

# MANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

Annex- I

FORM-1

## RELIABILITY INDICES FOR DISTRICT HEAD QUARTERS IN MESCOM FOR THE MONTH JANUARY-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	79	79	1550	70:04:00	835:38:00	332:27:00	137:28:00	469:55:00	539:59:00	6:50:07	99.20	99.08	6528:32:49	82:38:23	99.02	98.87	539.98	19.62	6.84
2	Kavoor	35	35	904	39:52:00	1133:58:00	198:52:00	94:39:00	293:31:00	333:23:00	9:31:31	98.87	98.72	4712:51:00	134:39:10	98.61	98.17	333.38	25.83	9.53
3	Udupi	35	35	968	17:21:00	977:27:00	162:35:00	157:16:00	319:51:00	337:12:00	9:38:03	98.77	98.71	5488:15:00	156:48:26	98.25	97.86	337.20	27.66	9.63
4	Shivamogga	37	37	869	0:00:00	75:27:00	390:30:00	94:46:00	485:16:00	485:16:00	13:06:55	98.24	98.24	4357:47:00	117:46:41	98.42	98.40	485.27	23.49	13.12
5	Chikkamagaluru	7	7	150	16:10:00	110:45:00	42:04:00	7:15:00	49:19:00	65:29:00	9:21:17	99.05	98.74	1026:51:00	146:41:34	98.22	98.00	65.48	21.43	9.35
	<b>Total</b>	<b>193</b>	<b>193</b>	<b>4441</b>	<b>143:27:00</b>	<b>3133:15:00</b>	<b>1126:28:00</b>	<b>491:24:00</b>	<b>1617:52:00</b>	<b>1761:19:00</b>	<b>9:07:34</b>	<b>98.87</b>	<b>98.77</b>	<b>22114:16:49</b>	<b>114:34:54</b>	<b>98.66</b>	<b>98.44</b>	<b>1761.32</b>	<b>23.01</b>	<b>9.13</b>

