

MANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

Annex- I

FORM-1

RELIABILITY INDICES FOR DISTRICT HEAD QUARTERS IN MESCOM FOR THE MONTH JANUARY-2023

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	1173	70:33:00	1047:57:00	391:49:00	90:47:00	482:36:00	553:09:00	6:08:46	99.28	99.17	7168:36:00	79:39:04	98.97	98.79	553.15	13.03	6.15
2	Kavoor	36	36	733	16:12:00	944:07:00	166:56:00	48:37:00	215:33:00	231:45:00	6:26:15	99.20	99.13	4945:16:00	137:22:07	98.32	97.92	231.75	20.36	6.44
3	Udupi	37	37	746	356:21:00	6316:03:00	85:24:00	43:22:00	128:46:00	485:07:00	13:06:41	99.53	98.24	9617:11:00	259:55:26	98.65	96.06	485.12	20.16	13.11
4	Shivamogga	44	44	613	58:22:00	380:19:00	289:54:00	43:51:00	333:45:00	392:07:00	8:54:42	98.98	98.80	6945:17:00	157:50:50	97.74	97.61	392.12	13.93	8.91
5	Chikkamagaluru	8	8	262	4:20:00	44:32:00	503:30:00	7:05:00	510:35:00	514:55:00	64:21:53	91.42	91.35	1425:06:00	178:08:15	97.39	97.30	514.92	32.75	64.36
	Total	215	215	3527	505:48:00	8732:58:00	1437:33:00	233:42:00	1671:15:00	2177:03:00	10:07:33	98.96	98.64	30101:26:00	140:00:24	98.49	97.88	2177.05	16.40	10.13

