

MANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

Annex- I

FORM-1

RELIABILITY INDICES FOR DISTRICT HEAD QUARTERS IN MESCOM FOR THE MONTH DECEMBER-2020

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	79	79	1525	76:51:00	765:34:00	347:03:48	108:22:00	455:25:48	532:16:48	6:44:16	99.23	99.09	5988:33:49	75:48:17	99.00	98.85	532.28	19.30	6.74
2	Kavoor	35	35	799	62:08:00	1094:06:00	203:26:00	113:34:00	317:00:00	379:08:00	10:49:57	98.78	98.54	4379:28:00	125:07:39	98.58	98.10	379.13	22.83	10.83
3	Udupi	35	35	825	7:21:00	960:06:00	163:57:00	82:44:00	246:41:00	254:02:00	7:15:29	99.05	99.02	5151:03:00	147:10:22	98.19	97.77	254.03	23.57	7.26
4	Shivamogga	37	37	742	6:00:00	75:27:00	286:33:00	58:10:00	344:43:00	350:43:00	9:28:44	98.75	98.73	3872:31:00	104:39:45	98.45	98.41	350.72	20.05	9.48
5	Chikkamagaluru	7	7	155	0:00:00	94:35:00	65:40:00	9:40:00	75:20:00	75:20:00	10:45:43	98.55	98.55	961:22:00	137:20:17	98.12	97.92	75.33	22.14	10.76
	Total	193	193	4046	152:20:00	2989:48:00	1066:39:48	372:30:00	1439:09:48	1591:29:48	8:14:46	99.00	98.89	20352:57:49	105:27:21	98.64	98.40	1591.50	20.96	8.25

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

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

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 DECEMBER-2020

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	224	36:30:00	176:16:00	88:15:00	34:03:00	122:18:00	158:48:00	19:51:00	97.95	97.33	1329:15:00	166:09:23	97.82	97.48	158.80	28.00	19.85
2	Bantwal	5	5	637	85:04:00	476:19:00	25:11:00	27:00:00	52:11:00	137:15:00	27:27:00	98.60	96.31	1018:18:00	203:39:36	98.36	96.91	137.25	127.40	27.45
3	Belthangadi	2	2	61	1:55:00	48:04:00	6:34:00	4:33:00	11:07:00	13:02:00	6:31:00	99.25	99.12	162:34:00	81:17:00	99.13	98.77	13.03	30.50	6.52
4	Puttur	12	12	626	29:14:00	386:03:00	119:35:00	72:43:00	192:18:00	221:32:00	18:27:40	97.85	97.52	3060:46:00	255:03:50	96.62	96.14	221.53	52.17	18.46
5	Kadaba	2	2	124	26:20:00	864:36:00	21:42:00	7:11:00	28:53:00	55:13:00	27:36:30	98.06	96.29	1470:17:00	735:08:30	95.41	88.86	55.22	62.00	27.61
6	Sullia	2	2	317	75:30:00	695:56:00	25:50:00	10:20:00	36:10:00	111:40:00	55:50:00	97.57	92.50	1292:26:00	646:13:00	95.48	90.21	111.67	158.50	55.83
7	Karkala	4	4	105	0:15:00	23:13:00	27:10:00	8:20:00	35:30:00	35:45:00	8:56:15	98.81	98.80	1049:42:00	262:25:30	96.11	96.02	35.75	26.25	8.94
8	Kundapura	3	3	69	33:45:00	127:51:00	10:43:00	7:31:00	18:14:00	51:59:00	17:19:40	99.18	97.67	605:20:00	201:46:40	97.59	96.94	51.98	23.00	17.33
9	Bhadravathi	27	27	405	25:00:00	552:18:00	155:48:00	70:02:00	225:50:00	250:50:00	9:17:24	98.88	98.75	4047:42:00	149:54:53	98.04	97.73	250.83	15.00	9.29
10	Thirthahalli	3	3	43	1:45:00	88:45:00	2:50:00	1:45:00	4:35:00	6:20:00	2:06:40	99.79	99.72	297:30:00	99:10:00	98.95	98.50	6.33	14.33	2.11
11	Soraba	1	1	56	0:20:00	10:05:00	15:40:00	0:20:00	16:00:00	16:20:00	16:20:00	97.85	97.80	312:30:00	312:30:00	95.42	95.27	16.33	56.00	16.33
12	Hosnagara	1	1	44	7:10:00	251:05:00	15:00:00	5:40:00	20:40:00	27:50:00	27:50:00	97.22	96.26	472:05:00	472:05:00	96.65	92.85	27.83	44.00	27.83
13	Sagar	6	6	131	0:00:00	11:00:00	40:10:00	21:45:00	61:55:00	61:55:00	10:19:10	98.61	98.61	1671:20:00	278:33:20	95.81	95.78	61.92	21.83	10.32
14	Jog	3	3	20	0:00:00	18:20:00	4:10:00	8:55:00	13:05:00	13:05:00	4:21:40	99.41	99.41	394:15:00	131:25:00	98.10	98.01	13.08	6.67	4.36
15	Shikaripura	7	7	98	0:00:00	136:55:00	27:10:00	5:25:00	32:35:00	32:35:00	4:39:17	99.37	99.37	1135:10:00	162:10:00	97.84	97.54	32.58	14.00	4.65
16	Shiralkoppa	1	1	34	0:00:00	45:55:00	6:30:00	1:30:00	8:00:00	8:00:00	8:00:00	98.92	98.92	206:45:00	206:45:00	97.56	96.87	8.00	34.00	8.00
17	Mudigere	1	1	50	5:05:00	56:43:00	10:58:00	1:52:00	12:50:00	17:55:00	17:55:00	98.28	97.59	282:48:00	282:48:00	96.57	95.72	17.92	50.00	17.92
18	Koppa	1	1	67	4:25:00	180:45:00	11:50:00	1:35:00	13:25:00	17:50:00	17:50:00	98.20	97.60	511:15:00	511:15:00	94.99	92.25	17.83	67.00	17.83
19	Sringeri	1	1	44	2:50:00	334:30:00	4:30:00	2:10:00	6:40:00	9:30:00	9:30:00	99.10	98.72	476:50:00	476:50:00	97.84	92.78	9.50	44.00	9.50
20	N.R.Pura	1	1	122	2:00:00	92:10:00	16:25:00	6:25:00	22:50:00	24:50:00	24:50:00	96.93	96.66	362:50:00	362:50:00	95.90	94.50	24.83	122.00	24.83
21	Kadur	2	2	90	0:00:00	7:30:00	29:12:00	3:11:00	32:23:00	32:23:00	16:11:30	97.82	97.82	373:35:00	186:47:30	97.23	97.17	32.38	45.00	16.19
22	Tharikere	2	2	71	4:50:00	47:25:00	17:15:00	2:40:00	19:55:00	24:45:00	12:22:30	98.66	98.34	350:35:00	175:17:30	97.70	97.34	24.75	35.50	12.38
23	Birur	2	2	64	4:50:00	26:40:00	16:50:00	4:50:00	21:40:00	26:30:00	13:15:00	98.54	98.22	350:00:00	175:00:00	97.55	97.35	26.50	32.00	13.25
	Total	97	97	3502	346:48:00	4658:24:00	699:18:00	309:46:00	1009:04:00	1355:52:00	13:58:41	98.60	98.12	21233:48:00	218:54:19	97.41	96.68	1355.87	36.10	13.98

