

MANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

Annex- I

FORM-1

RELIABILITY INDICES FOR DISTRICT HEAD QUARTERS IN MESCOM FOR THE MONTH MARCH-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-21	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-21	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	2135	186:53:00	1070:20:00	719:25:00	214:44:00	934:09:00	1121:02:00	14:00:46	98.43	98.12	8060:05:49	100:45:04	99.00	98.85	1121.03	26.69	14.01
2	Kavoor	36	36	902	110:04:00	1367:26:48	453:11:00	138:16:00	591:27:00	701:31:00	19:29:12	97.79	97.38	5795:41:48	160:59:30	98.60	98.16	701.52	25.06	19.49
3	Udupi	35	35	908	49:06:00	1130:37:00	211:00:00	70:05:00	281:05:00	330:11:00	9:26:02	98.92	98.73	6276:54:00	179:20:24	98.32	97.95	330.18	25.94	9.43
4	Shivamogga	37	37	1112	59:57:00	136:54:00	545:30:00	90:53:00	636:23:00	696:20:00	18:49:11	97.69	97.47	5414:17:00	146:19:55	98.37	98.33	696.33	30.05	18.82
5	Chikkamagaluru	8	8	218	0:00:00	110:45:00	76:18:00	12:08:00	88:26:00	88:26:00	11:03:15	98.51	98.51	1156:36:00	144:34:30	98.51	98.35	88.43	27.25	11.05
	Total	196	196	5275	406:00:00	3816:02:48	2005:24:00	526:06:00	2531:30:00	2937:30:00	14:59:14	98.26	97.99	26703:34:37	136:14:34	98.67	98.44	2937.50	26.91	14.99

In Shivamogga out of 41 feeders load of 4 feeders were shifted to other feeders due to cable fault. Hence, total No. of feeders considered as 37.