* 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 JANUARY-2023

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	318	2:30:00	89:02:00	105:26:00	16:21:00	121:47:00	124:17:00	15:32:08	97.95	97.91	1927:26:00	240:55:45	96.52	96.35	124.28	39.75	15.54
2	Bantwal	9	9	392	33:20:00	203:32:00	36:42:00	19:04:00	55:46:00	89:06:00	9:54:00	99.17	98.67	1428:16:00	158:41:47	97.94	97.60	89.10	43.56	9.90
3	Belthangadi	2	2	154	14:55:00	39:08:00	21:12:00	32:09:00	53:21:00	68:16:00	34:08:00	96.41	95.41	485:04:00	242:32:00	96.62	96.33	68.27	77.00	34.13
4	Puttur	11	11	484	16:41:00	228:07:00	110:12:00	41:15:00	151:27:00	168:08:00	15:17:05	98.15	97.95	3274:27:00	297:40:38	95.80	95.49	168.13	44.00	15.28
5	Kadaba	2	2	121	32:22:00	586:18:00	9:34:00	7:13:00	16:47:00	49:09:00	24:34:30	98.87	96.70	1140:45:00	570:22:30	95.80	91.36	49.15	60.50	24.58
6	Sullia	4	4	319	64:40:00	1263:15:00	49:25:00	13:05:00	62:30:00	127:10:00	31:47:30	97.90	95.73	2253:50:00	563:27:30	96.25	91.46	127.17	79.75	31.79
7	Karkala	5	5	133	0:00:00	22:46:00	50:59:00	5:15:00	56:14:00	56:14:00	11:14:48	98.49	98.49	1948:39:00	389:43:48	94.16	94.10	56.23	26.60	11.25
8	Kaup	3	3	134	47:00:00	487:31:00	18:15:00	3:46:00	22:01:00	69:01:00	23:00:20	99.01	96.91	1082:52:00	360:57:20	96.99	94.53	69.02	44.67	23.01
9	Kundapura	5	5	138	15:49:00	251:32:00	38:54:00	6:06:00	45:00:00	60:49:00	12:09:48	98.79	98.37	954:40:00	190:56:00	97.87	97.11	60.82	27.60	12.16
10	Bhadravathi	27	27	498	111:04:00	551:05:00	827:03:00	86:06:00	913:09:00	1024:13:00	37:56:02	95.45	94.90	6128:22:00	226:58:36	96.87	96.56	1024.22	18.44	37.93
11	Thirthahalli	3	3	48	4:30:00	21:15:00	8:00:00	1:40:00	9:40:00	14:10:00	4:43:20	99.57	99.37	217:30:00	72:30:00	99.01	98.90	14.17	16.00	4.72
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	787:50:00	393:55:00	94.14	94.03	48.50	44.00	24.25
13	Hosnagara	1	1	45	21:00:00	232:20:00	3:40:00	13:55:00	17:35:00	38:35:00	38:35:00	97.64	94.81	433:50:00	433:50:00	96.95	93.43	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	1787:50:00	255:24:17	96.23	96.13	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	483:55:00	161:18:20	97.80	97.56	37.25	11.33	12.42
16	Shikaripura	7	7	155	30:55:00	320:20:00	57:55:00	23:25:00	81:20:00	112:15:00	16:02:09	98.44	97.84	965:00:00	137:51:26	98.60	97.91	112.25	22.14	16.04
17	Shiralkoppa	1	1	35	3:45:00	56:35:00	2:55:00	2:30:00	5:25:00	9:10:00	9:10:00	99.27	98.77	225:20:00	225:20:00	97.44	96.59	9.17	35.00	9.17
18	Anavatti	2	2	89	15:40:00	119:05:00	21:30:00	0:55:00	22:25:00	38:05:00	19:02:30	98.49	97.44	1035:00:00	517:30:00	93.06	92.16	38.08	44.50	19.04
19	Mudigere	1	1	36	10:21:00	84:46:00	5:40:00	4:10:00	9:50:00	20:11:00	20:11:00	98.68	97.29	340:01:00	340:01:00	96.13	94.85	20.18	36.00	20.18
20	Koppa	1	1	63	6:05:00	91:15:00	12:30:00	3:00:00	15:30:00	21:35:00	21:35:00	97.92	97.10	300:50:00	300:50:00	96.82	95.44	21.58	63.00	21.58
21	Sringeri	1	1	37	13:25:00	312:40:00	1:41:00	1:47:00	3:28:00	16:53:00	16:53:00	99.53	97.73	438:25:00	438:25:00	98.09	93.36	16.88	37.00	16.88
22	N.R.Pura	1	1	122	2:50:00	48:35:00	18:30:00	4:30:00	23:00:00	25:50:00	25:50:00	96.91	96.53	545:15:00	545:15:00	92.47	91.74	25.83	122.00	25.83
23	Kadur	2	2	82	0:30:00	18:31:00	3:47:00	10:12:00	13:59:00	14:29:00	7:14:30	99.06	99.03	328:33:00	164:16:30	97.65	97.51	14.48	41.00	7.24
24	Tharikere	2	2	160	0:10:00	98:40:00	52:30:00	4:15:00	56:45:00	56:55:00	28:27:30	96.19	96.17	643:15:00	321:37:30	95.87	95.13	56.92	80.00	28.46
25	Birur	1	1	36	0:30:00	31:15:00	7:10:00	2:10:00	9:20:00	9:50:00	9:50:00	98.75	98.68	201:40:00	201:40:00	97.42	96.94	9.83	36.00	9.83
	Total	111	111	3924	448:02:00	5264:23:00	1657:40:00	334:44:00	1992:24:00	2440:26:00	21:59:09	97.59	97.04	29358:35:00	264:29:30	96.71	95.99	2440.43	35.35	21.99

