

Appendix No(1)

Failure data for five machines for the year(2011)

Date	Type of machine	Time of stopping/Hr	Time of return/Hr	Failure time	Time between failure & failure	Power losses
4/2011	1	15:57	18:42	2.75	0	1980
4/2011	1	21:30	2:00	4.50	48	3240
5/2011	1	16:45	0:43	7.97	24	5736
8/2011	1	19:02	20:50	1.80	1704	26256
8/2011	1	17:22	1:08	7.77	504	756
8/2011	1	14:40	17:31	2.85	48	1296
2/2011	3	10:45	14:50	4.08	768	5592
3/2011	3	12:29	15:15	2.77	48	2052
4/2011	3	7:35	11:45	4.17	192	5880
5/2011	3	16:44	22:23	29.65	1008	60864
5/2011	3	13:01	14:47	1.77	240	3984
5/2011	3	15:53	16:52	0.98	10.98	6000
5/2011	3	17:34	21:27	3.88	72	42696
9/2011	3	11:20	13:00	1.67	2496	25400
9/2011	3	10:46	11:56	1.17	336	1416
9/2011	3	9:58	12:44	2.77	192	5592
2/2011	4	14:28	15:25	0.95	0	1680
2/2011	4	2:58	5:05	2.12	0.95	1368
2/2011	4	9:18	10:59	1.73	24	3048
2/2011	4	0:00	0	0	24	2496
3/2011	4	0:26	1:23	0.95	648	1368
3/2011	4	20:00	0:44	4.73	120	6816
4/2011	4	14:18	20:34	6.27	240	9024
4/2011	4	10:15	20:35	10.33	120	14880
4/2011	4	10:36	12:26	73.83	264	10632
4/2011	4	9:36	13:32	3.93	24	5664
4/2011	4	16:37	18:00	1.38	4	1992
4/2011	4	10:07	14:56	4.82	120	6936
5/2011	4	19:25	22:26	2.97	168	2016
5/2011	4	7:44	16:11	8.45	312	4272
5/2011	4	15:05	0:00	8.92	144	12168
6/2011	4	12:03	16:00	3.95	24	5688
6/2011	4	17:06	18:48	1.68	96	2424
6/2011	4	17:00	15:20	1.67	144	2400
6/2011	4	22:37	1:51	3.23	288	4656
6/2011	4	5:48	8:32	2.73	96	3936
6/2011	4	14:45	19:02	4.28	48	6168
7/2011	4	23:09	2:40	3.52	168	5064
7/2011	4	5:35	2:39	18.07	456	26016
8/2011	4	17:22	14:02	20.67	576	34720
8/2011	4	12:13	14:30	2.28	96	3288

9/2011	4	11:20	14:35	3.28	168	4680
9/2011	4	1:30	2:25	0.95	96	1320
9/2011	4	13:03	15:45	2.70	264	3888
9/2011	4	9:58	9:58	0	192	0
9/2011	4	15:10	20:42	5.53	48	7968
10/2011	4	14:40	17:20	5.67	672	3840
12/2011	4	23:00	2:04	3.07	288	4416
12/2011	4	4:58	6:16	1.80	1.30	1872
4/2011	5	7:35	13:34	5.98	5.98	3388
4/2011	5	10:23	12:24	2.02	528	3472
5/2011	5	10:35	12:39	2.07	48	4452
7/2011	5	23:43	2:22	2.65	1608	3388
3/2011	6	23:38	17:53	18.25	24	3472
4/2011	6	7:35	13:01	29.43	288	4452

Appendix No(2)

Failure data for five machines for the year(2012)

