

MANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

Annex- I

FORM-1

RELIABILITY INDICES FOR DISTRICT HEAD QUARTERS IN MESCOM FOR THE MONTH DECEMBER-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	1410	75:42:00	977:24:00	299:30:00	118:00:00	417:30:00	493:12:00	5:28:48	99.38	99.26	6615:27:00	73:30:18	99.05	98.89	493.20	15.67	5.48
2	Kavoor	36	36	624	11:24:00	927:55:00	319:58:00	36:56:00	356:54:00	368:18:00	10:13:50	98.67	98.62	4713:31:00	130:55:52	98.41	98.02	368.30	17.33	10.23
3	Udupi	37	37	1091	203:37:00	5959:42:00	221:29:00	73:11:00	294:40:00	498:17:00	13:28:02	98.93	98.19	9132:04:00	246:48:45	98.70	96.26	498.28	29.49	13.47
4	Shivamogga	43	43	777	10:30:00	321:57:00	752:12:00	58:15:00	810:27:00	820:57:00	19:05:31	97.47	97.43	6553:10:00	152:23:57	97.80	97.69	820.95	18.07	19.09
5	Chikkamagaluru	8	8	231	8:24:00	40:12:00	81:07:00	11:05:00	92:12:00	100:36:00	12:34:30	98.45	98.31	910:11:00	113:46:22	98.35	98.28	100.60	28.88	12.58
	Total	213	213	4133	309:37:00	8227:10:00	1674:16:00	297:27:00	1971:43:00	2281:20:00	10:42:38	98.76	98.56	27924:23:00	131:06:01	98.60	98.01	2281.33	19.40	10.71

In Udupi division MIT campus feeder is idle charged.