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= {[ 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 JANUARY-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	270	0:00:00	176:16:00	100:12:00	51:17:00	151:29:00	151:29:00	18:56:07	97.45	97.45	1480:44:00	185:05:30	97.78	97.48	151.48	33.75	18.94
2	Bantwal	5	5	718	89:34:00	565:53:00	28:21:00	32:22:00	60:43:00	150:17:00	30:03:24	98.37	95.96	1168:35:00	233:43:00	98.36	96.82	150.28	143.60	30.06
3	Belthangadi	2	2	62	2:00:00	50:04:00	6:34:00	4:33:00	11:07:00	13:07:00	6:33:30	99.25	99.12	175:41:00	87:50:30	99.14	98.80	13.12	31.00	6.56
4	Puttur	12	12	674	28:50:00	414:53:00	125:43:00	72:34:00	198:17:00	227:07:00	18:55:35	97.78	97.46	3287:53:00	273:59:25	96.74	96.27	227.12	56.17	18.93
5	Kadaba	2	2	141	44:36:00	909:12:00	16:12:00	22:36:00	38:48:00	83:24:00	41:42:00	97.39	94.40	1553:41:00	776:50:30	95.61	89.42	83.40	70.50	41.70
6	Sullia	2	2	340	42:10:00	738:06:00	37:45:00	15:40:00	53:25:00	95:35:00	47:47:30	96.41	93.58	1388:01:00	694:00:30	95.58	90.55	95.58	170.00	47.79
7	Karkala	4	4	149	0:00:00	23:13:00	47:08:00	23:43:00	70:51:00	70:51:00	17:42:45	97.62	97.62	1120:33:00	280:08:15	96.26	96.19	70.85	37.25	17.71
8	Kundapura	3	3	94	35:54:00	163:45:00	16:16:00	11:52:00	28:08:00	64:02:00	21:20:40	98.74	97.13	669:22:00	223:07:20	97.71	96.96	64.03	31.33	21.34
9	Bhadravathi	27	27	517	1:50:00	554:08:00	500:00:00	80:25:00	580:25:00	582:15:00	21:33:53	97.11	97.10	4629:57:00	171:28:47	97.94	97.67	582.25	19.15	21.56
10	Thirahalli	3	3	62	0:00:00	88:45:00	15:45:00	5:10:00	20:55:00	20:55:00	6:58:20	99.06	99.06	318:25:00	106:08:20	98.96	98.55	20.92	20.67	6.97
11	Soraba	1	1	60	1:00:00	11:05:00	18:40:00	2:40:00	21:20:00	22:20:00	22:20:00	97.13	97.00	334:50:00	334:50:00	95.59	95.44	22.33	60.00	22.33
12	Hosnagara	1	1	47	20:35:00	271:40:00	10:15:00	7:30:00	17:45:00	38:20:00	38:20:00	97.61	94.85	510:25:00	510:25:00	96.75	93.05	38.33	47.00	38.33
13	Sagar	6	6	156	0:00:00	11:00:00	64:15:00	17:35:00	81:50:00	81:50:00	13:38:20	98.17	98.17	1753:10:00	292:11:40	96.05	96.02	81.83	26.00	13.64
14	Jog	3	3	21	0:00:00	18:20:00	4:25:00	2:25:00	6:50:00	6:50:00	2:16:40	99.69	99.69	401:05:00	133:41:40	98.26	98.18	6.83	7.00	2.28
15	Shikaripura	8	8	271	3:50:00	140:45:00	127:35:00	39:45:00	167:20:00	171:10:00	21:23:45	97.19	97.12	1306:20:00	163:17:30	98.02	97.78	171.17	33.88	21.40
16	Shiralkoppa	1	1	54	9:35:00	55:30:00	11:50:00	2:30:00	14:20:00	23:55:00	23:55:00	98.07	96.79	230:40:00	230:40:00	97.61	96.86	23.92	54.00	23.92
17	Mudigere	1	1	37	17:25:00	74:08:00	4:58:00	1:15:00	6:13:00	23:38:00	23:38:00	99.16	96.82	306:26:00	306:26:00	96.84	95.83	23.63	37.00	23.63
18	Koppa	1	1	65	6:20:00	187:05:00	7:05:00	6:30:00	13:35:00	19:55:00	19:55:00	98.17	97.32	531:10:00	531:10:00	95.31	92.77	19.92	65.00	19.92
19	Sringeri	1	1	47	13:50:00	348:20:00	4:00:00	2:45:00	6:45:00	20:35:00	20:35:00	99.09	97.23	497:25:00	497:25:00	97.97	93.23	20.58	47.00	20.58
20	N.R.Pura	1	1	131	1:25:00	93:35:00	19:15:00	7:55:00	27:10:00	28:35:00	28:35:00	96.35	96.16	391:25:00	391:25:00	95.94	94.67	28.58	131.00	28.58
21	Kadur	2	2	65	0:00:00	7:30:00	7:58:00	4:40:00	12:38:00	12:38:00	6:19:00	99.15	99.15	386:13:00	193:06:30	97.42	97.37	12.63	32.50	6.32
22	Tharikere	2	2	64	5:50:00	53:15:00	12:10:00	4:00:00	16:10:00	22:00:00	11:00:00	98.91	98.52	372:35:00	186:17:30	97.83	97.46	22.00	32.00	11.00
23	Birur	2	2	54	0:30:00	27:10:00	11:00:00	3:00:00	14:00:00	14:30:00	7:15:00	99.06	99.03	364:30:00	182:15:00	97.70	97.52	14.50	27.00	7.25
	<b>Total</b>	<b>98</b>	<b>98</b>	<b>4099</b>	<b>325:14:00</b>	<b>4983:38:00</b>	<b>1197:22:00</b>	<b>422:42:00</b>	<b>1620:04:00</b>	<b>1945:18:00</b>	<b>19:51:00</b>	<b>97.78</b>	<b>97.33</b>	<b>23179:06:00</b>	<b>236:31:17</b>	<b>97.47</b>	<b>96.78</b>	<b>1945.30</b>	<b>41.83</b>	<b>19.85</b>

