

# MANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

Annex- I

FORM-1

## RELIABILITY INDICES FOR DISTRICT HEAD QUARTERS IN MESCOM FOR THE MONTH SEPTEMBER-2022

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-23	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-23	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	90	90	1345	38:11:00	781:27:00	256:18:00	103:12:00	359:30:00	397:41:00	4:25:07	99.45	99.39	4949:26:00	54:59:37	98.95	98.75	397.68	14.94	4.42
2	Kavoor	36	36	892	23:24:00	719:46:00	288:36:00	69:29:00	358:05:00	381:29:00	10:35:48	98.62	98.53	3628:15:00	100:47:05	98.16	97.71	381.48	24.78	10.60
3	Udupi	36	36	1106	2092:53:00	5466:15:00	155:58:00	92:52:00	248:50:00	2341:43:00	65:02:52	99.04	90.97	7884:22:00	219:00:37	98.47	95.01	2341.72	30.72	65.05
4	Shivamogga	42	42	917	13:40:00	282:52:00	764:32:00	104:14:00	868:46:00	882:26:00	21:00:37	97.13	97.08	5237:10:00	124:41:40	97.31	97.16	882.43	21.83	21.01
5	Chikkamagaluru	8	8	213	0:00:00	3:00:00	116:05:00	17:30:00	133:35:00	133:35:00	16:41:52	97.68	97.68	631:40:00	78:57:30	98.21	98.20	133.58	26.63	16.70
	<b>Total</b>	<b>212</b>	<b>212</b>	<b>4473</b>	<b>2168:08:00</b>	<b>7253:20:00</b>	<b>1581:29:00</b>	<b>387:17:00</b>	<b>1968:46:00</b>	<b>4136:54:00</b>	<b>19:30:49</b>	<b>98.71</b>	<b>97.29</b>	<b>22330:53:00</b>	<b>105:20:04</b>	<b>98.38</b>	<b>97.60</b>	<b>4136.90</b>	<b>21.10</b>	<b>19.51</b>

