

# MANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

Annex- I

FORM-1

## RELIABILITY INDICES FOR DISTRICT HEAD QUARTERS IN MESCOM FOR THE MONTH DECEMBER-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	1310	25:41:00	681:35:00	555:35:00	68:06:00	623:41:00	649:22:00	8:01:01	98.97	98.92	6246:53:00	77:07:19	98.96	98.83	649.37	16.17	8.02
2	Kavoor	36	36	663	82:24:00	1470:22:00	231:33:00	49:59:00	281:32:00	363:56:00	10:06:33	98.95	98.64	5285:26:00	146:49:03	98.39	97.78	363.93	18.42	10.11
3	Udupi	33	33	744	106:42:00	914:59:00	163:49:00	53:17:00	217:06:00	323:48:00	9:48:44	99.12	98.68	4579:22:00	138:46:07	98.32	97.90	323.80	22.55	9.81
4	Shivamogga	41	41	753	2:20:00	135:15:00	428:34:00	47:15:00	475:49:00	478:09:00	11:39:44	98.44	98.43	5467:02:00	133:20:32	98.03	97.98	478.15	18.37	11.66
5	Chikkamagaluru	8	8	164	0:00:00	11:58:00	66:17:00	6:52:00	73:09:00	73:09:00	9:08:37	98.77	98.77	738:49:00	92:21:07	98.62	98.60	73.15	20.50	9.14
	<b>Total</b>	<b>199</b>	<b>199</b>	<b>3634</b>	<b>217:07:00</b>	<b>3214:09:00</b>	<b>1445:48:00</b>	<b>225:29:00</b>	<b>1671:17:00</b>	<b>1888:24:00</b>	<b>9:29:22</b>	<b>98.87</b>	<b>98.72</b>	<b>22317:32:00</b>	<b>112:08:54</b>	<b>98.55</b>	<b>98.30</b>	<b>1888.40</b>	<b>18.26</b>	<b>9.49</b>

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

\* 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 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= ([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- II