In Sagar division SVP colony & Kargal feeder is KPC colonies Canceled(KPC feeders)

* 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 11

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 DECEMBER-2020

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	337	0:52:00	76:29:00	69:26:00	34:45:00	104:11:00	105:03:00	11:40:20	98.44	98.43	1575:51:00	175:05:40	97.48	97.35	105.05	37.44	11.67
2	Kavoor	29	29	1052	61:17:00	437:43:00	209:07:00	141:59:00	351:06:00	412:23:00	14:13:12	98.37	98.09	4693:03:00	161:49:46	97.78	97.55	412.38	36.28	14.22
3	Puttur	53	53	4706	1038:54:00	14755:12:00	617:25:00	478:34:00	1095:59:00	2134:53:00	40:16:51	97.22	94.59	30526:16:00	575:58:02	95.49	91.27	2134.88	88.79	40.28
4	Bantwal	83	83	7374	822:01:00	6547:43:00	1043:16:00	729:20:00	1772:36:00	2594:37:00	31:15:38	97.13	95.80	25106:20:00	302:29:09	96.61	95.42	2594.62	88.84	31.26
5	Udupi	60	60	2530	213:21:00	2170:59:00	654:52:00	289:19:00	944:11:00	1157:32:00	19:17:32	97.88	97.41	16012:28:00	266:52:28	96.50	95.96	1157.53	42.17	19.29
6	Kundapura	45	45	2580	503:09:00	3581:54:00	564:07:00	291:56:00	856:03:00	1359:12:00	30:12:16	97.44	95.94	16521:41:16	367:08:55	95.64	94.44	1359.20	57.33	30.20
7	Shivamogga	71	71	5622	75:15:00	1552:08:00	5036:38:00	757:51:00	5794:29:00	5869:44:00	82:40:20	89.03	88.89	32634:40:00	459:38:35	93.37	93.04	5869.73	79.18	82.67
8	Bhadravathi	39	39	3174	211:02:00	1852:15:00	4891:02:00	583:01:00	5474:03:00	5685:05:00	145:46:17	81.13	80.41	38270:31:00	981:17:43	85.85	85.13	5685.08	81.38	145.77
9	Sagar	65	65	4599	226:10:00	4888:15:00	5218:28:00	678:35:00	5897:03:00	6123:13:00	94:12:12	87.81	87.34	63097:21:00	970:43:42	86.43	85.29	6123.22	70.75	94.20
10	Shikaripura	136	136	11614	76:20:00	3227:13:00	37390:11:00	1906:56:00	39297:07:00	39373:27:00	289:30:38	61.16	61.09	129033:50:00	948:46:41	85.98	85.62	39373.45	85.40	289.51
11	Chikkamagaluru	48	48	3937	98:30:00	2947:24:00	3832:14:00	624:41:00	4456:55:00	4555:25:00	94:54:16	87.52	87.24	32427:58:00	675:34:57	90.69	89.76	4555.42	82.02	94.90
12	Kadur	173	173	14558	399:15:00	3224:25:00	23544:57:00	3285:27:00	26830:24:00	27229:39:00	157:23:49	79.15	78.84	213141:48:00	1232:02:01	81.62	81.33	27229.65	84.15	157.40
13	Koppa	36	36	2983	120:50:00	7777:30:00	1244:33:00	976:54:00	2221:27:00	2342:17:00	65:03:48	91.71	91.25	31062:55:00	862:51:32	90.20	86.93	2342.28	82.86	65.06
Total		847	847	65066	3846:56:00	53039:10:00	84316:16:00	10779:18:00	95095:34:00	98942:30:00	116:48:55	84.91	84.30	634104:42:16	748:38:52	89.61	88.66	98942.50	76.82	116.82

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

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

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

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