Note: In Shivamogga division, MF-11 cable fault

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

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

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

**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 SEPTEMBER-2022

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-23	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-23	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	258	0:16:00	51:00:00	131:08:00	40:03:00	171:11:00	171:27:00	21:25:53	97.03	97.02	1359:32:00	169:56:30	96.28	96.13	171.45	32.25	21.43
2	Bantwal	9	9	647	38:12:00	110:12:00	54:06:00	115:51:00	169:57:00	208:09:00	23:07:40	97.38	96.79	957:03:00	106:20:20	97.86	97.58	208.15	71.89	23.13
3	Belthangadi	2	2	163	0:30:00	1:50:00	35:10:00	12:22:00	47:32:00	48:02:00	24:01:00	96.70	96.66	299:02:00	149:31:00	96.62	96.60	48.03	81.50	24.02
4	Puttur	12	12	714	19:54:00	141:39:00	123:43:00	84:00:00	207:43:00	227:37:00	18:58:05	97.60	97.37	2354:38:00	196:13:10	95.80	95.53	227.62	59.50	18.97
5	Kadaba	2	2	182	34:26:00	436:34:00	10:55:00	24:05:00	35:00:00	69:26:00	34:43:00	97.57	95.18	852:52:00	426:26:00	95.26	90.29	69.43	91.00	34.72
6	Sullia	4	4	503	122:40:00	932:35:00	57:10:00	21:15:00	78:25:00	201:05:00	50:16:15	97.28	93.02	1688:20:00	422:05:00	95.70	90.39	201.08	125.75	50.27
7	Karkala	5	5	149	0:00:00	22:46:00	72:39:00	21:20:00	93:59:00	93:59:00	18:47:48	97.39	97.39	1669:32:00	333:54:24	92.50	92.40	93.98	29.80	18.80
8	Kaup	3	3	243	52:33:00	337:10:00	18:57:00	18:44:00	37:41:00	90:14:00	30:04:40	98.26	95.82	795:09:00	265:03:00	96.52	93.97	90.23	81.00	30.08
9	Kundapura	5	5	159	32:07:00	135:19:00	40:57:00	11:13:00	52:10:00	84:17:00	16:51:24	98.55	97.66	664:16:00	132:51:12	97.59	96.98	84.28	31.80	16.86
10	Bhadravathi	27	27	451	66:45:00	264:30:00	278:47:00	36:02:00	314:49:00	381:34:00	14:07:56	98.38	98.04	3817:04:00	141:22:22	97.00	96.78	381.57	16.70	14.13
11	Thirthahalli	3	3	68	1:15:00	13:45:00	16:00:00	2:40:00	18:40:00	19:55:00	6:38:20	99.14	99.08	145:35:00	48:31:40	99.00	98.90	19.92	22.67	6.64
12	Soraba	1	1	73	3:10:00	13:30:00	35:15:00	4:30:00	39:45:00	42:55:00	42:55:00	94.48	94.04	326:00:00	326:00:00	92.88	92.58	42.92	73.00	42.92
13	Hosnagara	1	1	52	30:45:00	160:10:00	7:45:00	4:50:00	12:35:00	43:20:00	43:20:00	98.25	93.98	299:10:00	299:10:00	96.84	93.19	43.33	52.00	43.33
14	Sagar	7	7	190	5:30:00	37:20:00	99:20:00	25:05:00	124:25:00	129:55:00	18:33:34	97.53	97.42	1373:10:00	196:10:00	95.65	95.53	129.92	27.14	18.56
15	Jog	3	3	55	8:15:00	38:30:00	36:05:00	4:20:00	40:25:00	48:40:00	16:13:20	98.13	97.75	382:30:00	127:30:00	97.39	97.10	48.67	18.33	16.22
16	Shikaripura	7	7	147	52:50:00	225:30:00	34:15:00	13:10:00	47:25:00	100:15:00	14:19:17	99.06	98.01	665:30:00	95:04:17	98.57	97.84	100.25	21.00	14.32
17	Shiralkoppa	1	1	39	1:00:00	29:30:00	14:55:00	2:05:00	17:00:00	18:00:00	18:00:00	97.64	97.50	151:55:00	151:55:00	97.21	96.54	18.00	39.00	18.00
18	Anavatti	2	2	118	2:25:00	74:35:00	36:40:00	4:40:00	41:20:00	43:45:00	21:52:30	97.13	96.96	867:45:00	433:52:30	90.97	90.12	43.75	59.00	21.88
19	Mudigere	1	1	81	0:25:00	52:50:00	18:00:00	6:05:00	24:05:00	24:30:00	24:30:00	96.66	96.60	262:05:00	262:05:00	95.24	94.03	24.50	81.00	24.50
20	Koppa	1	1	74	5:35:00	60:20:00	9:05:00	5:55:00	15:00:00	20:35:00	20:35:00	97.92	97.14	233:20:00	233:20:00	96.06	94.69	20.58	74.00	20.58
21	Sringeri	1	1	73	20:25:00	220:07:00	8:02:00	2:40:00	10:42:00	31:07:00	31:07:00	98.51	95.68	316:52:00	316:52:00	97.80	92.79	31.12	73.00	31.12
22	N.R.Pura	1	1	176	3:50:00	25:10:00	37:30:00	21:10:00	58:40:00	62:30:00	62:30:00	91.85	91.32	400:55:00	400:55:00	91.44	90.87	62.50	176.00	62.50
23	Kadur	2	2	171	0:40:00	15:31:00	15:15:00	19:58:00	35:13:00	35:53:00	17:56:30	97.55	97.51	217:17:00	108:38:30	97.70	97.53	35.88	85.50	17.94
24	Tharikere	2	2	123	14:40:00	77:10:00	23:35:00	12:35:00	36:10:00	50:50:00	25:25:00	97.49	96.47	401:40:00	200:50:00	96.31	95.43	50.83	61.50	25.42
25	Birur	1	1	47	0:15:00	16:50:00	14:00:00	2:30:00	16:30:00	16:45:00	16:45:00	97.71	97.67	148:15:00	148:15:00	97.01	96.62	16.75	47.00	16.75
	<b>Total</b>	<b>111</b>	<b>111</b>	<b>4956</b>	<b>518:23:00</b>	<b>3494:23:00</b>	<b>1229:14:00</b>	<b>517:08:00</b>	<b>1746:22:00</b>	<b>2264:45:00</b>	<b>20:24:11</b>	<b>97.81</b>	<b>97.17</b>	<b>20649:27:00</b>	<b>186:01:52</b>	<b>96.48</b>	<b>95.76</b>	<b>2264.75</b>	<b>44.65</b>	<b>20.40</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 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]

