

# MANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

Annex- I

FORM-1

## RELIABILITY INDICES FOR DISTRICT HEAD QUARTERS IN MESCOM FOR THE MONTH FEBRUARY-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	95	95	1146	37:30:00	1085:27:00	246:21:00	106:58:00	353:19:00	390:49:00	4:06:50	99.45	99.39	7559:25:00	79:34:22	99.15	99.01	390.82	12.06	4.11
2	Kavoor	36	36	788	67:08:00	1011:15:00	218:07:00	47:16:00	265:23:00	332:31:00	9:14:12	98.90	98.63	5277:47:00	146:36:18	98.52	98.17	332.52	21.89	9.24
3	Udupi	38	38	670	197:39:00	6513:42:00	143:54:00	36:41:00	180:35:00	378:14:00	9:57:13	99.29	98.52	9995:25:00	263:02:14	98.86	96.72	378.23	17.63	9.95
4	Shivamogga	45	45	605	71:45:00	452:04:00	171:37:00	34:30:00	206:07:00	277:52:00	6:10:29	99.32	99.08	7223:09:00	160:30:52	98.12	98.00	277.87	13.44	6.17
5	Chikkamagaluru	8	8	160	0:00:00	44:32:00	44:20:00	10:40:00	55:00:00	55:00:00	6:52:30	98.98	98.98	1480:06:00	185:00:45	97.76	97.69	55.00	20.00	6.88
	<b>Total</b>	<b>222</b>	<b>222</b>	<b>3369</b>	<b>374:02:00</b>	<b>9107:00:00</b>	<b>824:19:00</b>	<b>236:05:00</b>	<b>1060:24:00</b>	<b>1434:26:00</b>	<b>6:27:41</b>	<b>99.29</b>	<b>99.04</b>	<b>31535:52:00</b>	<b>142:03:12</b>	<b>98.74</b>	<b>98.23</b>	<b>1434.43</b>	<b>15.18</b>	<b>6.46</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- II