Date	Type of machine	Time of stopping/Hr	Time of return/Hr	Failure time	Time between failure & failure	Power losses
2/2012	1	9:00	23:23	14.38	0	4322
3/2012	1	10:15	12:27	2.20	912	66
3/2012	1	10:16	19:11	8.92	264	268
4/2012	1	22:35	0:00	1.42	120	43
4/2012	1	16:26	22:37	30.18	24	906
5/2012	1	16:50	21:22	30.53	1368	136
9/2012	1	19:50	21:15	1.42	2424	42
1/2012	3	23:15	1:42	2.45	2.45	147
1/2012	3	13:01	16:25	3.40	48	204
1/2012	3	7:53	7:53	0.00	24	6
3/2012	3	20:40	0:06	3.43	132	173
4/2012	3	18:09	18:58	0.82	744	49
4/2012	3	12:32	14:50	2.3	48	38
5/2012	3	16:50	20:05	3.25	1200	195
6/2012	3	9:06	0:00	14.90	192	894
9/2012	3	9:15	14:35	5.33	2256	320
11/2012	3	1:48	3:49	2.02	1368	121
1/2012	4	23:33	0:52	1.32	0	79
1/2012	4	10:30	21:02	10.53	10.53	134
1/2012	4	13:19	15:23	2.07	552	332
2/2012	4	17:38	23:10	5.53	552	79
3/2012	4	12:17	15:05	28.80	264	168
3/2012	4	8:15	21:56	13.68	240	821
3/2012	4	9:49	10:46	0.95	144	57
3/2012	4	1:55	23:10	21.25	216	1275
4/2012	4	12:44	14:41	1.95	312	117
4/2012	4	7:53	9:39	1.77	312	106
5/2012	4	16:50	0:35	7.75	888	465
6/2012	4	0:01	2:10	2.15	120	129
6/2012	4	4:51	9:40	4.82	24	289
7/2012	4	11:30	13:25	1.92	672	115
9/2012	4	15:06	13:39	22.55	984	1353
3/2012	5	6:07	23:42	41.58	0	4158
3/2012	5	9:50	11:03	1.22	120	122
3/2012	5	9:06	18:27	9.35	192	935
4/2012	5	7:21	0:00	16.65	864	1665
5/2012	5	16:25	0:00	31.17	864	3117
6/2012	5	9:57	2:13	16.27	912	1627
6/2012	5	5:00	11:18	6.30	216	630
7/2012	5	18:00	21:50	3.83	480	383
7/2012	5	23:55	2:42	2.78	24	278

9/2012	5	13:20	0:00	10.67	1704	1067
11/2012	5	1:59	1:59	0.00	1416	0
2/2012	6	15:57	17:41	1.73	0	173
4/2012	6	16:28	10:20	65.87	1080	6587
4/2012	6	16:14	0:00	7.77	240	777
5/2012	6	19:36	7:02	35.43	384	3543
5/2012	6	9:20	21:11	11.85	1200	1185
5/2012	6	3:13	0:00	20.78	24	2078

Appendix No(3)

Failure data for five machines for the year(2013)

Date	Type of machine	Time of stopping/Hr	Time of return/Hr	Failure time	Time between failure & failure	Power losses
4/2013	1	15:57	18:42	2.75	0	1980
4/2013	1	21:30	2:00	4.50	48	3240
5/2013	1	16:45	0:43	7.77	24	5736
5/2013	1	8:55	21:23	36.47	240	26256
5/2013	1	17:59	19:02	1.05	120	756
8/2013	1	19:02	20:50	1.80	2184	1296
8/2013	1	17:22	1:08	7.77	504	5592
8/2013	1	12:13	14:30	2.85	24	3288
2/2013	3	10:45	14:50	4.08	0	5880
3/2013	3	0:26	18:42	42.27	768	60864
3/2013	3	12:29	15:15	2.77	48	3984
4/2013	3	7:35	11:45	4.17	192	6000
5/2013	3	16:44	22:23	29.65	984	42696
5/2013	3	13:01	14:47	1.77	240	2544
5/2013	3	15:53	16:52	0.98	14	1416
5/2013	3	17:34	21:27	3.88	72	5592
8/2013	3	17:22	16:54	23.53	2136	3388
9/2013	3	11:20	13:00	1.67	264	2400
9/2013	3	10:46	11:56	1.17	336	1680
9/2013	3	9:58	12:44	2.77	192	3984
9/2013	3	17:20	22:00	4.67	24	6720
2/2013	4	14:28	15:25	0.95	0	1368
2/2013	4	2:58	5:05	2.12	24	3048
3/2013	4	9:15	10:59	1.73	24	2496
3/2013	4	0:26	1:23	0.95	720	1368
3/2013	4	20:00	0:44	4.73	120	6816
4/2013	4	14:18	20:34	6.27	264	9024
4/2013	4	10:15	20:35	10.33	120	14880
4/2013	4	10:36	12:26	73.83	216	106320
4/2013	4	9:36	13:22	3.93	24	5664
4/2013	4	16:37	18:00	1.38	9	1992
4/2013	4	10:07	14:56	4.82	120	6936
5/2013	4	6:24	7:48	1.40	48	2016
5/2013	4	19:28	22:26	2.97	240	4274
5/2013	4	7:44	16:11	8.45	312	5592
5/2013	4	15:05	0:00	8.92	144	12840
6/2013	4	12:03	16:00	3.95	24	5688
6/2013	4	17:06	18:47	1.68	72	2424
6/2013	4	15:20	17:00	1.67	144	2400
6/2013	4	22:37	1:51	3.23	288	4656
6/2013	4	5:48	8:32	2.73	96	3936