* 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- II

FORM-II

RELIABILITY INDICES FOR TOWN & CITIES IN MESCOM FOR THE MONTH OF DECEMBER-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	267	0:00:00	86:32:00	65:49:00	18:28:00	84:17:00	84:17:00	10:32:07	98.58	98.58	1803:09:00	225:23:37	96.75	96.58	84.28	33.38	10.54
2	Bantwal	9	9	438	5:40:00	170:12:00	50:00:00	24:17:00	74:17:00	79:57:00	8:53:00	98.89	98.81	1339:10:00	148:47:47	98.03	97.75	79.95	48.67	8.88
3	Belthangadi	2	2	110	2:03:00	24:13:00	11:22:00	8:29:00	19:51:00	21:54:00	10:57:00	98.67	98.53	416:48:00	208:24:00	97.03	96.84	21.90	55.00	10.95
4	Puttur	12	12	574	20:06:00	211:26:00	155:03:00	46:53:00	201:56:00	222:02:00	18:30:10	97.74	97.51	3106:19:00	258:51:35	96.34	96.08	222.03	47.83	18.50
5	Kadaba	2	2	138	28:12:00	553:56:00	6:20:00	11:40:00	18:00:00	46:12:00	23:06:00	98.79	96.90	1091:36:00	545:48:00	95.93	91.73	46.20	69.00	23.10
6	Sullia	4	4	299	104:20:00	1198:35:00	36:20:00	10:20:00	46:40:00	151:00:00	37:45:00	98.43	94.93	2126:40:00	531:40:00	96.48	91.94	151.00	74.75	37.75
7	Karkala	5	5	147	0:00:00	22:46:00	53:07:00	8:01:00	61:08:00	61:08:00	12:13:36	98.36	98.36	1892:25:00	378:29:00	94.33	94.27	61.13	29.40	12.23
8	Kaup	3	3	168	28:51:00	440:31:00	17:31:00	11:24:00	28:55:00	57:46:00	19:15:20	98.70	97.41	1013:51:00	337:57:00	97.10	94.88	57.77	56.00	19.26
9	Kundapura	5	5	105	14:01:00	235:43:00	40:03:00	5:04:00	45:07:00	59:08:00	11:49:36	98.79	98.41	893:51:00	178:46:12	98.01	97.29	59.13	21.00	11.83
10	Bhadravathi	27	27	430	110:47:00	440:01:00	239:47:00	45:25:00	285:12:00	395:59:00	14:39:58	98.58	98.03	5104:09:00	189:02:33	97.38	97.14	395.98	15.93	14.67
11	Thirthahalli	3	3	49	2:45:00	16:45:00	31:25:00	0:45:00	32:10:00	34:55:00	11:38:20	98.56	98.44	203:20:00	67:46:40	99.06	98.97	34.92	16.33	11.64
12	Soraba	2	2	88	0:00:00	13:40:00	40:40:00	7:50:00	48:30:00	48:30:00	24:15:00	96.74	96.74	739:20:00	369:40:00	94.50	94.40	48.50	44.00	24.25
13	Hosnagara	1	1	45	21:00:00	211:20:00	3:40:00	13:55:00	17:35:00	38:35:00	38:35:00	97.64	94.81	395:15:00	395:15:00	97.21	94.01	38.58	45.00	38.58
14	Sagar	7	7	203	0:00:00	45:10:00	125:15:00	15:05:00	140:20:00	140:20:00	20:02:51	97.31	97.31	1647:30:00	235:21:26	96.53	96.43	140.33	29.00	20.05
15	Jog	3	3	34	0:00:00	48:00:00	28:15:00	9:00:00	37:15:00	37:15:00	12:25:00	98.33	98.33	446:40:00	148:53:20	97.99	97.74	37.25	11.33	12.42
16	Shikaripura	7	7	135	12:25:00	289:25:00	47:55:00	14:55:00	62:50:00	75:15:00	10:45:00	98.79	98.56	852:45:00	121:49:17	98.78	98.15	75.25	19.29	10.75
17	Shiralkoppa	1	1	27	18:35:00	52:50:00	20:55:00	1:25:00	22:20:00	40:55:00	40:55:00	97.00	94.50	216:10:00	216:10:00	97.53	96.72	40.92	27.00	40.92
18	Anavatti	2	2	105	6:35:00	103:25:00	28:10:00	4:00:00	32:10:00	38:45:00	19:22:30	97.84	97.40	996:55:00	498:27:30	93.23	92.45	38.75	52.50	19.38
19	Mudigere	1	1	44	8:45:00	74:25:00	6:10:00	1:40:00	7:50:00	16:35:00	16:35:00	98.95	97.77	319:50:00	319:50:00	96.28	95.15	16.58	44.00	16.58
20	Koppa	1	1	49	3:30:00	85:10:00	5:30:00	3:10:00	8:40:00	12:10:00	12:10:00	98.84	98.36	279:15:00	279:15:00	97.06	95.77	12.17	49.00	12.17
21	Sringeri	1	1	97	19:35:00	299:15:00	10:45:00	3:19:00	14:04:00	33:39:00	33:39:00	98.11	95.48	421:32:00	421:32:00	98.15	93.61	33.65	97.00	33.65
22	N.R.Pura	1	1	106	8:25:00	45:45:00	17:20:00	7:45:00	25:05:00	33:30:00	33:30:00	96.63	95.50	519:25:00	519:25:00	92.82	92.13	33.50	106.00	33.50
23	Kadur	2	2	149	2:30:00	18:01:00	12:03:00	27:39:00	39:42:00	42:12:00	21:06:00	97.33	97.16	314:04:00	157:02:00	97.76	97.62	42.20	74.50	21.10
24	Tharikere	2	2	148	7:30:00	98:30:00	71:55:00	10:15:00	82:10:00	89:40:00	44:50:00	94.48	93.97	586:20:00	293:10:00	96.30	95.56	89.67	74.00	44.83
25	Birur	1	1	75	11:10:00	30:45:00	5:15:00	5:45:00	11:00:00	22:10:00	22:10:00	98.52	97.02	191:50:00	191:50:00	97.56	97.09	22.17	75.00	22.17
	Total	112	112	4030	436:45:00	4816:21:00	1130:35:00	316:29:00	1447:04:00	1883:49:00	16:49:11	98.26	97.74	26918:09:00	240:20:26	97.01	96.36	1883.82	35.98	16.82

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

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

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

Superintending Engineer(Ele)(Tech)
MESCOM,Mangaluru

MANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

Annex- III(A)

FORM-III(A)