FORM-II

## RELIABILITY INDICES FOR TOWN & CITIES IN MESCOM FOR THE MONTH OF FEBRUARY-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	239	0:00:00	89:02:00	131:28:00	21:01:00	152:29:00	152:29:00	19:03:37	97.16	97.16	2079:55:00	259:59:22	96.90	96.76	152.48	29.88	19.06
2	Bantwal	9	9	342	5:04:00	208:36:00	32:17:00	11:05:00	43:22:00	48:26:00	5:22:53	99.28	99.20	1476:42:00	164:04:40	98.24	97.95	48.43	38.00	5.38
3	Belthangadi	2	2	98	0:00:00	39:08:00	17:32:00	4:42:00	22:14:00	22:14:00	11:07:00	98.35	98.35	507:18:00	253:39:00	97.08	96.84	22.23	49.00	11.12
4	Puttur	12	12	453	10:17:00	238:24:00	84:17:00	28:00:00	112:17:00	122:34:00	10:12:50	98.61	98.48	3397:01:00	283:05:05	96.72	96.47	122.57	37.75	10.21
5	Kadaba	2	2	128	13:38:00	599:56:00	10:13:00	11:25:00	21:38:00	35:16:00	17:38:00	98.39	97.38	1176:01:00	588:00:30	96.41	92.66	35.27	64.00	17.63
6	Sullia	4	4	345	93:20:00	1356:35:00	35:30:00	15:05:00	50:35:00	143:55:00	35:58:45	98.12	94.65	2397:45:00	599:26:15	96.75	92.52	143.92	86.25	35.98
7	Karkala	5	5	91	0:00:00	22:46:00	9:53:00	5:24:00	15:17:00	15:17:00	3:03:24	99.55	99.55	1963:56:00	392:47:12	95.16	95.10	15.28	18.20	3.06
8	Kaup	3	3	196	88:33:00	576:04:00	29:32:00	16:56:00	46:28:00	135:01:00	45:00:20	97.70	93.30	1217:53:00	405:57:40	97.33	94.94	135.02	65.33	45.01
9	Kundapura	5	5	117	1:34:00	253:06:00	37:19:00	3:24:00	40:43:00	42:17:00	8:27:24	98.79	98.74	996:57:00	199:23:24	98.14	97.51	42.28	23.40	8.46
10	Bhadravathi	27	27	383	95:35:00	646:40:00	1331:01:00	40:34:00	1371:35:00	1467:10:00	54:20:22	92.44	91.91	7595:32:00	281:18:58	96.79	96.49	1467.17	14.19	54.34
11	Thirthahalli	3	3	54	4:15:00	25:30:00	6:25:00	1:35:00	8:00:00	12:15:00	4:05:00	99.60	99.39	229:45:00	76:35:00	99.15	99.04	12.25	18.00	4.08
12	Soraba	2	2	166	4:30:00	18:10:00	93:25:00	6:50:00	100:15:00	104:45:00	52:22:30	92.54	92.21	892:35:00	446:17:30	94.55	94.43	104.75	83.00	52.38
13	Hosnagara	1	1	66	18:50:00	251:10:00	9:00:00	2:50:00	11:50:00	30:40:00	30:40:00	98.24	95.44	464:30:00	464:30:00	97.34	94.21	30.67	66.00	30.67
14	Sagar	7	7	194	0:00:00	45:10:00	76:45:00	17:40:00	94:25:00	94:25:00	13:29:17	97.99	97.99	1882:15:00	268:53:34	96.73	96.65	94.42	27.71	13.49
15	Jog	3	3	36	0:00:00	48:00:00	9:23:00	2:10:00	11:33:00	11:33:00	3:51:00	99.43	99.43	495:28:00	165:09:20	98.14	97.94	11.55	12.00	3.85
16	Shikaripura	7	7	90	20:10:00	340:30:00	36:35:00	4:20:00	40:55:00	61:05:00	8:43:34	99.13	98.70	1026:05:00	146:35:00	98.78	98.17	61.08	12.86	8.73
17	Shiralkoppa	1	1	56	1:15:00	57:50:00	9:10:00	2:55:00	12:05:00	13:20:00	13:20:00	98.20	98.02	238:40:00	238:40:00	97.74	97.02	13.33	56.00	13.33
18	Anavatti	2	2	99	31:55:00	151:00:00	28:05:00	3:05:00	31:10:00	63:05:00	31:32:30	97.68	95.31	1098:05:00	549:02:30	94.09	93.15	63.08	49.50	31.54
19	Mudigere	1	1	32	4:15:00	89:01:00	9:35:00	0:55:00	10:30:00	14:45:00	14:45:00	98.44	97.81	354:46:00	354:46:00	96.68	95.57	14.75	32.00	14.75
20	Koppa	1	1	58	4:25:00	95:40:00	9:00:00	1:40:00	10:40:00	15:05:00	15:05:00	98.41	97.76	315:55:00	315:55:00	97.25	96.06	15.08	58.00	15.08
21	Sringeri	1	1	67	17:05:00	329:45:00	6:31:00	2:13:00	8:44:00	25:49:00	25:49:00	98.70	96.16	464:14:00	464:14:00	98.32	94.21	25.82	67.00	25.82
22	N.R.Pura	1	1	149	3:15:00	51:50:00	28:55:00	8:10:00	37:05:00	40:20:00	40:20:00	94.48	94.00	585:35:00	585:35:00	93.34	92.69	40.33	149.00	40.33
23	Kadur	2	2	53	3:10:00	21:41:00	17:03:00	7:05:00	24:08:00	27:18:00	13:39:00	98.20	97.97	355:51:00	177:55:30	97.92	97.78	27.30	26.50	13.65
24	Tharikere	2	2	135	4:00:00	102:40:00	56:50:00	4:00:00	60:50:00	64:50:00	32:25:00	95.47	95.18	708:05:00	354:02:30	96.22	95.58	64.83	67.50	32.42
25	Birur	1	1	34	1:10:00	32:25:00	8:50:00	2:45:00	11:35:00	12:45:00	12:45:00	98.28	98.10	214:25:00	214:25:00	97.73	97.33	12.75	34.00	12.75
<b>Total</b>		<b>112</b>	<b>112</b>	<b>3681</b>	<b>426:16:00</b>	<b>5690:39:00</b>	<b>2124:34:00</b>	<b>225:49:00</b>	<b>2350:23:00</b>	<b>2776:39:00</b>	<b>24:47:29</b>	<b>96.88</b>	<b>96.31</b>	<b>32135:14:00</b>	<b>286:55:18</b>	<b>97.05</b>	<b>96.42</b>	<b>2776.65</b>	<b>32.87</b>	<b>24.79</b>

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(A)

