

पावर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड  
(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)  
**POWER SYSTEM OPERATION CORPORATION LIMITED**  
(A wholly owned subsidiary of POWERGRID)



राष्ट्रीय भार प्रेषण केन्द्र : बी - 9, कुतुब इंस्टीट्यूशनल एरिया, कटवारिया सराय, नई दिल्ली - 110016  
National Load Despatch Centre : B - 9, Qutab Institutional Area, Katwaria Sarai, New Delhi - 110016  
Website : www.nldc.in, www.nldcindia.in, Tel. : 011-26536832, 26524522, Fax : 011-26524525, 26536901

संदर्भ संख्या:-POSOCO/NLDC/GM/

दिनांक: 22.04.2016

सेवा में,

वितरण सूची के अनुसार

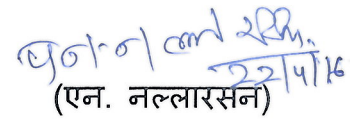
विषय:- निष्पादन रिपोर्ट - मार्च 2016

महोदय,

आई०ई०जी०सी०-2010 के प्रावधान के अनुसार, मार्च 2016 माह की अखिल भारतीय प्रणाली की निष्पादन रिपोर्ट संलग्न है।

धन्यवाद

भवदीय

  
(एन. नल्लारसन)

उप महाप्रबंधक

(रा०भा०प्रे०के०)

संलग्नक: मासिक प्रणाली रिपोर्ट

## वितरण सूची Distribution List

- 1 सचिव, के.वि.नि.आ. तीसरा एवं चौथा तल, चंद्रलोक भवन, 36, जनपथ, नई दिल्ली-110001  
Secretary, CERC, 3<sup>rd</sup> & 4<sup>th</sup> Floor, Chanderlok Building, 36, Janpath, New Delhi-110001
- 2 मुख्य अभियंता (जी एम), के.वि.प्रा., सेवा भवन, आर. के. पुरम, नई दिल्ली-110066  
Chief Engineer (GM), CEA, Sewa Bhavan, R.K.Puram, New Delhi-110066
- 3 सदस्य सचिव, उ. क्षे. वि. स., 18/ए, शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली - 110016  
Member Secretary, NRPC, 18/A, SJSS Marg, Katwaria Sarai, New Delhi-110016
- 4 सदस्य सचिव, प. क्षे. वि. स., एफ-3, एम आई डी सी क्षेत्र, अंधेरी(पूर्व), मुंबई - 400093  
Member Secretary, WRPC, F-3, MIDC Area, Andheri (East), Mumbai-400093
- 5 सदस्य सचिव, द. क्षे. वि. स., 29, रेस कोर्स क्रॉस रोड, बंगलूरु - 560009  
Member Secretary, SRPC, 29, Race Course Cross Road, Bangalore-560009
- 6 सदस्य सचिव, पू. क्षे. वि. स., 14, गोल्फ क्लब रोड, कोलकाता - 700033  
Member Secretary, ERPC, 14, Golf Club Road, Kolkata-700033
- 7 सदस्य सचिव, उ. पू. क्षे. वि. स., मेघालय राज्य आवासीय वित्त सहकारी समिति लिमिटेड भवन, नॉग्रिम हिल्स, शिलोंग - 793003  
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- 8 महाप्रबंधक, पू. क्षे. भा. प्रे. के., 14, गोल्फ क्लब रोड, कोलकाता - 700033  
General Manager, ERLDC, 14, Golf Club Road, Kolkata-700033
- 9 महाप्रबंधक, प. क्षे. भा. प्रे. के., एफ-3, एम आई डी सी क्षेत्र, अंधेरी(पूर्व), मुंबई - 400093  
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Executive Director, NRLDC, 18/A, SJSS Marg, Katwaria Sarai, New Delhi-110016
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General Manager, NERLDC, Dongtiah, Lower Nongrah, Laplang, Shillong-793006



# POWER SYSTEM OPERATION CORPORATION LIMITED

(A wholly owned subsidiary of POWERGRID)

पावर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड

NATIONAL LOAD DESPATCH CENTRE –राष्ट्रीय भार प्रेषण केन्द्र

मासिक ऑपरेशन रिपोर्ट

Monthly  
Operation Report



मार्च 2016

पावर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड  
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

**POWER SYSTEM OPERATION CORPORATION LTD**  
**NATIONAL LOAD DESPATCH CENTRE, NEW DELHI**



**माह मार्च 2016 के लिए प्रचालन निष्पादन रिपोर्ट**  
**OPERATIONAL PERFORMANCE REPORT FOR THE**  
**MONTH OF MARCH 2016**