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

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

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

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 MARCH-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-21	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-21	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	240	0:00:00	176:16:00	103:51:00	22:46:00	126:37:00	126:37:00	15:49:37	97.87	97.87	1751:24:00	218:55:30	97.75	97.50	126.62	30.00	15.83
2	Bantwal	5	5	308	11:58:00	589:43:00	27:46:00	13:58:00	41:44:00	53:42:00	10:44:24	98.88	98.56	1271:08:00	254:13:36	98.44	97.10	53.70	61.60	10.74
3	Belthangadi	2	2	198	0:00:00	50:04:00	38:50:00	10:02:00	48:52:00	48:52:00	24:26:00	96.72	96.72	267:25:00	133:42:30	98.76	98.47	48.87	99.00	24.43
4	Puttur	12	12	915	103:10:00	652:23:00	214:25:00	95:29:00	309:54:00	413:04:00	34:25:20	96.53	95.37	3991:08:00	332:35:40	96.82	96.20	413.07	76.25	34.42
5	Kadaba	2	2	185	50:56:00	1009:50:00	19:15:00	19:41:00	38:56:00	89:52:00	44:56:00	97.38	93.96	1720:48:00	860:24:00	95.94	90.18	89.87	92.50	44.93
6	Sullia	2	2	320	83:50:00	883:06:00	35:10:00	17:15:00	52:25:00	136:15:00	68:07:30	96.48	90.84	1610:51:00	805:25:30	95.85	90.81	136.25	160.00	68.13
7	Karkala	4	4	142	0:00:00	24:11:00	45:02:00	19:00:00	64:02:00	64:02:00	16:00:30	97.85	97.85	1211:19:00	302:49:45	96.61	96.54	64.03	35.50	16.01
8	Kundapura	3	3	69	10:33:00	185:24:00	15:19:00	7:39:00	22:58:00	33:31:00	11:10:20	98.97	98.50	736:29:00	245:29:40	97.90	97.20	33.52	23.00	11.17
9	Bhadravathi	27	27	737	50:10:00	646:53:00	310:35:00	70:11:00	380:46:00	430:56:00	15:57:38	98.10	97.85	5248:45:00	194:23:53	98.05	97.78	430.93	27.30	15.96
10	Thirthahalli	3	3	66	4:45:00	93:30:00	38:50:00	1:50:00	40:40:00	45:25:00	15:08:20	98.18	97.97	374:10:00	124:43:20	98.93	98.58	45.42	22.00	15.14
11	Soraba	1	1	58	4:00:00	16:20:00	33:55:00	0:30:00	34:25:00	38:25:00	38:25:00	95.37	94.84	397:35:00	397:35:00	95.65	95.46	38.42	58.00	38.42
12	Hosnagara	1	1	58	15:50:00	304:10:00	11:35:00	9:00:00	20:35:00	36:25:00	36:25:00	97.23	95.11	577:30:00	577:30:00	96.88	93.41	36.42	58.00	36.42
13	Sagar	5	5	222	11:05:00	22:05:00	88:10:00	20:55:00	109:05:00	120:10:00	24:02:00	97.07	96.77	2054:45:00	410:57:00	95.36	95.31	120.17	44.40	24.03
14	Jog	3	3	48	12:45:00	31:05:00	14:50:00	4:20:00	19:10:00	31:55:00	10:38:20	99.14	98.57	452:35:00	150:51:40	98.40	98.28	31.92	16.00	10.64
15	Shikaripura	8	8	242	45:30:00	189:50:00	104:45:00	17:25:00	122:10:00	167:40:00	20:57:30	97.95	97.18	1533:05:00	191:38:07	98.08	97.81	167.67	30.25	20.96
16	Shiralkoppa	1	1	48	5:25:00	61:30:00	15:15:00	2:35:00	17:50:00	23:15:00	23:15:00	97.60	96.88	261:30:00	261:30:00	97.72	97.01	23.25	48.00	23.25
17	Mudigere	1	1	51	0:13:00	85:16:00	11:05:00	1:34:00	12:39:00	12:52:00	12:52:00	98.30	98.27	337:41:00	337:41:00	97.12	96.15	12.87	51.00	12.87
18	Koppa	1	1	110	15:35:00	211:10:00	21:50:00	4:45:00	26:35:00	42:10:00	42:10:00	96.43	94.33	595:45:00	595:45:00	95.61	93.20	42.17	110.00	42.17
19	Sringeri	1	1	90	23:40:00	380:30:00	18:45:00	4:05:00	22:50:00	46:30:00	46:30:00	96.93	93.75	564:40:00	564:40:00	97.90	93.55	46.50	90.00	46.50
20	N.R.Pura	1	1	131	3:10:00	101:55:00	26:35:00	11:45:00	38:20:00	41:30:00	41:30:00	94.85	94.42	468:40:00	468:40:00	95.81	94.65	41.50	131.00	41.50
21	Kadur	2	2	118	0:00:00	9:50:00	27:26:00	3:20:00	30:46:00	30:46:00	15:23:00	97.93	97.93	450:29:00	225:14:30	97.48	97.43	30.77	59.00	15.38
22	Tharikere	2	2	119	5:50:00	66:35:00	27:30:00	5:30:00	33:00:00	38:50:00	19:25:00	97.78	97.39	447:20:00	223:40:00	97.83	97.45	38.83	59.50	19.42
23	Birur	2	2	95	5:50:00	36:50:00	50:50:00	7:00:00	57:50:00	63:40:00	31:50:00	96.11	95.72	455:40:00	227:50:00	97.61	97.40	63.67	47.50	31.83
	Total	97	97	4570	464:15:00	5828:26:00	1301:34:00	370:35:00	1672:09:00	2136:24:00	22:01:29	97.68	97.04	26780:42:00	276:05:23	97.53	96.85	2136.40	47.11	22.02

* 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]