6/2013	4	14:45	19:02	4.28	48	6168
7/2013	4	23:09	2:40	3.52	168	5064
7/2013	4	5:35	23:39	18.07	552	26016
8/2013	4	17:22	14:02	20.67	552	34720
9/2013	4	11:20	14:35	3.25	288	4680
9/2013	4	1:30	2:25	0.92	96	1320
9/2013	4	13:03	15:45	2.70	1	3888
9/2013	4	9:58	9:58	0.0	1	0
9/2013	4	15:10	20:42	5.53	24	7968
10/2013	4	14:40	17:20	2.67	696	3840
12/2013	4	23:00	2:04	3.07	1056	1872
4/2013	5	7:35	13:34	5.98	0	10052
4/2013	5	10:23	12:24	2.02	528	3388
5/2013	5	10:35	12:39	2.07	288	3472
7/2013	5	23:43	2:22	2.65	1584	4452
3/2013	6	23:38	17:53	18.25	0	30660
4/2013	6	7:35	13:01	27.43	240	49448
5/2013	6	10:34	12:44	2.17	792	3640
8/2013	6	17:22	3:24	10.03	2640	16856
8/2013	6	9:15	12:45	3.50	96	5880

Appendix No(4)

Failure data for five machines for the year(2014)

Date	Type of machine	Time of stopping/Hr	Time of return/Hr	Failure time	Time between failure & failure	Power losses
7/2014	1	0:00	22:25	1.58	0	43
7/2014	1	10:12	6:35	3.62	480	181
7/2014	1	2:30	0:48	1.70	144	85
7/2014	1	4:10	2:12	1.97	24	98
4/2014	3	7:48	6:30	1.30	0	65
4/2014	3	10:21	9:16	1.08	26	54
5/2014	3	17:53	0:40	17.22	960	861
8/2014	3	19:03	18:16	0.78	1968	39
8/2014	3	0:37	17:26	7.18	240	359
9/2014	3	9:33	20:47	12.77	192	638
9/2014	3	7:03	20:50	10.22	288	511
9/2014	3	14:37	21:51	1.77	144	88
10/2014	3	0:00	9:38	14.37	792	718
10/2014	3	23:52	22:59	0.88	120	44
1/2014	4	0:00	22:28	1.53	0	77
1/2014	4	13:00	11:04	1.93	384	97
2/2014	4	14:59	9:31	5.47	313	273
3/2014	4	13:17	10:27	2.83	600	142
3/2014	4	0:00	21:09	2.85	192	143
3/2014	4	23:53	23:05	0.8	24	40
6/2014	4	17:11	3:27	13.73	2256	687
7/2014	4	19:00	11:01	3.62	720	181
6/2014	6	22:38	10:49	11.95	0	598
11/2014	6	13:11	10:11	3.00	3096	150

Appendix No(5)

Failure data for five machines for the year(2015)

Date	Type of machine	Time of stopping/Hr	Time of return/Hr	Failure time	Time between failure & failure	Power losses
1/2015	1	7:55	11:57	4.03	0	121
1/2015	1	17:42	18:55	1.21	24	37
4/2015	1	11:40	12:33	0.88	768	27
4/2015	1	14:40	17:20	2.77	216	83
5/2015	1	20:30	0:00	3.50	456	95
5/2015	3	20:30	3:49	7.32	0	336
5/2015	3	18:06	18:56	0.83	432	42
5/2015	5	8:45	14:03	5.30	0	530
5/2015	6	11:25	20:38	9.22	0	922
5/2015	6	23:35	5:00	5.42	3	542
5/2015	6	20:30	0:00	10.33	48	350
5/2015	6	20:23	2:51	6.47	48	647
5/2015	6	13:00	23:08	10.13	24	1013