

MANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

Annex- I

FORM-1

RELIABILITY INDICES FOR DISTRICT HEAD QUARTERS IN MESCOM FOR THE MONTH OCTOBER-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	1320	31:43:00	813:10:00	318:32:00	90:43:00	409:15:00	440:58:00	4:53:59	99.39	99.34	5390:24:00	59:53:36	99.01	98.83	440.97	14.67	4.90
2	Kavoor	36	36	808	74:32:00	794:18:00	121:47:00	59:26:00	181:13:00	255:45:00	7:06:15	99.32	99.05	3884:00:00	107:53:20	98.33	97.90	255.75	22.44	7.10
3	Udupi	36	36	811	147:52:00	5614:07:00	99:50:00	87:21:00	187:11:00	335:03:00	9:18:25	99.30	98.75	8219:25:00	228:19:02	98.59	95.55	335.05	22.53	9.31
4	Shivamogga	42	42	768	17:30:00	300:22:00	130:25:00	73:23:00	203:48:00	221:18:00	5:16:09	99.35	99.29	5458:28:00	129:57:49	97.61	97.47	221.30	18.29	5.27
5	Chikkamagaluru	8	8	219	2:12:00	5:12:00	42:05:00	20:15:00	62:20:00	64:32:00	8:04:00	98.95	98.92	696:12:00	87:01:30	98.32	98.31	64.53	27.38	8.07
	Total	212	212	3926	273:49:00	7527:09:00	712:39:00	331:08:00	1043:47:00	1317:36:00	6:12:54	99.34	99.16	23648:29:00	111:32:58	98.52	97.83	1317.60	18.52	6.22

