

MANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

Annex- I

FORM-1

RELIABILITY INDICES FOR DISTRICT HEAD QUARTERS IN MESCOM FOR THE MONTH JULY-2021

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-22	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-22	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	80	80	2331	89:29:00	288:43:00	379:23:00	195:14:00	574:37:00	664:06:00	8:18:05	99.03	98.88	3123:28:00	39:02:36	98.79	98.67	664.10	29.14	8.30
2	Kavoor	36	36	1341	132:44:00	716:53:00	345:44:00	138:35:00	484:19:00	617:03:00	17:08:25	98.19	97.70	2791:05:00	77:31:48	98.03	97.35	617.05	37.25	17.14
3	Udupi	31	31	1462	76:20:00	349:47:00	212:00:00	156:32:00	368:32:00	444:52:00	14:21:02	98.40	98.07	2439:41:00	78:41:58	97.70	97.31	444.87	47.16	14.35
4	Shivamogga	40	40	1239	0:00:00	39:35:00	384:00:00	141:22:00	525:22:00	525:22:00	13:08:03	98.23	98.23	1995:25:00	49:53:07	98.33	98.30	525.37	30.98	13.13
5	Chikkamagaluru	8	8	268	0:00:00	1:00:00	71:27:00	17:38:00	89:05:00	89:05:00	11:08:07	98.50	98.50	385:30:00	48:11:15	98.36	98.35	89.08	33.50	11.14
	Total	195	195	6641	298:33:00	1395:58:00	1392:34:00	649:21:00	2041:55:00	2340:28:00	12:00:09	98.59	98.39	10735:09:00	55:03:07	98.36	98.12	2340.47	34.06	12.00

In Shivamogga out of 42 feeders load of 2 feeders were shifted to other feeders due to cable fault. Hence, total No. of feeders considered as 40.

