

# MANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

Annex- I

FORM-1

## RELIABILITY INDICES FOR DISTRICT HEAD QUARTERS IN MESCOM FOR THE MONTH FEBRUARY-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	1222	47:49:00	883:27:00	291:00:00	71:42:00	362:42:00	410:31:00	5:11:47	99.32	99.23	6939:03:49	87:50:10	99.04	98.90	410.52	15.47	5.20
2	Kavoor	35	35	612	123:24:48	1257:22:48	220:52:00	37:03:00	257:55:00	381:19:48	10:53:43	98.90	98.38	5094:10:48	145:32:53	98.63	98.18	381.33	17.49	10.90
3	Udupi	35	35	765	104:04:00	1081:31:00	234:33:00	119:51:00	354:24:00	458:28:00	13:05:57	98.49	98.05	5946:43:00	169:54:22	98.27	97.88	458.47	21.86	13.10
4	Shivamogga	38	38	687	1:30:00	76:57:00	297:05:00	61:35:00	358:40:00	360:10:00	9:28:41	98.60	98.59	4717:57:00	124:09:24	98.48	98.45	360.17	18.08	9.48
5	Chikkamagaluru	8	8	168	0:00:00	110:45:00	27:06:00	14:13:00	41:19:00	41:19:00	5:09:52	99.23	99.23	1068:10:00	133:31:15	98.51	98.33	41.32	21.00	5.16
	<b>Total</b>	<b>195</b>	<b>195</b>	<b>3454</b>	<b>276:47:48</b>	<b>3410:02:48</b>	<b>1070:36:00</b>	<b>304:24:00</b>	<b>1375:00:00</b>	<b>1651:47:48</b>	<b>8:28:15</b>	<b>98.95</b>	<b>98.74</b>	<b>23766:04:37</b>	<b>121:52:38</b>	<b>98.70</b>	<b>98.48</b>	<b>1651.80</b>	<b>17.71</b>	<b>8.47</b>

In Shivamogga out of 41 feeders load of 3 feeders were shifted to other feeders due to cable fault. Hence, total No. of feeders considered as 38.