FORM-II

## RELIABILITY INDICES FOR TOWN & CITIES IN MESCOM FOR THE MONTH OF DECEMBER-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	270	0:00:00	116:21:00	58:25:00	15:30:00	73:55:00	73:55:00	9:14:22	98.76	98.76	1926:51:00	240:51:23	96.57	96.35	73.92	33.75	9.24
2	Bantwal	5	5	389	16:24:00	110:26:00	31:36:00	59:06:00	90:42:00	107:06:00	21:25:12	97.56	97.12	1057:40:00	211:32:00	97.13	96.79	107.10	77.80	21.42
3	Belthangadi	2	2	177	14:16:00	52:50:00	25:19:00	29:38:00	54:57:00	69:13:00	34:36:30	96.31	95.35	406:14:00	203:07:00	97.32	96.92	69.22	88.50	34.61
4	Puttur	12	12	537	40:46:00	149:21:00	97:28:00	43:42:00	141:10:00	181:56:00	15:09:40	98.42	97.96	2553:51:00	212:49:15	96.96	96.78	181.93	44.75	15.16
5	Kadaba	2	2	122	30:38:00	460:48:00	6:37:00	25:50:00	32:27:00	63:05:00	31:32:30	97.82	95.76	1040:01:00	520:00:30	95.61	92.12	63.08	61.00	31.54
6	Sullia	2	2	281	63:20:00	682:10:00	30:00:00	6:15:00	36:15:00	99:35:00	49:47:30	97.56	93.31	1285:40:00	642:50:00	95.43	90.26	99.58	140.50	49.79
7	Karkala	8	8	192	23:53:00	488:55:00	23:31:00	13:50:00	37:21:00	61:14:00	7:39:15	99.37	98.97	2039:33:00	254:56:37	97.06	96.14	61.23	24.00	7.65
8	Kundapura	3	3	93	12:24:00	165:45:00	38:14:00	6:59:00	45:13:00	57:37:00	19:12:20	97.97	97.42	605:21:00	201:47:00	97.78	96.94	57.62	31.00	19.21
9	Bhadravathi	28	28	523	12:10:00	253:55:00	188:49:00	48:03:00	236:52:00	249:02:00	8:53:39	98.86	98.80	2811:21:00	100:24:19	98.62	98.48	249.03	18.68	8.89
10	Thirthahalli	3	3	21	0:00:00	20:45:00	2:05:00	1:05:00	3:10:00	3:10:00	1:03:20	99.86	99.86	187:55:00	62:38:20	99.16	99.05	3.17	7.00	1.06
11	Soraba	1	1	45	1:30:00	14:50:00	11:35:00	1:50:00	13:25:00	14:55:00	14:55:00	98.20	98.00	310:40:00	310:40:00	95.52	95.29	14.92	45.00	14.92
12	Hosnagara	1	1	43	4:25:00	224:15:00	4:45:00	7:25:00	12:10:00	16:35:00	16:35:00	98.36	97.77	591:45:00	591:45:00	94.43	91.03	16.58	43.00	16.58
13	Sagar	7	7	139	0:00:00	25:35:00	59:15:00	37:20:00	96:35:00	96:35:00	13:47:51	98.15	98.15	1578:45:00	225:32:09	96.64	96.58	96.58	19.86	13.80
14	Jog	3	3	30	0:00:00	16:45:00	14:00:00	13:15:00	27:15:00	27:15:00	9:05:00	98.78	98.78	462:45:00	154:15:00	97.75	97.66	27.25	10.00	9.08
15	Shikaripura	7	7	153	15:15:00	161:40:00	36:10:00	6:45:00	42:55:00	58:10:00	8:18:34	99.18	98.88	1677:05:00	239:35:00	96.72	96.37	58.17	21.86	8.31
16	Shiralkoppa	1	1	40	6:00:00	47:00:00	12:30:00	0:50:00	13:20:00	19:20:00	19:20:00	98.21	97.40	1360:45:00	1360:45:00	80.09	79.38	19.33	40.00	19.33
17	Anavatti	2	2	98	20:15:00	48:15:00	33:30:00	2:05:00	35:35:00	55:50:00	27:55:00	97.61	96.25	148:00:00	74:00:00	99.24	98.88	55.83	49.00	27.92
18	Mudigere	1	1	34	9:48:00	66:20:00	4:22:00	0:20:00	4:42:00	14:30:00	14:30:00	99.37	98.05	204:51:00	204:51:00	97.90	96.90	14.50	34.00	14.50
19	Koppa	1	1	50	14:00:00	83:10:00	7:40:00	2:45:00	10:25:00	24:25:00	24:25:00	98.60	96.72	308:25:00	308:25:00	96.59	95.33	24.42	50.00	24.42
20	Sringeri	1	1	43	24:40:00	272:35:00	6:57:00	1:00:00	7:57:00	32:37:00	32:37:00	98.93	95.62	397:03:00	397:03:00	98.11	93.98	32.62	43.00	32.62
21	N.R.Pura	1	1	98	9:20:00	31:05:00	14:20:00	3:15:00	17:35:00	26:55:00	26:55:00	97.64	96.38	339:40:00	339:40:00	95.32	94.85	26.92	98.00	26.92
22	Kadur	2	2	87	0:00:00	1:30:00	2:25:00	25:55:00	28:20:00	28:20:00	14:10:00	98.10	98.10	393:06:00	196:33:00	97.03	97.02	28.33	43.50	14.17
23	Tharikere	3	3	81	10:35:00	102:25:00	34:00:00	2:00:00	36:00:00	46:35:00	15:31:40	98.39	97.91	451:11:00	150:23:40	98.24	97.72	46.58	27.00	15.53
24	Birur	1	1	28	1:30:00	14:00:00	7:15:00	3:50:00	11:05:00	12:35:00	12:35:00	98.51	98.31	230:40:00	230:40:00	96.72	96.51	12.58	28.00	12.58
Total		105	105	3574	331:09:00	3610:41:00	750:48:00	358:33:00	1109:21:00	1440:30:00	13:43:09	98.58	98.16	22369:08:00	213:02:22	97.29	96.77	1440.50	34.04	13.72