RELIABILITY INDICES FOR RURAL AREAS (EXCLUDING EIP FEEDERS) IN MESCOM FOR THE MONTH OF DECEMBER-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	579	23:28:00	267:29:00	132:11:00	49:21:00	181:32:00	205:00:00	22:46:40	97.29	96.94	2096:42:00	232:58:00	96.92	96.47	205.00	64.33	22.78
2	Kavoor	30	30	1111	0:00:00	265:49:00	179:51:00	99:33:00	279:24:00	279:24:00	9:18:48	98.75	98.75	5065:38:00	168:51:16	97.58	97.44	279.40	37.03	9.31
3	Puttur	61	61	4513	616:37:00	9357:44:00	770:16:00	559:40:00	1329:56:00	1946:33:00	31:54:38	97.07	95.71	30383:44:00	498:05:38	94.78	92.45	1946.55	73.98	31.91
4	Bantwal	93	93	5100	202:36:00	5192:10:00	910:15:00	1492:34:00	2402:49:00	2605:25:00	28:00:55	96.53	96.23	31360:47:00	337:12:46	95.74	94.89	2605.42	54.84	28.02
5	Udupi	46	46	1743	398:48:00	5191:11:00	378:35:00	167:10:00	545:45:00	944:33:00	20:32:01	98.41	97.24	14997:48:00	326:02:21	96.77	95.06	944.55	37.89	20.53
6	Karkala	30	30	1047	0:40:00	660:14:00	289:03:00	83:06:00	372:09:00	372:49:00	12:25:38	98.33	98.33	7761:29:00	258:42:58	96.41	96.08	372.82	34.90	12.43
7	Kundapura	61	61	3183	353:52:00	4088:54:00	1247:04:00	333:01:00	1580:05:00	1933:57:00	31:42:15	96.52	95.74	19508:34:31	319:48:46	96.17	95.15	1933.95	52.18	31.70
8	Shivamogga	71	71	3614	124:26:00	1203:27:00	1277:29:00	695:20:00	1972:49:00	2097:15:00	29:32:19	96.27	96.03	29924:28:28	421:28:17	93.87	93.61	2097.25	50.90	29.54
9	Bhadravathi	21	21	1138	122:38:00	934:43:00	527:16:00	882:52:00	1410:08:00	1532:46:00	72:59:20	90.97	90.19	16368:09:00	779:26:09	88.86	88.19	1532.77	54.19	72.99
10	Sagar	75	75	4328	472:45:00	5425:55:00	4649:15:00	1204:30:00	5853:45:00	6326:30:00	84:21:12	89.51	88.66	58013:15:00	773:30:36	93.35	88.28	6326.50	57.71	84.35
11	Shikaripura	54	54	4187	211:48:00	2889:38:00	8880:09:00	946:46:00	9826:55:00	10038:43:00	185:54:08	75.54	75.01	61180:55:00	1132:58:48	83.64	82.83	10038.72	77.54	185.90
12	Chikkamagaluru	49	49	4775	309:06:00	2529:39:00	5089:35:00	868:28:00	5958:03:00	6267:09:00	127:54:04	83.66	82.81	52808:33:00	1077:43:32	84.45	83.67	6267.15	97.45	127.90
13	Kadur	68	68	4249	482:02:00	2421:42:00	2196:50:00	1230:30:00	3427:20:00	3909:22:00	57:29:26	93.23	92.27	35373:37:00	520:12:01	92.66	92.12	3909.37	62.49	57.49
14	Koppa	37	37	3329	238:55:00	4166:24:00	687:25:00	601:27:00	1288:52:00	1527:47:00	41:17:29	95.32	94.45	26158:55:00	706:59:52	90.99	89.29	1527.78	89.97	41.29
	Total	704	704	42896	3557:41:00	44594:59:00	27215:14:00	9214:18:00	36429:32:00	39987:13:00	56:48:00	93.04	92.37	391002:34:59	555:24:05	92.54	91.58	39987.22	60.93	56.80

Excluding IP feeders

Note: In Udupi division Parika feeder is idle charged. In Shivamogga division MF-18 NJY Hosalli feeder cable faulty load taken on MF-5 IP feeder which is considered as rural feeder. In Sagara division, Rippenpete and Aduvalli feeders are idle.

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

MANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

Annex- III(B)

FORM-III(B)

RELIABILITY INDICES FOR EIP FEEDERS AREAS IN MESCOM FOR THE MONTH OF DECEMBER-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	26	26	2925	19:04:00	723:04:00	6140:34:00	457:32:00	6598:06:00	6617:10:00	254:30:23	65.89	65.79	52319:39:32	2012:17:40	69.93	69.51	6617.17	112.50	254.51
9	Bhadravathi	26	26	3081	133:32:00	1299:20:00	7847:35:00	992:23:00	8839:58:00	8973:30:00	345:08:05	54.30	53.61	82190:01:00	3161:09:16	52.86	52.10	8973.50	118.50	345.13
10	Sagar	19	19	1192	66:50:00	325:35:00	7285:35:00	355:55:00	7641:30:00	7708:20:00	405:42:06	45.94	45.47	45717:05:00	2406:09:44	80.01	63.54	7708.33	62.74	405.70
11	Shikaripura	92	92	10025	392:01:00	4470:51:00	44167:56:00	2568:53:00	46736:49:00	47128:50:00	512:16:12	31.72	31.15	405737:40:00	4410:11:31	33.92	33.18	47128.83	108.97	512.27
13	Kadur	130	130	15404	666:30:00	3511:56:00	31891:52:00	3899:27:00	35791:19:00	36457:49:00	280:26:41	62.99	62.31	319185:24:00	2455:16:20	63.21	62.80	36457.82	118.49	280.44
	Total	293	293	32627	1277:57:00	10330:46:00	97333:32:00	8274:10:00	105607:42:00	106885:39:00	364:47:51	51.55	50.97	905149:49:32	3089:14:55	53.73	53.19	106885.65	111.35	364.80

* 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