	116:21:00	75:12:00	40:04:00	115:16:00	151:44:00	18:58:00	98.00	97.37	1852:56:00	231:37:00	96.29	96.04	151.73	43.50	18.97
2	Bantwal	5	5	368	15:44:00	94:02:00	29:20:00	58:11:00	87:31:00	103:15:00	20:39:00	97.57	97.13	950:34:00	190:06:48	97.07	96.75	103.25	73.60	20.65
3	Belthangadi	2	2	177	14:16:00	38:34:00	25:38:00	29:28:00	55:06:00	69:22:00	34:41:00	96.17	95.18	337:01:00	168:30:30	97.45	97.12	69.37	88.50	34.68
4	Puttur	12	12	830	23:00:00	108:35:00	138:48:00	114:30:00	253:18:00	276:18:00	23:01:30	97.07	96.80	2371:55:00	197:39:35	96.78	96.62	276.30	69.17	23.03
5	Kadaba	2	2	186	31:58:00	430:10:00	13:21:00	15:46:00	29:07:00	61:05:00	30:32:30	97.98	95.76	976:56:00	488:28:00	95.33	91.66	61.08	93.00	30.54
6	Sullia	2	2	367	94:40:00	618:50:00	33:35:00	10:35:00	44:10:00	138:50:00	69:25:00	96.93	90.36	1186:05:00	593:02:30	95.16	89.87	138.83	183.50	69.42
7	Karkala	8	8	405	15:47:00	465:02:00	147:20:00	93:56:00	241:16:00	257:03:00	32:07:53	95.81	95.54	1978:19:00	247:17:22	96.77	95.78	257.05	50.63	32.13
8	Kundapura	3	3	120	27:48:00	153:21:00	11:55:00	15:15:00	27:10:00	54:58:00	18:19:20	98.74	97.46	547:44:00	182:34:40	97.76	96.88	54.97	40.00	18.32
9	Bhadravathi	28	28	662	96:00:00	241:45:00	345:25:00	70:15:00	415:40:00	511:40:00	18:16:26	97.94	97.46	2562:19:00	91:30:41	98.58	98.44	511.67	23.64	18.27
10	Thirthahalli	3	3	70	6:30:00	20:45:00	5:55:00	5:40:00	11:35:00	18:05:00	6:01:40	99.46	99.16	184:45:00	61:35:00	99.07	98.95	18.08	23.33	6.03
11	Soraba	1	1	45	2:00:00	13:20:00	24:55:00	3:35:00	28:30:00	30:30:00	30:30:00	96.04	95.76	295:45:00	295:45:00	95.18	94.95	30.50	45.00	30.50
12	Hosnagara	1	1	52	9:30:00	219:50:00	14:15:00	4:30:00	18:45:00	28:15:00	28:15:00	97.40	96.08	575:10:00	575:10:00	93.93	90.18	28.25	52.00	28.25
13	Sagar	7	7	229	9:15:00	25:35:00	41:50:00	80:45:00	122:35:00	131:50:00	18:50:00	97.57	97.38	1482:10:00	211:44:17	96.45	96.38	131.83	32.71	18.83
14	Jog	3	3	70	5:00:00	16:45:00	12:50:00	20:10:00	33:00:00	38:00:00	12:40:00	98.47	98.24	435:30:00	145:10:00	97.62	97.52	38.00	23.33	12.67
15	Shikaripura	7	7	164	25:05:00	146:25:00	36:20:00	13:25:00	49:45:00	74:50:00	10:41:26	99.01	98.52	1618:55:00	231:16:26	96.41	96.05	74.83	23.43	10.69
16	Shiralkoppa	1	1	76	0:35:00	41:00:00	396:20:00	138:10:00	534:30:00	535:05:00	535:05:00	25.76	25.68	1341:25:00	1341:25:00	77.79	77.09	535.08	76.00	535.08
17	Anavatti	1	1	46	2:45:00	28:00:00	15:35:00	3:45:00	19:20:00	22:05:00	22:05:00	97.31	96.93	92:10:00	92:10:00	98.90	98.43	22.08	46.00	22.08
18	Mudigere	1	1	53	9:57:00	56:32:00	6:10:00	10:30:00	16:40:00	26:37:00	26:37:00	97.69	96.30	190:21:00	190:21:00	97.71	96.75	26.62	53.00	26.62
19	Koppa	1	1	65	4:10:00	69:10:00	8:55:00	2:15:00	11:10:00	15:20:00	15:20:00	98.45	97.87	284:00:00	284:00:00	96.33	95.15	15.33	65.00	15.33
20	Sringeri	1	1	57	17:45:00	247:55:00	8:50:00	1:55:00	10:45:00	28:30:00	28:30:00	98.51	96.04	364:26:00	364:26:00	98.01	93.78	28.50	57.00	28.50
21	N.R.Pura	1	1	117	2:10:00	21:45:00	17:30:00	9:00:00	26:30:00	28:40:00	28:40:00	96.32	96.02	312:45:00	312:45:00	95.03	94.66	28.67	117.00	28.67
22	Kadur	2	2	140	0:40:00	1:30:00	30:11:00	6:30:00	36:41:00	37:21:00	18:40:30	97.45	97.41	364:46:00	182:23:00	96.90	96.89	37.35	70.00	18.68
23	Tharikere	3	3	218	8:45:00	91:50:00	27:20:00	4:30:00	31:50:00	40:35:00	13:31:40	98.53	98.12	404:36:00	134:52:00	98.22	97.70	40.58	72.67	13.53
24	Birur	1	1	64	2:50:00	12:30:00	7:15:00	1:50:00	9:05:00	11:55:00	11:55:00	98.74	98.34	218:05:00	218:05:00	96.49	96.28	11.92	64.00	11.92
	<b>Total</b>	<b>104</b>	<b>104</b>	<b>4929</b>	<b>462:38:00</b>	<b>3279:32:00</b>	<b>1474:45:00</b>	<b>754:30:00</b>	<b>2229:15:00</b>	<b>2691:53:00</b>	<b>25:53:01</b>	<b>97.02</b>	<b>96.41</b>	<b>20928:38:00</b>	<b>201:14:13</b>	<b>97.10</b>	<b>96.56</b>	<b>2691.88</b>	<b>47.39</b>	<b>25.88</b>