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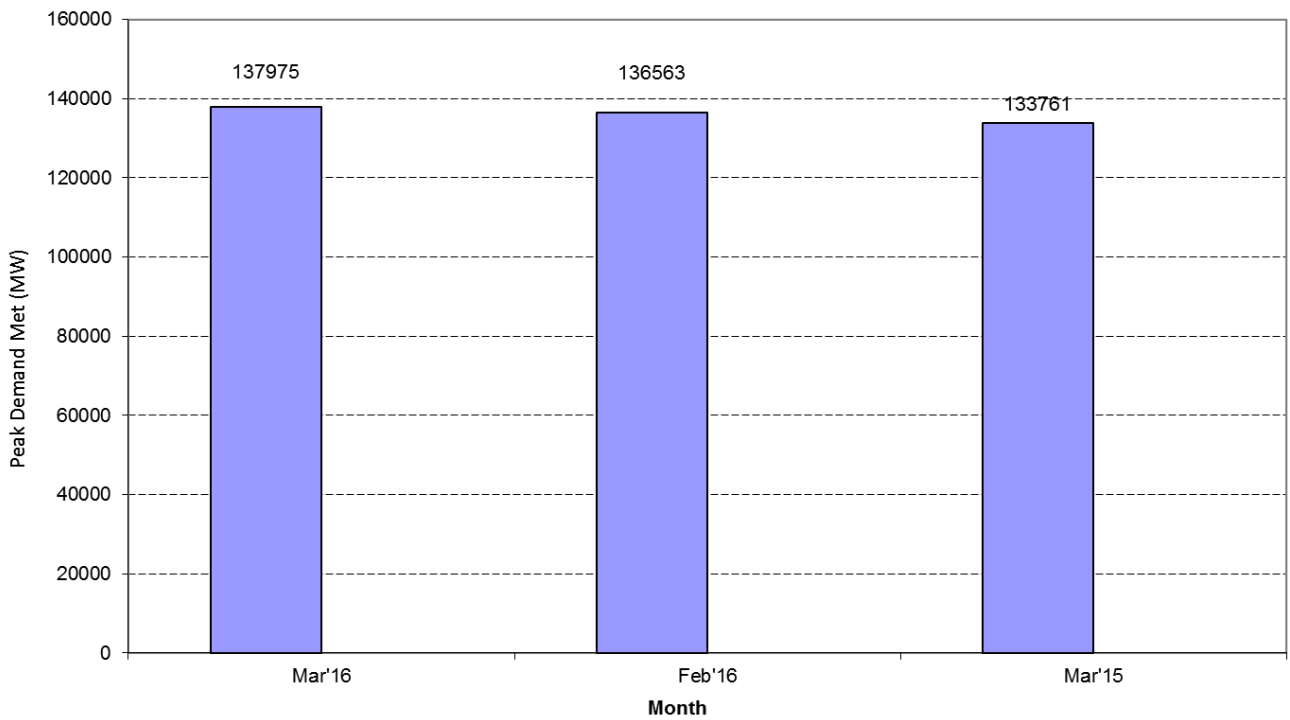
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# 1. SUMMARY OF REPORT FOR THE MONTH OF MARCH 2016

Peak Demand Met

Increased by 1.03% as compared to Feb 2016

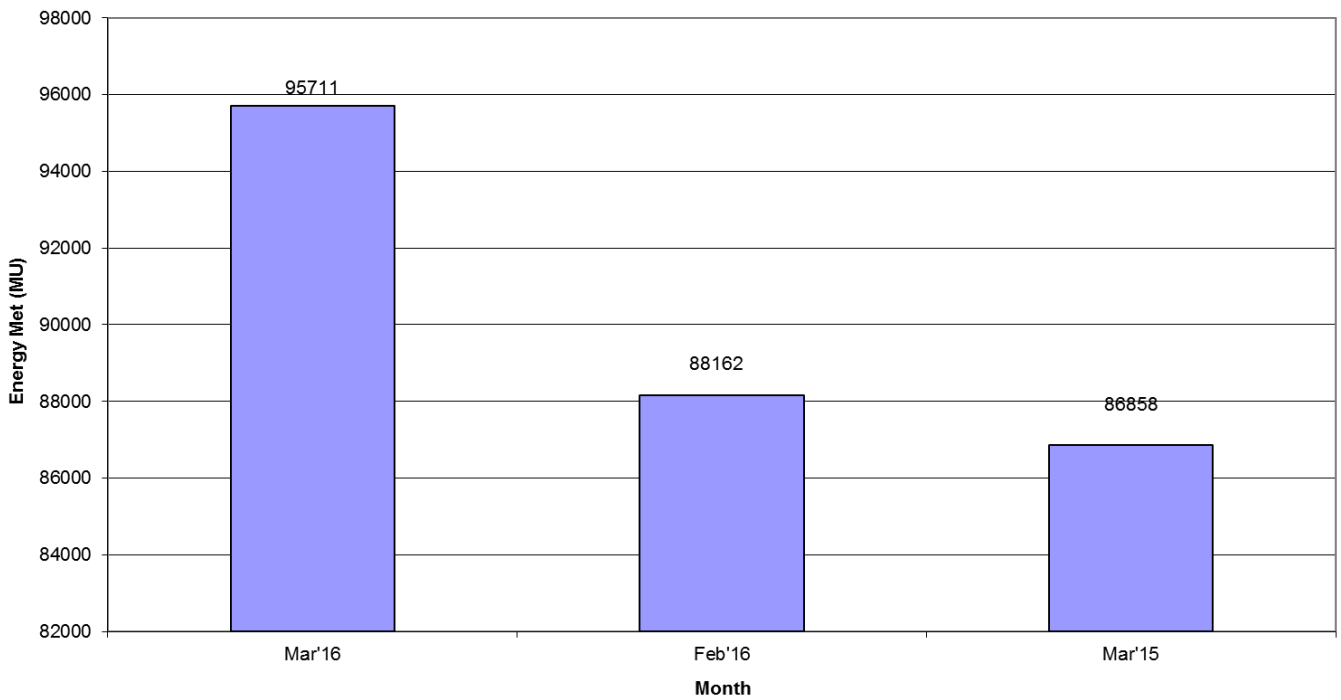
Increased by 3.15% as compared to Mar 2015