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

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

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

Sd/-
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 JULY-2021

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-22	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-22	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	532	3:36:00	47:17:00	289:04:00	57:53:00	346:57:00	350:33:00	43:49:08	94.17	94.11	1254:39:00	156:49:53	94.85	94.64	350.55	66.50	43.82
2	Bantwal	5	5	399	12:34:00	47:36:00	30:52:00	75:44:00	106:36:00	119:10:00	23:50:00	97.13	96.80	498:25:00	99:41:00	96.92	96.60	119.17	79.80	23.83
3	Belthangadi	2	2	215	7:26:00	14:42:00	21:39:00	23:26:00	45:05:00	52:31:00	26:15:30	96.97	96.47	175:11:00	87:35:30	97.26	97.01	52.52	107.50	26.26
4	Puttur	12	12	1152	9:57:00	63:53:00	157:44:00	137:44:00	295:28:00	305:25:00	25:27:05	96.69	96.58	1489:27:00	124:07:15	95.94	95.76	305.42	96.00	25.45
5	Kadaba	2	2	340	36:56:00	257:22:00	20:50:00	41:31:00	62:21:00	99:17:00	49:38:30	95.81	93.33	600:00:00	300:00:00	94.15	89.75	99.28	170.00	49.64
6	Sullia	2	2	456	59:20:00	314:20:00	39:20:00	37:00:00	76:20:00	135:40:00	67:50:00	94.87	90.88	623:25:00	311:42:30	94.72	89.35	135.67	228.00	67.83
7	Karkala	10	10	912	81:10:00	198:11:00	158:09:00	91:53:00	250:02:00	331:12:00	33:07:12	96.64	95.55	1079:49:00	107:58:54	96.99	96.31	331.20	91.20	33.12
8	Kundapura	3	3	144	27:00:00	74:54:00	32:52:00	24:12:00	57:04:00	84:04:00	28:01:20	97.44	96.23	331:23:00	110:27:40	97.08	96.23	84.07	48.00	28.02
9	Bhadravathi	27	27	492	9:15:00	49:15:00	130:49:00	63:38:00	194:27:00	203:42:00	7:32:40	99.03	98.99	1141:19:00	42:16:16	98.62	98.56	203.70	18.22	7.54
10	Thirthahalli	3	3	93	0:00:00	10:15:00	15:20:00	8:10:00	23:30:00	23:30:00	7:50:00	98.95	98.95	121:30:00	40:30:00	98.73	98.62	23.50	31.00	7.83
11	Soraba	1	1	53	1:30:00	5:55:00	33:50:00	5:15:00	39:05:00	40:35:00	40:35:00	94.75	94.55	157:20:00	157:20:00	94.83	94.63	40.58	53.00	40.58
12	Hosnagara	1	1	281	21:25:00	140:00:00	163:05:00	14:45:00	177:50:00	199:15:00	199:15:00	76.10	73.22	407:50:00	407:50:00	90.85	86.07	199.25	281.00	199.25
13	Sagar	6	6	340	2:20:00	14:10:00	82:40:00	66:00:00	148:40:00	151:00:00	25:10:00	96.67	96.62	786:30:00	131:05:00	95.60	95.52	151.00	56.67	25.17
14	Jog	3	3	118	2:30:00	11:45:00	46:35:00	36:15:00	82:50:00	85:20:00	28:26:40	96.29	96.18	251:15:00	83:45:00	97.27	97.14	85.33	39.33	28.44
15	Shikaripura	7	7	283	9:35:00	44:00:00	82:40:00	33:30:00	116:10:00	125:45:00	17:57:51	97.77	97.59	1165:20:00	166:28:34	94.53	94.31	125.75	40.43	17.96
16	Shiralkoppa	1	1	92	1:40:00	26:00:00	15:20:00	7:50:00	23:10:00	24:50:00	24:50:00	96.89	96.66	106:15:00	106:15:00	97.26	96.37	24.83	92.00	24.83
17	Mudigere	1	1	56	0:25:00	13:15:00	12:33:00	4:13:00	16:46:00	17:11:00	17:11:00	97.75	97.69	85:57:00	85:57:00	97.52	97.06	17.18	56.00	17.18
18	Koppa	1	1	124	12:30:00	35:45:00	23:55:00	10:50:00	34:45:00	47:15:00	47:15:00	95.33	93.65	165:25:00	165:25:00	95.57	94.35	47.25	124.00	47.25
19	Sringeri	1	1	132	26:10:00	133:00:00	10:40:00	8:15:00	18:55:00	45:05:00	45:05:00	97.46	93.94	210:40:00	210:40:00	97.35	92.81	45.08	132.00	45.08
20	N.R.Pura	1	1	201	9:30:00	15:45:00	24:50:00	34:15:00	59:05:00	68:35:00	68:35:00	92.06	90.78	197:35:00	197:35:00	93.79	93.25	68.58	201.00	68.58
21	Kadur	2	2	123	0:00:00	0:50:00	39:00:00	7:32:00	46:32:00	46:32:00	23:16:00	96.87	96.87	209:10:00	104:35:00	96.44	96.43	46.53	61.50	23.27
22	Tharikere	2	2	309	1:00:00	29:50:00	21:40:00	6:40:00	28:20:00	29:20:00	14:40:00	98.10	98.03	173:35:00	86:47:30	97.55	97.04	29.33	154.50	14.67
23	Birur	2	2	126	1:00:00	6:30:00	28:10:00	15:50:00	44:00:00	45:00:00	22:30:00	97.04	96.98	137:40:00	68:50:00	97.76	97.65	45.00	63.00	22.50
	Total	103	103	6973	336:49:00	1554:30:00	1481:37:00	812:21:00	2293:58:00	2630:47:00	25:32:30	97.01	96.57	11369:40:00	110:23:06	96.75	96.23	2630.78	67.70	25.54

* 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 day

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]