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

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

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

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 FEBRUARY-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	210	0:00:00	176:16:00	131:36:00	12:27:00	144:03:00	144:03:00	18:00:23	97.32	97.32	1624:47:00	203:05:52	97.74	97.47	144.05	26.25	18.01
2	Bantwal	5	5	284	11:52:00	577:45:00	23:31:00	13:28:00	36:59:00	48:51:00	9:46:12	98.90	98.55	1217:26:00	243:29:12	98.40	96.96	48.85	56.80	9.77
3	Belthangadi	2	2	186	0:00:00	50:04:00	33:20:00	9:32:00	42:52:00	42:52:00	21:26:00	96.81	96.81	218:33:00	109:16:30	98.95	98.64	42.87	93.00	21.43
4	Puttur	12	12	528	134:20:00	549:13:00	104:03:00	51:48:00	155:51:00	290:11:00	24:10:55	98.07	96.40	3578:04:00	298:10:20	96.85	96.28	290.18	44.00	24.18
5	Kadaba	2	2	123	49:42:00	958:54:00	12:41:00	14:52:00	27:33:00	77:15:00	38:37:30	97.95	94.25	1630:56:00	815:28:00	95.81	89.83	77.25	61.50	38.63
6	Sullia	2	2	194	61:10:00	799:16:00	16:45:00	8:40:00	25:25:00	86:35:00	43:17:30	98.11	93.56	1474:36:00	737:18:00	95.79	90.80	86.58	97.00	43.29
7	Karkala	4	4	87	0:58:00	24:11:00	18:27:00	7:19:00	25:46:00	26:44:00	6:41:00	99.04	99.01	1147:17:00	286:49:15	96.50	96.42	26.73	21.75	6.68
8	Kundapura	3	3	72	11:06:00	174:51:00	15:33:00	6:57:00	22:30:00	33:36:00	11:12:00	98.88	98.33	702:58:00	234:19:20	97.80	97.08	33.60	24.00	11.20
9	Bhadravathi	27	27	468	42:35:00	596:43:00	115:36:00	29:41:00	145:17:00	187:52:00	6:57:29	99.20	98.96	4817:49:00	178:26:16	98.05	97.77	187.87	17.33	6.96
10	Thirthahalli	3	3	46	0:00:00	88:45:00	5:45:00	4:35:00	10:20:00	10:20:00	3:26:40	99.49	99.49	328:45:00	109:35:00	99.00	98.63	10.33	15.33	3.44
11	Soraba	1	1	42	1:15:00	12:20:00	16:40:00	6:25:00	23:05:00	24:20:00	24:20:00	96.56	96.38	359:10:00	359:10:00	95.67	95.52	24.33	42.00	24.33
12	Hosnagara	1	1	39	16:40:00	288:20:00	9:00:00	5:00:00	14:00:00	30:40:00	30:40:00	97.92	95.44	541:05:00	541:05:00	96.85	93.25	30.67	39.00	30.67
13	Sagar	6	6	172	0:00:00	11:00:00	171:40:00	9:45:00	181:25:00	181:25:00	30:14:10	95.50	95.50	1934:35:00	322:25:50	96.00	95.98	181.42	28.67	30.24
14	Jog	3	3	26	0:00:00	18:20:00	16:55:00	2:40:00	19:35:00	19:35:00	6:31:40	99.03	99.03	420:40:00	140:13:20	98.33	98.25	19.58	8.67	6.53
15	Shikaripura	8	8	192	3:35:00	144:20:00	45:10:00	10:20:00	55:30:00	59:05:00	7:23:07	98.97	98.90	1365:25:00	170:40:37	98.10	97.87	59.08	24.00	7.39
16	Shiralkoppa	1	1	47	0:35:00	56:05:00	5:30:00	1:30:00	7:00:00	7:35:00	7:35:00	98.96	98.87	238:15:00	238:15:00	97.73	97.03	7.58	47.00	7.58
17	Mudigere	1	1	49	10:55:00	85:03:00	5:51:00	1:37:00	7:28:00	18:23:00	18:23:00	98.89	97.26	324:49:00	324:49:00	97.01	95.95	18.38	49.00	18.38
18	Koppa	1	1	70	8:30:00	195:35:00	13:20:00	0:35:00	13:55:00	22:25:00	22:25:00	97.93	96.66	553:35:00	553:35:00	95.53	93.09	22.42	70.00	22.42
19	Sringeri	1	1	41	8:30:00	356:50:00	8:15:00	4:00:00	12:15:00	20:45:00	20:45:00	98.18	96.91	518:10:00	518:10:00	97.99	93.54	20.75	41.00	20.75
20	N.R.Pura	1	1	122	5:10:00	98:45:00	17:15:00	13:20:00	30:35:00	35:45:00	35:45:00	95.45	94.68	427:10:00	427:10:00	95.90	94.67	35.75	122.00	35.75
21	Kadur	2	2	106	2:20:00	9:50:00	26:50:00	4:20:00	31:10:00	33:30:00	16:45:00	97.68	97.51	419:43:00	209:51:30	97.44	97.38	33.50	53.00	16.75
22	Tharikere	2	2	91	7:30:00	60:45:00	22:10:00	6:15:00	28:25:00	35:55:00	17:57:30	97.89	97.33	408:30:00	204:15:00	97.83	97.45	35.92	45.50	17.96
23	Birur	2	2	69	3:50:00	31:00:00	16:30:00	7:10:00	23:40:00	27:30:00	13:45:00	98.24	97.95	392:00:00	196:00:00	97.75	97.55	27.50	34.50	13.75
	<b>Total</b>	<b>98</b>	<b>98</b>	<b>3264</b>	<b>380:33:00</b>	<b>5364:11:00</b>	<b>852:23:00</b>	<b>232:16:00</b>	<b>1084:39:00</b>	<b>1465:12:00</b>	<b>14:57:04</b>	<b>98.35</b>	<b>97.78</b>	<b>24644:18:00</b>	<b>251:28:21</b>	<b>97.55</b>	<b>96.86</b>	<b>1465.20</b>	<b>33.31</b>	<b>14.95</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]