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 MARCH-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-21	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-21	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	690	32:34:00	125:36:00	178:15:00	82:48:00	261:03:00	293:37:00	32:37:27	96.10	95.62	2124:58:00	236:06:27	97.46	97.30	293.62	76.67	32.62
2	Kavoor	29	29	1136	0:00:00	438:52:00	407:26:00	124:27:00	531:53:00	531:53:00	18:20:27	97.53	97.53	5818:00:00	200:37:14	97.88	97.71	531.88	39.17	18.34
3	Puttur	54	54	6154	1168:26:00	18015:51:00	1191:39:00	689:31:00	1881:10:00	3049:36:00	56:28:27	95.32	92.41	37926:42:00	702:20:47	95.79	91.98	3049.60	113.96	56.47
4	Bantwal	87	87	5998	651:25:00	8696:53:00	1185:55:00	1216:42:00	2402:37:00	3054:02:00	35:06:14	96.29	95.28	33502:42:00	385:05:19	96.75	95.60	3054.03	68.94	35.10
5	Udupi	62	62	2921	165:28:00	2592:17:00	910:00:00	320:21:00	1230:21:00	1395:49:00	22:30:47	97.33	96.97	20129:38:00	324:40:17	96.77	96.29	1395.82	47.11	22.51
6	Kundapura	46	46	2675	371:36:00	4839:16:00	741:32:00	220:48:00	962:20:00	1333:56:00	28:59:55	97.19	96.10	20675:04:16	449:27:29	96.07	94.87	1333.93	58.15	29.00
7	Shivamogga	75	75	7037	208:12:00	1864:35:00	6978:07:00	698:08:00	7676:15:00	7884:27:00	105:07:34	86.24	85.87	52481:03:00	699:44:50	92.30	92.01	7884.45	93.83	105.13
8	Bhadravathi	39	39	4448	342:26:00	2575:00:00	4710:11:00	1303:51:00	6014:02:00	6356:28:00	162:59:11	79.27	78.09	56906:59:00	1459:09:12	84.10	83.34	6356.47	114.05	162.99
9	Sagar	76	76	7139	440:35:00	5931:05:00	9730:54:00	1043:01:00	10773:55:00	11214:30:00	147:33:33	80.95	80.17	89977:01:00	1183:54:29	87.38	86.49	11214.50	93.93	147.56
10	Shikaripura	138	138	14699	906:32:00	4629:33:00	46694:36:00	1965:47:00	48660:23:00	49566:55:00	359:10:50	52.61	51.72	266596:25:00	1931:51:29	78.33	77.95	49566.92	106.51	359.18
11	Chikkamagaluru	48	48	5151	102:40:00	3673:37:00	5892:26:00	616:17:00	6508:43:00	6611:23:00	137:44:14	81.77	81.49	50921:04:00	1060:51:20	88.76	87.89	6611.38	107.31	137.74
12	Kadur	175	175	19499	243:15:00	4012:40:00	30763:57:00	3617:23:00	34381:20:00	34624:35:00	197:51:17	73.59	73.41	308194:01:00	1761:06:31	80.16	79.90	34624.58	111.42	197.85
13	Koppa	36	36	3824	455:19:00	8695:30:00	3567:30:00	455:21:00	4022:51:00	4478:10:00	124:23:37	84.98	83.28	40218:43:00	1117:11:12	90.00	87.25	4478.17	106.22	124.39
Total		874	874	81371	5088:28:00	66090:45:00	112952:28:00	12354:25:00	125306:53:00	130395:21:00	149:11:38	80.73	79.95	985472:20:16	1127:32:34	87.99	87.13	130395.35	93.10	149.19

In Kundapura division, 11KV Bailoor Feeder Clubbed with 11 KV Shankaranarayana Feeder

In Shimoga 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 Sagar division, Ramachandrapura mata Clubbed with F2 hosanagar feeder due to Non availability of spare breaker and in Chandraguthi substation NJY feeder Kept Idle

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

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

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

Sd/-

Superintending Engineer(Ele)(Tech)
MESCOM,Mangaluru