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

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

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

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

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 OCTOBER-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	Moodabidre	8	8	287	24:16:00	75:16:00	79:26:00	28:24:00	107:50:00	132:06:00	16:30:45	98.19	97.78	1491:38:00	186:27:15	96.55	96.37	132.10	35.88	16.51
2	Bantwal	9	9	581	37:40:00	147:52:00	56:04:00	105:49:00	161:53:00	199:33:00	22:10:20	97.58	97.02	1156:36:00	128:30:40	97.82	97.50	199.55	64.56	22.17
3	Belthangadi	2	2	163	0:30:00	2:20:00	35:10:00	12:22:00	47:32:00	48:02:00	24:01:00	96.81	96.77	347:04:00	173:32:00	96.64	96.62	48.03	81.50	24.02
4	Puttur	12	12	689	25:06:00	166:45:00	167:00:00	105:00:00	272:00:00	297:06:00	24:45:30	96.95	96.67	2651:44:00	220:58:40	95.97	95.70	297.10	57.42	24.76
5	Kadaba	2	2	233	36:32:00	473:06:00	12:13:00	46:23:00	58:36:00	95:08:00	47:34:00	96.06	93.61	948:00:00	474:00:00	95.38	90.77	95.13	116.50	47.57
6	Sullia	4	4	374	77:40:00	1010:15:00	36:20:00	28:30:00	64:50:00	142:30:00	35:37:30	97.82	95.21	1830:50:00	457:42:30	96.01	91.09	142.50	93.50	35.63
7	Karkala	5	5	181	0:00:00	22:46:00	39:27:00	35:07:00	74:34:00	74:34:00	14:54:48	98.00	98.00	1744:06:00	348:49:12	93.30	93.21	74.57	36.20	14.91
8	Kaup	3	3	219	6:24:00	343:34:00	20:34:00	23:03:00	43:37:00	50:01:00	16:40:20	98.05	97.76	845:10:00	281:43:20	96.74	94.51	50.02	73.00	16.67
9	Kundapura	5	5	131	26:51:00	162:10:00	26:25:00	14:04:00	40:29:00	67:20:00	13:28:00	98.91	98.19	731:36:00	146:19:12	97.78	97.15	67.33	26.20	13.47
10	Bhadravathi	27	27	539	20:15:00	284:45:00	487:25:00	69:42:00	557:07:00	577:22:00	21:23:02	97.23	97.13	4394:26:00	162:45:24	97.04	96.83	577.37	19.96	21.38
11	Thirthahalli	3	3	24	0:00:00	13:45:00	4:45:00	1:55:00	6:40:00	6:40:00	2:13:20	99.70	99.70	152:15:00	50:45:00	99.10	99.01	6.67	8.00	2.22
12	Soraba	1	1	33	0:00:00	13:30:00	14:50:00	1:20:00	16:10:00	16:10:00	16:10:00	97.83	97.83	342:10:00	342:10:00	93.60	93.34	16.17	33.00	16.17
13	Hosnagara	1	1	42	11:35:00	171:45:00	7:20:00	4:40:00	12:00:00	23:35:00	23:35:00	98.39	96.83	322:45:00	322:45:00	97.06	93.72	23.58	42.00	23.58
14	Sagar	7	7	204	7:50:00	45:10:00	50:40:00	20:15:00	70:55:00	78:45:00	11:15:00	98.64	98.49	1451:55:00	207:25:00	96.09	95.96	78.75	29.14	11.25
15	Jog	3	3	52	9:30:00	48:00:00	2:40:00	4:50:00	7:30:00	17:00:00	5:40:00	99.66	99.24	399:30:00	133:10:00	97.72	97.41	17.00	17.33	5.67
16	Shikaripura	7	7	144	28:35:00	254:05:00	24:10:00	11:15:00	35:25:00	64:00:00	9:08:34	99.32	98.77	729:30:00	104:12:51	98.68	97.97	64.00	20.57	9.14
17	Shiralkoppa	1	1	43	2:20:00	31:50:00	6:05:00	1:40:00	7:45:00	10:05:00	10:05:00	98.96	98.64	162:00:00	162:00:00	97.47	96.85	10.08	43.00	10.08
18	Anavatti	2	2	93	6:30:00	81:05:00	21:15:00	4:40:00	25:55:00	32:25:00	16:12:30	98.26	97.82	900:10:00	450:05:00	92.03	91.24	32.42	46.50	16.21
19	Mudigere	1	1	61	2:30:00	55:20:00	6:30:00	6:35:00	13:05:00	15:35:00	15:35:00	98.24	97.91	277:40:00	277:40:00	95.67	94.59	15.58	61.00	15.58
20	Koppa	1	1	45	10:55:00	71:15:00	3:40:00	1:40:00	5:20:00	16:15:00	16:15:00	99.28	97.82	249:35:00	249:35:00	96.53	95.14	16.25	45.00	16.25
21	Sringeri	1	1	57	25:00:00	245:07:00	4:21:00	1:45:00	6:06:00	31:06:00	31:06:00	99.18	95.82	347:58:00	347:58:00	98.00	93.22	31.10	57.00	31.10
22	N.R.Pura	1	1	187	7:25:00	32:35:00	24:45:00	21:35:00	46:20:00	53:45:00	53:45:00	93.77	92.78	454:40:00	454:40:00	91.78	91.15	53.75	187.00	53.75
23	Kadur	2	2	125	0:00:00	15:31:00	20:45:00	7:57:00	28:42:00	28:42:00	14:21:00	98.07	98.07	245:59:00	122:59:30	97.76	97.61	28.70	62.50	14.35
24	Tharikere	2	2	115	8:20:00	85:30:00	28:45:00	15:25:00	44:10:00	52:30:00	26:15:00	97.03	96.47	454:10:00	227:05:00	96.41	95.58	52.50	57.50	26.25
25	Birur	1	1	34	0:00:00	16:50:00	4:20:00	1:25:00	5:45:00	5:45:00	5:45:00	99.23	99.23	154:00:00	154:00:00	97.33	97.00	5.75	34.00	5.75
	Total	111	111	4656	375:44:00	3870:07:00	1184:55:00	575:21:00	1760:16:00	2136:00:00	19:14:36	97.87	97.41	22785:27:00	205:16:28	96.68	96.00	2136.00	41.95	19.24