**Superintending Engineer(Ele)(Tech)**  
**MESCOM,Mangaluru**

# MANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

Annex- III

FORM-III

## RELIABILITY INDICES FOR RURAL AREAS (EXCLUDING EIP FEEDERS) IN MESCOM FOR THE MONTH OF SEPTEMBER-2022

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-23	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-23	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	444	9:55:00	94:17:00	79:04:00	45:35:00	124:39:00	134:34:00	14:57:07	98.08	97.92	1521:51:00	169:05:40	96.39	96.15	134.57	49.33	14.95
2	Kavoor	30	30	1102	0:28:00	188:33:00	358:34:00	114:46:00	473:20:00	473:48:00	15:47:36	97.81	97.81	3910:18:00	130:20:36	97.18	97.03	473.80	36.73	15.79
3	Puttur	58	58	5563	645:31:00	7325:52:00	781:54:00	707:37:00	1489:31:00	2135:02:00	36:48:39	96.43	94.89	24095:13:00	415:26:05	93.42	90.54	2135.03	95.91	36.81
4	Bantwal	92	92	8980	634:30:00	4187:56:00	1292:36:00	1382:17:00	2674:53:00	3309:23:00	35:58:18	95.96	95.00	22684:45:00	246:34:24	95.42	94.39	3309.38	97.61	35.97
5	Udupi	45	45	2000	216:10:00	3223:58:00	573:47:00	253:35:00	827:22:00	1043:32:00	23:11:23	97.45	96.78	11283:19:00	250:44:25	95.92	94.29	1043.53	44.44	23.19
6	Karkala	30	30	1604	94:40:00	567:18:00	412:22:00	238:23:00	650:45:00	745:25:00	24:50:50	96.99	96.55	6482:28:00	216:04:56	95.51	95.08	745.42	53.47	24.85
7	Kundapura	58	58	2758	471:00:00	2360:51:00	625:53:00	407:03:00	1032:56:00	1503:56:00	25:55:48	97.53	96.40	14284:13:31	246:16:47	95.32	94.39	1503.93	47.55	25.93
8	Shivamogga	69	69	3844	93:17:00	758:15:00	1113:01:00	1478:26:00	2591:27:00	2684:44:00	38:54:33	94.78	94.60	24564:38:28	356:00:33	92.14	91.89	2684.73	55.71	38.91
9	Bhadravathi	21	21	1189	148:00:00	633:56:00	1156:28:00	822:04:00	1978:32:00	2126:32:00	101:15:49	86.91	85.94	10584:03:00	504:00:09	89.21	88.52	2126.53	56.62	101.26
10	Sagar	73	73	4471	433:25:00	4254:00:00	3125:35:00	1632:15:00	4757:50:00	5191:15:00	71:06:47	90.95	90.12	41869:15:00	573:33:05	89.73	86.94	5191.25	61.25	71.11
11	Shikaripura	54	54	3570	114:31:00	2188:28:00	1887:09:00	1825:28:00	3712:37:00	3827:08:00	70:52:22	90.45	90.16	38693:31:00	716:32:48	84.61	83.69	3827.13	66.11	70.87
12	Chikkamagaluru	49	49	5054	25:03:00	1964:05:00	2288:38:00	1535:45:00	3824:23:00	3849:26:00	78:33:36	89.16	89.09	37451:32:00	764:19:01	83.51	82.60	3849.43	103.14	78.56
13	Kadur	68	68	4552	351:35:00	1506:50:00	2697:40:00	1081:45:00	3779:25:00	4131:00:00	60:45:00	92.28	91.56	25534:36:00	375:30:32	91.95	91.45	4131.00	66.94	60.75
14	Koppa	37	37	3636	219:08:00	3237:20:00	741:48:00	877:38:00	1619:26:00	1838:34:00	49:41:28	93.92	93.10	21375:20:00	577:42:42	88.84	86.85	1838.57	98.27	49.69
	<b>Total</b>	<b>693</b>	<b>693</b>	<b>48767</b>	<b>3457:13:00</b>	<b>32491:39:00</b>	<b>17134:29:00</b>	<b>12402:37:00</b>	<b>29537:06:00</b>	<b>32994:19:00</b>	<b>47:36:39</b>	<b>94.08</b>	<b>93.39</b>	<b>284335:02:59</b>	<b>410:17:45</b>	<b>91.73</b>	<b>90.66</b>	<b>32994.32</b>	<b>70.37</b>	<b>47.61</b>