## RELIABILITY INDICES FOR RURAL AREAS IN MESCOM FOR THE MONTH OF FEBRUARY-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	353	5:02:00	296:25:00	62:42:00	28:51:00	91:33:00	96:35:00	9:39:30	98.64	98.56	2337:58:00	233:47:48	97.45	97.08	96.58	35.30	9.66
2	Kavoor	30	30	1067	8:41:00	281:53:00	295:21:00	97:31:00	392:52:00	401:33:00	13:23:06	98.05	98.01	5938:17:00	197:56:34	97.65	97.53	401.55	35.57	13.39
3	Puttur	60	60	4654	470:14:00	10309:11:00	612:45:00	491:16:00	1104:01:00	1574:15:00	26:14:15	97.26	96.10	33530:48:00	558:50:48	95.17	93.03	1574.25	77.57	26.24
4	Bantwal	93	93	6034	650:55:00	6166:44:00	1565:05:00	489:14:00	2054:19:00	2705:14:00	29:05:19	96.71	95.67	36855:40:00	396:17:51	95.88	95.06	2705.23	64.88	29.09
5	Udupi	46	46	1494	307:41:00	5579:08:00	330:10:00	121:10:00	451:20:00	759:01:00	16:30:01	98.54	97.54	16289:41:00	354:07:25	97.10	95.58	759.02	32.48	16.50
6	Karkala	31	31	1217	18:40:00	733:34:00	298:02:00	86:59:00	385:01:00	403:41:00	13:01:19	98.15	98.06	8669:41:00	279:40:02	96.81	96.51	403.68	39.26	13.02
7	Kundapura	61	61	2960	136:09:00	4526:18:00	841:08:00	256:39:00	1097:47:00	1233:56:00	20:13:42	97.32	96.99	22730:02:31	372:37:25	96.28	95.35	1233.93	48.52	20.23
8	Shivamogga	72	72	3761	139:09:00	1569:17:00	1147:59:00	353:52:00	1501:51:00	1641:00:00	22:47:30	96.90	96.61	33701:27:28	468:04:33	94.43	94.16	1641.00	52.24	22.79
9	Bhadravathi	21	21	1035	116:51:00	1204:00:00	337:00:00	801:00:00	1138:00:00	1254:51:00	59:45:17	91.94	91.11	18948:55:00	902:19:46	89.46	88.74	1254.85	49.29	59.75
10	Sagar	75	75	5064	226:20:00	6126:50:00	6618:55:00	806:55:00	7425:50:00	7652:10:00	102:01:44	85.27	84.82	71948:30:00	959:18:48	94.52	88.03	7652.17	67.52	102.03
11	Shikaripura	61	61	4661	743:00:00	3993:42:00	11188:52:00	426:40:00	11615:32:00	12358:32:00	202:35:56	71.66	69.85	86934:10:00	1425:09:01	83.04	82.22	12358.53	76.41	202.60
12	Chikkamagaluru	49	49	5112	103:32:00	2841:56:00	3753:59:00	530:04:00	4284:03:00	4387:35:00	89:32:33	86.99	86.68	62004:35:00	1265:23:59	84.94	84.21	4387.58	104.33	89.54
13	Kadur	68	68	4025	154:17:00	2791:54:00	2352:50:00	366:20:00	2719:10:00	2873:27:00	42:15:24	94.05	93.71	42213:54:00	620:47:34	92.77	92.26	2873.45	59.19	42.26
14	Koppa	38	38	4182	261:32:00	4716:00:00	1167:14:00	560:46:00	1728:00:00	1989:32:00	52:21:22	93.23	92.21	29514:24:00	776:41:41	91.86	90.31	1989.53	110.05	52.36
<b>Total</b>		<b>715</b>	<b>715</b>	<b>45619</b>	<b>3342:03:00</b>	<b>51136:52:00</b>	<b>30572:02:00</b>	<b>5417:17:00</b>	<b>35989:19:00</b>	<b>39331:22:00</b>	<b>55:00:32</b>	<b>92.51</b>	<b>91.81</b>	<b>471618:02:59</b>	<b>659:36:20</b>	<b>92.66</b>	<b>91.77</b>	<b>39331.37</b>	<b>63.80</b>	<b>55.01</b>

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. In 33/11KV MUSS Kumbra the Perlampady feeder's load shifted to Thingalady feeder

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

FORM-III(B)

### RELIABILITY INDICES FOR RURAL AREAS IN MESCOM FOR THE MONTH OF FEBRUARY-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	3139	67:47:00	845:07:00	5949:51:00	265:47:00	6215:38:00	6283:25:00	241:40:12	64.43	64.04	65141:31:32	2505:26:36	69.15	68.74	6283.42	120.73	241.67
9	Bhadravathi	26	26	2395	189:36:00	1721:04:00	8815:29:00	470:35:00	9286:04:00	9475:40:00	364:26:55	46.85	45.77	102326:03:00	3935:37:02	51.73	50.90	9475.67	92.12	364.45
10	Sagar	19	19	1134	9:25:00	401:50:00	7089:15:00	167:25:00	7256:40:00	7266:05:00	382:25:32	43.17	43.09	60691:30:00	3194:17:22	83.54	60.15	7266.08	59.68	382.43
11	Shikaripura	96	96	10612	719:27:00	5612:00:00	39795:37:00	1648:19:00	41443:56:00	42163:23:00	439:12:07	35.76	34.64	493564:57:00	5141:18:06	36.59	35.86	42163.38	110.54	439.20
13	Kadur	133	133	14910	190:29:00	3958:55:00	30208:20:00	1811:04:00	32019:24:00	32209:53:00	242:10:46	64.17	63.96	386751:42:00	2907:54:27	64.10	63.72	32209.88	112.11	242.18
	<b>Total</b>	<b>300</b>	<b>300</b>	<b>32190</b>	<b>1176:44:00</b>	<b>12538:56:00</b>	<b>91858:32:00</b>	<b>4363:10:00</b>	<b>96221:42:00</b>	<b>97398:26:00</b>	<b>324:39:41</b>	<b>52.27</b>	<b>51.69</b>	<b>1108475:43:32</b>	<b>3694:55:09</b>	<b>54.43</b>	<b>53.91</b>	<b>97398.43</b>	<b>107.30</b>	<b>324.66</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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