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

# 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-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	481	11:17:00	87:46:00	62:59:00	89:18:00	152:17:00	163:34:00	18:10:27	97.73	97.56	1739:25:00	193:16:07	97.50	97.37	163.57	53.44	18.17
2	Kavoor	29	29	1052	0:42:00	438:25:00	154:24:00	144:32:00	298:56:00	299:38:00	10:19:56	98.61	98.61	4992:41:00	172:09:41	97.86	97.66	299.63	36.28	10.33
3	Puttur	53	53	4784	1018:07:00	15773:19:00	585:19:00	683:04:00	1268:23:00	2286:30:00	43:08:29	96.78	94.20	32812:46:00	619:06:32	95.62	91.57	2286.50	90.26	43.14
4	Bantwal	83	83	7251	854:05:00	7401:48:00	1038:20:00	671:20:00	1709:40:00	2563:45:00	30:53:19	97.23	95.85	27670:05:00	333:22:28	96.67	95.46	2563.75	87.36	30.89
5	Udupi	60	60	2930	111:05:00	2282:04:00	810:27:00	526:45:00	1337:12:00	1448:17:00	24:08:17	97.00	96.76	17460:45:00	291:00:45	96.56	96.04	1448.28	48.83	24.14
6	Kundapura	45	45	2504	648:44:00	4230:38:00	572:02:00	374:54:00	946:56:00	1595:40:00	35:27:33	97.17	95.23	18117:21:16	402:36:28	95.80	94.52	1595.67	55.64	35.46
7	Shivamogga	74	74	5910	12:20:00	1564:28:00	4532:53:00	1254:41:00	5787:34:00	5799:54:00	78:22:37	89.49	89.47	38434:34:00	519:23:10	93.22	92.93	5799.90	79.86	78.38
8	Bhadravathi	39	39	3091	172:19:00	2024:34:00	5651:03:00	666:20:00	6317:23:00	6489:42:00	166:24:09	78.23	77.63	44760:13:00	1147:41:52	85.08	84.37	6489.70	79.26	166.40
9	Sagar	67	67	5099	311:30:00	5199:45:00	5856:00:00	1152:10:00	7008:10:00	7319:40:00	109:14:56	85.94	85.32	70417:01:00	1051:00:01	86.75	85.69	7319.67	76.10	109.25
10	Shikaripura	136	136	13387	442:00:00	3669:13:00	41960:28:00	3313:06:00	45273:34:00	45715:34:00	336:08:38	55.26	54.82	174749:24:00	1284:55:19	82.87	82.50	45715.57	98.43	336.14
11	Chikkamagaluru	48	48	4140	319:48:00	3267:12:00	4471:29:00	858:43:00	5330:12:00	5650:00:00	117:42:30	85.07	84.18	38077:58:00	793:17:28	90.12	89.20	5650.00	86.25	117.71
12	Kadur	173	173	14720	193:10:00	3417:35:00	26949:57:00	3459:26:00	30409:23:00	30602:33:00	176:53:36	76.37	76.22	243744:21:00	1408:55:37	81.08	80.82	30602.55	85.09	176.89
13	Koppa	36	36	3179	256:21:00	8033:51:00	871:51:00	607:37:00	1479:28:00	1735:49:00	48:13:02	94.48	93.52	32798:44:00	911:04:33	90.63	87.59	1735.82	88.31	48.22
	<b>Total</b>	<b>852</b>	<b>852</b>	<b>68528</b>	<b>4351:28:00</b>	<b>57390:38:00</b>	<b>93517:12:00</b>	<b>13801:56:00</b>	<b>107319:08:00</b>	<b>111670:36:00</b>	<b>131:04:08</b>	<b>83.07</b>	<b>82.38</b>	<b>745775:18:16</b>	<b>875:19:23</b>	<b>89.00</b>	<b>88.08</b>	<b>111670.60</b>	<b>80.43</b>	<b>131.07</b>

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

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

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

Superintending Engineer(Ele)(Tech)  
MESCOM, Mangaluru