Excluding IP feeders

In Shivamogga MF13 - Nellisera Camp idle charged, Aladahalli feeder cable fault so not considered. In Sagara division, Rippenpete and Aduvalli feeders are idle. In Puttur division Campco, Mukve,Perlampady are idle charged .

\* 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 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]

Superintending Engineer(Ele)(Tech)  
MESCOM,Mangaluru

## MANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

Annex- III

FORM-III

### RELIABILITY INDICES FOR EIP FEEDERS IN MESCOM FOR THE MONTH OF SEPTEMBER-2022

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-23	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-23	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)
8	Shivamogga	25	25	2602	92:07:00	413:57:00	5133:39:00	664:41:00	5798:20:00	5890:27:00	235:37:05	67.79	67.28	34280:13:32	1371:12:32	69.16	68.78	5890.45	104.08	235.62
9	Bhadravathi	25	25	2419	190:45:00	903:39:00	7290:27:00	1539:30:00	8829:57:00	9020:42:00	360:49:41	50.94	49.89	55437:11:00	2217:29:14	50.33	49.51	9020.70	96.76	360.83
10	Sagar	18	18	1460	28:40:00	224:15:00	2822:35:00	519:50:00	3342:25:00	3371:05:00	187:16:57	74.21	73.99	28638:10:00	1591:00:33	68.29	63.77	3371.08	81.11	187.28
11	Shikaripura	92	92	9774	306:31:00	3376:55:00	38700:13:00	4219:58:00	42920:11:00	43226:42:00	469:51:20	35.21	34.74	266955:36:00	2901:41:29	34.77	33.93	43226.70	106.24	469.86
13	Kadur	129	129	16094	569:50:00	1980:21:00	27189:42:00	5651:54:00	32841:36:00	33411:26:00	259:00:12	64.64	64.03	217598:40:00	1686:48:41	61.94	61.59	33411.43	124.76	259.00
	<b>Total</b>	<b>289</b>	<b>289</b>	<b>32349</b>	<b>1187:53:00</b>	<b>6899:07:00</b>	<b>81136:36:00</b>	<b>12595:53:00</b>	<b>93732:29:00</b>	<b>94920:22:00</b>	<b>328:26:39</b>	<b>54.95</b>	<b>54.38</b>	<b>602909:50:32</b>	<b>2086:11:36</b>	<b>53.04</b>	<b>52.50</b>	<b>94920.37</b>	<b>111.93</b>	<b>328.44</b>

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

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

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

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