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 FEBRUARY-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	342	5:16:00	93:02:00	68:47:00	17:53:00	86:40:00	91:56:00	10:12:53	98.57	98.48	1831:21:00	203:29:00	97.59	97.46	91.93	38.00	10.21
2	Kavoor	29	29	839	0:27:00	438:52:00	209:08:00	83:51:00	292:59:00	293:26:00	10:07:06	98.50	98.49	5286:07:00	182:16:48	97.91	97.73	293.43	28.93	10.12
3	Puttur	54	54	3976	1074:06:00	16847:25:00	556:35:00	433:39:00	990:14:00	2064:20:00	38:13:42	97.27	94.31	34877:06:00	645:52:20	95.83	91.94	2064.33	73.63	38.23
4	Bantwal	87	87	5539	643:40:00	8045:28:00	1551:38:00	583:17:00	2134:55:00	2778:35:00	31:56:16	96.35	95.25	30448:40:00	349:59:05	96.79	95.63	2778.58	63.67	31.94
5	Udupi	60	60	2305	144:45:00	2426:49:00	777:34:00	350:45:00	1128:19:00	1273:04:00	21:13:04	97.20	96.84	18733:49:00	312:13:49	96.61	96.10	1273.07	38.42	21.22
6	Kundapura	45	45	2481	237:02:00	4467:40:00	697:44:00	289:01:00	986:45:00	1223:47:00	27:11:43	96.74	95.95	19341:08:16	429:48:11	95.88	94.64	1223.78	55.13	27.20
7	Shivamogga	73	73	5347	91:55:00	1656:23:00	5286:54:00	783:13:00	6070:07:00	6162:02:00	84:24:41	87.63	87.44	44596:36:00	610:54:44	92.66	92.38	6162.03	73.25	84.41
8	Bhadravathi	39	39	2894	208:00:00	2232:34:00	5035:22:00	546:56:00	5582:18:00	5790:18:00	148:28:09	78.70	77.91	50550:31:00	1296:10:02	84.54	83.83	5790.30	74.21	148.47
9	Sagar	72	72	5254	290:45:00	5490:30:00	6962:20:00	1092:25:00	8054:45:00	8345:30:00	115:54:35	83.35	82.75	78762:31:00	1093:55:26	87.30	86.35	8345.50	72.97	115.91
10	Shikaripura	137	137	12248	53:48:00	3723:01:00	39739:07:00	2487:11:00	42226:18:00	42280:06:00	308:36:50	54.13	54.08	217029:30:00	1584:09:25	80.58	80.24	42280.10	89.40	308.61
11	Chikkamagaluru	48	48	4193	303:45:00	3570:57:00	5054:08:00	873:50:00	5927:58:00	6231:43:00	129:49:39	81.62	80.68	44309:41:00	923:07:06	89.41	88.48	6231.72	87.35	129.83
12	Kadur	175	175	15940	351:50:00	3769:25:00	24107:40:00	5365:35:00	29473:15:00	29825:05:00	170:25:45	74.94	74.64	273569:26:00	1563:15:14	80.77	80.50	29825.08	91.09	170.43
13	Koppa	36	36	3152	206:20:00	8240:11:00	2002:55:00	732:34:00	2735:29:00	2941:49:00	81:43:02	88.69	87.84	35740:33:00	992:47:35	90.47	87.61	2941.82	87.56	81.72
	<b>Total</b>	<b>864</b>	<b>864</b>	<b>64510</b>	<b>3611:39:00</b>	<b>61002:17:00</b>	<b>92049:52:00</b>	<b>13640:10:00</b>	<b>105690:02:00</b>	<b>109301:41:00</b>	<b>126:30:24</b>	<b>81.80</b>	<b>81.17</b>	<b>35628.21</b>	<b>41.24</b>	<b>88.53</b>	<b>87.65</b>	<b>109301.68</b>	<b>74.66</b>	<b>126.51</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= $\left[ \frac{\text{Total No of 11kv Feeders} \times 24 \text{ Hrs} \times \text{No. of days in the Month}}{\text{[outage duration of all 11kv feeders during the month in Hrs as in columns 8]}} \right] \times 100 / [\text{Total No of 11kv Feeders} \times 24 \text{Hrs} \times \text{No. of days in the Month}]$

# 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