\* Feeder Reliability Index at 11KV feeder Level= $\left[ \frac{\text{Total No of 11kv Feeders} \times 24 \text{ Hrs} \times \text{No. of days in the Month}}{\text{Sum of outage duration of all 11kv feeders during the month in Hrs as in columns 8}} \right] \times 100$  / [Total No of 11kv Feeders x 24Hrs x 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= $\left[ \frac{\text{Total No. of feeders} \times 24 \text{ Hrs} \times \text{No. of days in the month}}{\text{Sum of outage duration including outage in higher voltages along with 11 kv Outage during the month in hrs as in column 9}} \right] \times 100$  / [Total No. of Feeders x 24 hrs x No. of days in the month]

Superintending Engineer(EI)(Tech)  
MESCOM,Mangaluru

# MANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

Annex- III

FORM-III

## RELIABILITY INDICES FOR RURAL AREAS IN MESCOM FOR THE MONTH OF NOVEMBER-2021

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-22	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-22	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	620	2:39:00	103:03:00	114:47:00	85:35:00	200:22:00	203:01:00	22:33:27	96.91	96.87	1763:11:00	195:54:33	96.85	96.65	203.02	68.89	22.56
2	Kavoor	29	29	1533	63:48:00	479:05:00	338:21:00	243:46:00	582:07:00	645:55:00	22:16:23	97.21	96.91	5869:43:00	202:24:14	96.83	96.54	645.92	52.86	22.27
3	Puttur	56	56	6365	856:24:00	7962:10:00	945:19:00	1114:44:00	2060:03:00	2916:27:00	52:04:46	94.89	92.77	26849:48:00	479:27:39	94.24	91.81	2916.45	113.66	52.08
4	Bantwal	87	87	7587	666:02:00	4459:27:00	1252:47:00	1214:01:00	2466:48:00	3132:50:00	36:00:34	96.06	95.00	27737:12:00	318:49:06	95.43	94.56	3132.83	87.21	36.01
5	Udupi	65	65	4853	417:33:00	2031:18:00	1138:02:00	890:03:00	2028:05:00	2445:38:00	37:37:30	95.67	94.77	19521:20:29	300:19:42	95.41	94.87	2445.63	74.66	37.63
6	Kundapura	46	46	3833	418:29:00	2717:33:00	701:48:00	588:52:10	1290:40:10	1709:09:10	37:09:20	96.10	94.84	14992:19:10	325:55:12	95.44	94.43	1709.15	83.33	37.16
7	Shivamogga	79	79	6058	221:25:00	1059:34:00	3428:39:00	1850:40:00	5279:19:00	5500:44:00	69:37:46	90.72	90.33	51257:26:00	648:49:42	89.15	88.92	5500.73	76.68	69.63
8	Bhadravathi	40	40	3083	302:05:00	1964:51:00	7266:57:00	2385:50:00	9652:47:00	9954:52:00	248:52:18	66.48	65.43	63581:46:00	1589:32:39	73.69	72.86	9954.87	77.08	248.87
9	Sagar	90	90	5856	456:10:00	4773:26:00	4511:24:00	3177:05:00	7688:29:00	8144:39:00	90:29:46	88.14	87.43	74623:36:00	829:09:04	86.75	85.84	8144.65	65.07	90.50
10	Shikaripura	140	140	12758	368:17:00	5073:53:00	34136:08:00	9209:30:00	43345:38:00	43713:55:00	312:14:32	57.00	56.63	366359:44:00	2616:51:19	55.93	55.31	43713.92	91.13	312.24
11	Chikkamagaluru	48	48	5450	208:24:00	1703:46:00	2190:56:00	1539:43:00	3730:39:00	3939:03:00	82:03:49	89.21	88.60	40231:32:00	838:09:25	86.29	85.69	3939.05	113.54	82.06
12	Kadur	187	187	16738	118:40:00	1776:35:00	23669:37:00	9613:30:00	33283:07:00	33401:47:00	178:37:09	75.28	75.19	269075:35:00	1438:54:25	75.59	75.43	33401.78	89.51	178.62
13	Koppa	37	37	4312	303:42:00	3475:53:00	773:16:00	953:29:00	1726:45:00	2030:27:00	54:52:37	93.52	92.38	25387:27:00	686:08:50	89.89	88.28	2030.45	116.54	54.88
	<b>Total</b>	<b>913</b>	<b>913</b>	<b>79046</b>	<b>4403:38:00</b>	<b>37580:34:00</b>	<b>80468:01:00</b>	<b>32866:48:10</b>	<b>113334:49:10</b>	<b>117738:27:10</b>	<b>128:57:28</b>	<b>82.76</b>	<b>82.09</b>	<b>987250:39:39</b>	<b>1081:19:34</b>	<b>82.24</b>	<b>81.53</b>	<b>117738.45</b>	<b>86.58</b>	<b>128.96</b>

Note: In kundapura division, Byndoor feeder clubbed with ganganadu feeder. In Sagara division, Rippenpete and Aduvalli feeders are idle, Badrapura feeder handed over to Sagara

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

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

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

Superintending Engineer(Ele)(Tech)  
MESCOM, Mangaluru