* 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 IN MESCOM FOR THE MONTH OF OCTOBER-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	435	5:06:00	99:23:00	91:15:00	44:10:00	135:25:00	140:31:00	15:36:47	97.98	97.90	1662:22:00	184:42:27	96.62	96.40	140.52	48.33	15.61
2	Kavoor	30	30	1133	46:29:00	235:02:00	250:57:00	111:53:00	362:50:00	409:19:00	13:38:38	98.37	98.17	4319:37:00	143:59:14	97.35	97.20	409.32	37.77	13.64
3	Puttur	59	59	5635	630:38:00	7956:30:00	631:35:00	888:19:00	1519:54:00	2150:32:00	36:26:59	96.54	95.10	26245:45:00	444:50:36	93.96	91.34	2150.53	95.51	36.45
4	Bantwal	93	93	7140	423:47:00	4611:43:00	1107:53:00	1173:28:00	2281:21:00	2705:08:00	29:05:15	96.70	96.09	25389:53:00	273:00:34	95.65	94.68	2705.13	76.77	29.09
5	Udupi	45	45	1462	44:11:00	3268:09:00	334:37:00	166:19:00	500:56:00	545:07:00	12:06:49	98.50	98.37	11828:26:00	262:51:15	96.30	94.88	545.12	32.49	12.11
6	Karkala	30	30	1473	10:40:00	577:58:00	210:01:00	244:25:00	454:26:00	465:06:00	15:30:12	97.96	97.92	6947:34:00	231:35:08	95.87	95.49	465.10	49.10	15.50
7	Kundapura	60	60	2517	301:12:00	2662:03:00	452:03:00	330:39:00	782:42:00	1083:54:00	18:03:54	98.25	97.57	15368:07:31	256:08:08	95.88	95.01	1083.90	41.95	18.07
8	Shivamogga	71	71	3561	251:45:00	1010:00:00	636:54:00	804:48:00	1441:42:00	1693:27:00	23:51:05	97.27	96.79	26258:05:28	369:49:56	93.08	92.80	1693.45	50.15	23.85
9	Bhadravathi	21	21	1189	99:25:00	733:21:00	945:15:00	971:39:00	1916:54:00	2016:19:00	96:00:54	87.73	87.09	12600:22:00	600:01:03	89.00	88.32	2016.32	56.62	96.02
10	Sagar	74	74	4264	326:15:00	4580:15:00	2118:50:00	1873:40:00	3992:30:00	4318:45:00	58:21:41	92.75	92.16	46188:00:00	624:09:44	91.34	87.85	4318.75	57.62	58.36
11	Shikaripura	54	54	3646	153:36:00	2342:04:00	2386:21:00	2053:59:00	4440:20:00	4593:56:00	85:04:22	88.95	88.57	43287:27:00	801:37:10	85.24	84.39	4593.93	67.52	85.07
12	Chikkamagaluru	49	49	4574	45:21:00	2009:26:00	1861:15:00	1745:51:00	3607:06:00	3652:27:00	74:32:23	90.11	89.98	41103:59:00	838:51:24	84.47	83.67	3652.45	93.35	74.54
13	Kadur	67	67	4104	153:15:00	1660:05:00	1463:19:00	928:10:00	2391:29:00	2544:44:00	37:58:52	95.20	94.90	28079:20:00	419:05:40	92.32	91.84	2544.73	61.25	37.98
14	Koppa	37	37	3526	310:18:00	3547:38:00	604:51:00	843:09:00	1448:00:00	1758:18:00	47:31:18	94.74	93.61	23133:38:00	625:14:00	89.69	87.83	1758.30	95.30	47.52
	Total	699	699	44659	2801:58:00	35293:37:00	13095:06:00	12180:29:00	25275:35:00	28077:33:00	40:10:05	95.14	94.60	312412:35:59	446:56:32	92.28	91.30	28077.55	63.89	40.17

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

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

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

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 OCTOBER-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	2799	256:50:00	670:47:00	5015:11:00	717:41:00	5732:52:00	5989:42:00	239:35:17	69.18	67.80	40269:55:32	1610:47:49	69.16	68.64	5989.70	111.96	239.59
9	Bhadravathi	25	25	2419	154:50:00	1058:29:00	7308:25:00	1859:17:00	9167:42:00	9322:32:00	372:54:05	50.71	49.88	64759:43:00	2590:23:19	50.39	49.56	9322.53	96.76	372.90
10	Sagar	18	18	1459	21:10:00	245:25:00	2117:15:00	583:00:00	2700:15:00	2721:25:00	151:11:23	79.84	79.68	31359:35:00	1742:11:57	72.88	66.08	2721.42	81.06	151.19
11	Shikaripura	92	92	9740	287:00:00	3663:55:00	40069:16:00	5866:42:00	45935:58:00	46222:58:00	502:25:25	32.89	32.47	313178:34:00	3404:06:53	34.50	33.72	46222.97	105.87	502.42
13	Kadur	130	130	16043	254:35:00	2234:56:00	25591:20:00	5797:34:00	31388:54:00	31643:29:00	243:24:41	67.55	67.28	249242:09:00	1917:14:50	63.01	62.67	31643.48	123.41	243.41
	Total	290	290	32460	974:25:00	7873:32:00	80101:27:00	14824:14:00	94925:41:00	95900:06:00	330:41:24	56.00	55.55	698809:56:32	2409:41:22	53.61	53.08	95900.10	111.93	330.69

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

Superintending Engineer(Ele)(Tech)
MESCOM,Mangaluru