In 110/33/11KV MUSS the Campco Urban feeder load shifted to Shanthigodu feeder

* 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 JANUARY-2023

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	10	10	426	23:54:00	291:23:00	96:25:00	24:22:00	120:47:00	144:41:00	14:28:06	98.38	98.06	2241:23:00	224:08:18	97.05	96.60	144.68	42.60	14.47
2	Kavoor	30	30	1260	7:23:00	273:12:00	323:41:00	140:02:00	463:43:00	471:06:00	15:42:12	97.92	97.89	5536:44:00	184:33:28	97.34	97.20	471.10	42.00	15.70
3	Puttur	61	61	4223	481:13:00	9838:57:00	685:52:00	405:44:00	1091:36:00	1572:49:00	25:47:02	97.59	96.53	31956:33:00	523:52:40	94.51	92.06	1572.82	69.23	25.78
4	Bantwal	93	93	5906	323:39:00	5515:49:00	1730:30:00	735:30:00	2466:00:00	2789:39:00	29:59:46	96.44	95.97	34150:26:00	367:12:32	95.33	94.44	2789.65	63.51	30.00
5	Udupi	46	46	1386	80:16:00	5271:27:00	285:03:00	167:33:00	452:36:00	532:52:00	11:35:03	98.68	98.44	15530:40:00	337:37:23	96.62	94.88	532.87	30.13	11.58
6	Karkala	30	30	1046	54:40:00	714:54:00	376:49:00	73:02:00	449:51:00	504:31:00	16:49:02	97.98	97.74	8266:00:00	275:32:00	96.19	95.83	504.52	34.87	16.82
7	Kundapura	61	61	2971	301:15:00	4390:09:00	1482:38:00	203:39:00	1686:17:00	1987:32:00	32:34:57	96.28	95.62	21496:06:31	352:23:43	95.75	94.66	1987.53	48.70	32.58
8	Shivamogga	71	71	3576	226:41:00	1430:08:00	1546:40:00	362:38:00	1909:18:00	2135:59:00	30:05:03	96.39	95.96	32060:27:28	451:33:21	93.46	93.16	2135.98	50.37	30.08
9	Bhadravathi	21	21	1067	152:26:00	1087:09:00	343:35:00	829:54:00	1173:29:00	1325:55:00	63:08:20	92.49	91.51	17694:04:00	842:34:29	88.02	87.23	1325.92	50.81	63.14
10	Sagar	75	75	4359	474:35:00	5900:30:00	4649:15:00	1159:15:00	5808:30:00	6283:05:00	83:46:28	89.59	88.74	64296:20:00	857:17:04	93.35	87.01	6283.08	58.12	83.77
11	Shikaripura	60	60	4750	361:04:00	3250:42:00	12197:20:00	836:19:00	13033:39:00	13394:43:00	223:14:43	70.80	69.99	74575:38:00	1242:55:38	81.99	81.17	13394.72	79.17	223.25
12	Chikkamagaluru	48	48	4473	208:45:00	2738:24:00	4092:08:00	507:34:00	4599:42:00	4808:27:00	100:10:34	87.12	86.54	57617:00:00	1200:21:15	82.68	81.81	4808.45	93.19	100.18
13	Kadur	68	68	4044	215:55:00	2637:37:00	3174:15:00	576:40:00	3750:55:00	3966:50:00	58:20:09	92.59	92.16	39340:27:00	578:32:10	91.82	91.23	3966.83	59.47	58.34
14	Koppa	37	37	3343	288:04:00	4454:28:00	739:19:00	338:34:00	1077:53:00	1365:57:00	36:55:03	96.08	95.04	27524:52:00	743:54:55	90.55	88.73	1365.95	90.35	36.92
	Total	711	711	42830	3199:50:00	47794:49:00	31723:30:00	6360:46:00	38084:16:00	41284:06:00	58:03:53	92.80	92.20	432286:40:59	607:59:53	91.81	90.79	41284.10	60.24	58.06

Excluding IP feeders

Note: In Shivamogga division MF-18 NJY Hosalli feeder cable faulty load taken on MF-5 IP feeder which is considered as rural feeder, KIADB-1 feeder faulty. In Sagara division, Rippenpete and Aduvalli feeders are idle. In chikkamagaluru Division Gowdalli feeder cable fault

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

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 JANUARY-2023

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	3040	54:16:00	777:20:00	6216:40:00	267:31:00	6484:11:00	6538:27:00	251:28:44	66.48	66.20	58858:06:32	2263:46:24	66.15	65.70	6538.45	116.92	251.48
9	Bhadravathi	26	26	2935	232:08:00	1531:28:00	9774:21:00	653:53:00	10428:14:00	10660:22:00	410:00:51	46.09	44.89	92850:23:00	3571:10:07	46.78	45.89	10660.37	112.88	410.01
10	Sagar	19	19	1192	66:50:00	392:25:00	7285:35:00	355:55:00	7641:30:00	7708:20:00	405:42:06	45.94	45.47	53425:25:00	2811:51:51	80.01	57.40	7708.33	62.74	405.70
11	Shikaripura	92	92	10926	421:42:00	4892:33:00	43524:34:00	1717:38:00	45242:12:00	45663:54:00	496:20:48	33.90	33.29	451401:34:00	4906:32:20	26.46	25.66	45663.90	118.76	496.35
13	Kadur	131	131	14461	256:30:00	3768:26:00	33435:55:00	1664:00:00	35099:55:00	35356:25:00	269:53:47	63.99	63.72	354541:49:00	2706:25:34	59.43	58.99	35356.42	110.39	269.90
	Total	294	294	32554	1031:26:00	11362:12:00	100237:05:00	4658:57:00	104896:02:00	105927:28:00	360:17:51	52.04	51.57	1011077:17:32	3439:02:18	48.48	47.89	105927.47	110.73	360.30

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

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

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

Superintending Engineer(Ele)(Tech)
MESCOM,Mangaluru