MF-11 & MF-15 cable fault from 08.11.21

\* 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 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= ([Total No. of feeders x 24 Hrs x 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 colum 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 DECEMBER-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	448	1:32:00	104:35:00	158:24:00	33:13:00	191:37:00	193:09:00	21:27:40	97.14	97.12	1956:20:00	217:22:13	96.88	96.71	193.15	49.78	21.46
2	Kavoor	29	29	787	6:36:00	485:41:00	159:47:00	67:17:00	227:04:00	233:40:00	8:03:27	98.95	98.92	6103:23:00	210:27:41	97.06	96.81	233.67	27.14	8.06
3	Puttur	60	60	4810	864:23:00	8826:33:00	853:24:00	406:58:00	1260:22:00	2124:45:00	35:24:45	97.18	95.24	28974:33:00	482:54:33	94.91	92.68	2124.75	80.17	35.41
4	Bantwal	87	87	7571	646:51:00	5106:18:00	1262:35:00	1186:33:00	2449:08:00	3095:59:00	35:35:10	96.22	95.22	30833:11:00	354:24:16	95.52	94.63	3095.98	87.02	35.59
5	Udupi	65	65	2403	224:25:00	2255:43:00	787:45:00	267:32:00	1055:17:00	1279:42:00	19:41:16	97.82	97.35	20801:02:29	320:00:58	95.68	95.15	1279.70	36.97	19.69
6	Kundapura	47	47	2344	378:10:00	3095:43:00	573:45:00	282:49:00	856:34:00	1234:44:00	26:16:15	97.55	96.47	16227:03:10	345:15:23	95.77	94.77	1234.73	49.87	26.27
7	Shivamogga	79	79	5255	67:49:00	1127:23:00	3379:18:00	1272:44:00	4652:02:00	4719:51:00	59:44:42	92.09	91.97	55977:17:00	708:34:24	89.48	89.26	4719.85	66.52	59.74
8	Bhadravathi	40	40	3129	153:33:00	2118:24:00	5802:15:00	1625:51:00	7428:06:00	7581:39:00	189:32:29	75.04	74.52	71163:25:00	1779:05:07	73.85	73.04	7581.65	78.23	189.54
9	Sagar	89	89	4663	221:20:00	4994:46:00	4821:50:00	1290:30:00	6112:20:00	6333:40:00	71:09:53	90.77	90.43	80957:16:00	909:37:56	87.07	86.22	6333.67	52.39	71.16
10	Shikaripura	139	139	12406	586:56:00	5660:49:00	40185:31:00	4401:31:00	44587:02:00	45173:58:00	324:59:33	56.89	56.32	411533:42:00	2960:40:27	55.76	55.14	45173.97	89.25	324.99
11	Chikkamagaluru	48	48	3898	76:47:00	1780:33:00	3715:06:00	728:15:00	4443:21:00	4520:08:00	94:10:10	87.56	87.34	44751:40:00	932:19:35	86.44	85.87	4520.13	81.21	94.17
12	Kadur	191	191	16718	241:45:00	2018:20:00	27601:30:00	6007:40:00	33609:10:00	33850:55:00	177:13:48	76.35	76.18	302926:30:00	1586:00:09	76.13	75.97	33850.92	87.53	177.23
13	Koppa	37	37	2943	355:56:00	3831:49:00	521:09:00	402:54:00	924:03:00	1279:59:00	34:35:39	96.64	95.35	26667:26:00	720:44:29	90.65	89.08	1279.98	79.54	34.59
	<b>Total</b>	<b>920</b>	<b>920</b>	<b>67375</b>	<b>3826:03:00</b>	<b>41406:37:00</b>	<b>89822:19:00</b>	<b>17973:47:00</b>	<b>107796:06:00</b>	<b>111622:09:00</b>	<b>121:19:42</b>	<b>84.25</b>	<b>83.69</b>	<b>1098872:48:39</b>	<b>1194:25:37</b>	<b>82.58</b>	<b>81.90</b>	<b>111622.15</b>	<b>73.23</b>	<b>121.33</b>

In kundapura division, Byndoor feeder clubbed with Ganganadu feeder. In Sagara division, Rippenpete and Aduvalli feeders are idle, Kadasuru feeder changed to Auxiliary feeder.

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

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