Sd/-
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 JULY-2021

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-22	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-22	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	776	2:46:00	36:45:00	131:01:00	80:09:00	211:10:00	213:56:00	23:46:13	96.85	96.81	1052:55:00	116:59:27	96.14	96.00	213.93	86.22	23.77
2	Kavoor	29	29	2275	231:02:00	345:27:00	403:53:00	301:17:00	705:10:00	936:12:00	32:16:58	96.73	95.66	3889:24:00	134:07:02	95.83	95.42	936.20	78.45	32.28
3	Puttur	54	54	8268	715:04:00	4474:53:00	1122:06:00	1400:50:00	2522:56:00	3238:00:00	59:57:47	93.72	91.94	15628:44:00	289:25:16	92.95	90.12	3238.00	153.11	59.96
4	Bantwal	87	87	10423	691:18:00	2512:18:00	1714:33:00	1869:58:00	3584:31:00	4275:49:00	49:08:50	94.46	93.39	15604:36:00	179:21:48	94.86	93.87	4275.82	119.80	49.15
5	Udupi	62	62	5191	263:28:00	1100:36:00	1306:48:00	893:14:00	2200:02:00	2463:30:00	39:44:02	95.23	94.66	11855:20:29	191:12:55	94.08	93.47	2463.50	83.73	39.73
6	Kundapura	46	46	4832	295:38:00	1379:40:00	865:55:00	918:46:00	1784:41:00	2080:19:00	45:13:27	94.79	93.92	8710:05:00	189:20:59	94.56	93.53	2080.32	105.04	45.22
7	Shivamogga	78	78	8081	52:40:00	386:04:00	4211:10:00	2826:01:00	7037:11:00	7089:51:00	90:53:44	87.87	87.78	29342:06:00	376:10:51	87.32	87.15	7089.85	103.60	90.90
8	Bhadravathi	39	39	3562	186:55:00	933:21:00	5323:40:00	2388:42:00	7712:22:00	7899:17:00	202:32:45	73.42	72.78	28224:00:00	723:41:32	76.10	75.28	7899.28	91.33	202.55
9	Sagar	87	87	7462	520:45:00	3059:25:00	4550:20:00	3596:25:00	8146:45:00	8667:30:00	99:37:35	87.41	86.61	41846:21:00	480:59:33	84.77	83.57	8667.50	85.77	99.63
10	Shikaripura	142	142	14701	231:35:00	1908:00:00	37844:32:00	8370:14:00	46214:46:00	46446:21:00	327:05:13	56.26	56.04	182808:25:00	1287:23:00	56.49	56.03	46446.35	103.53	327.09
11	Chikkamagaluru	48	48	6906	171:18:00	924:55:00	2868:53:00	2185:35:00	5054:28:00	5225:46:00	108:52:12	85.85	85.37	25148:27:00	523:55:34	82.76	82.11	5225.77	143.88	108.87
12	Kadur	185	185	21170	209:10:00	647:00:00	25551:04:00	7773:02:00	33324:06:00	33533:16:00	181:15:39	75.79	75.64	133558:30:00	721:56:16	75.46	75.34	33533.27	114.43	181.26
13	Koppa	36	36	6324	454:28:00	1927:22:00	1384:58:00	2387:51:00	3772:49:00	4227:17:00	117:25:28	85.91	84.22	16700:15:00	463:53:45	85.99	84.16	4227.28	175.67	117.42
Total		902	902	99971	4026:07:00	19635:46:00	87278:53:00	34992:04:00	122270:57:00	126297:04:00	140:01:08	81.78	81.18	514369:08:29	570:15:15	81.27	80.52	126297.07	110.83	140.02

In Shivamogga division, F4 feeder Kumsi MUSS is temporarily converted as 11 KV Bank for NJY Feeders From 28.10.2020 @ 13:20 Hrs& F-4 Load connected to KF-1
In Kundapura division, Byndoor feeder clubbed with Ganganadu feeder

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

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

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

Sd/-
Superintending Engineer(Ele)(Tech)
MESCOM,Mangaluru