Energy Met

Increased by 8.56% as compared to Feb 2016

Increased by 10.19% as compared to Mar 2015

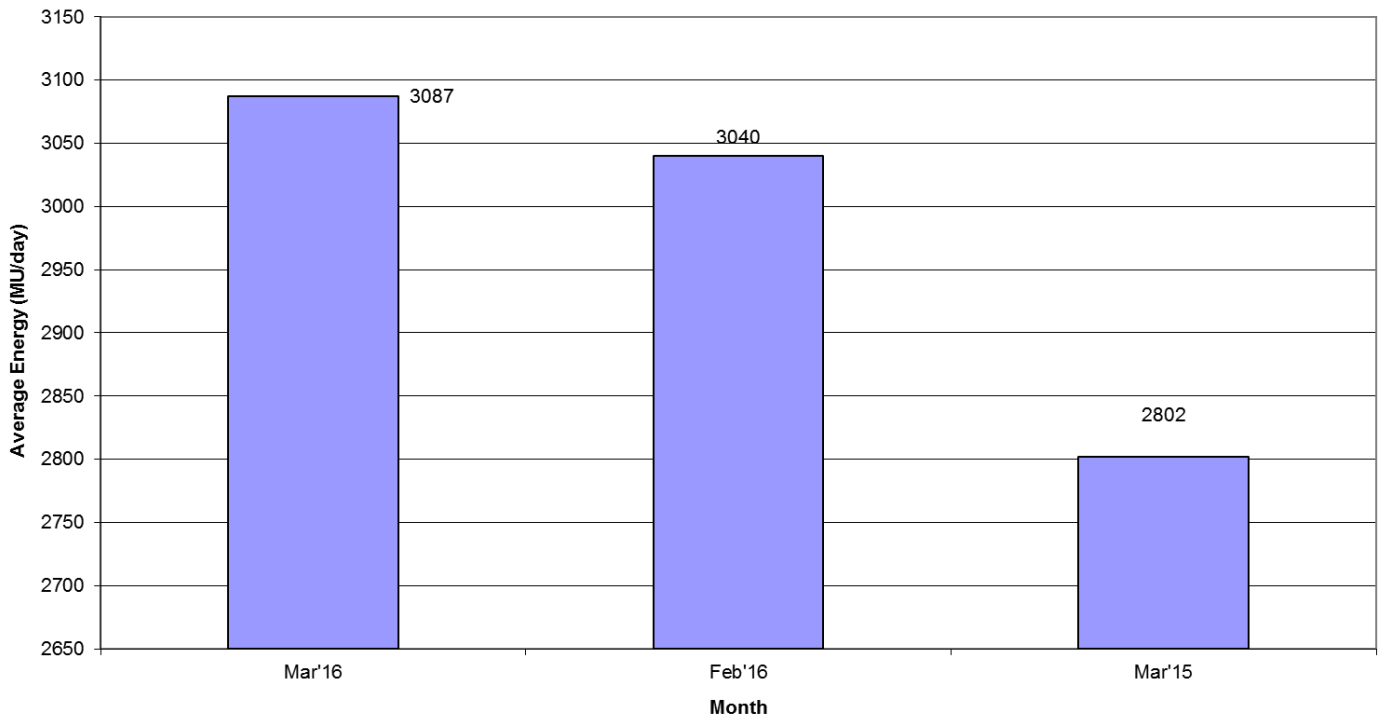


# 1. SUMMARY OF REPORT FOR THE MONTH OF MARCH 2016

Average Energy (MU/day)

Increased by 1.56% as compared to Feb 2016

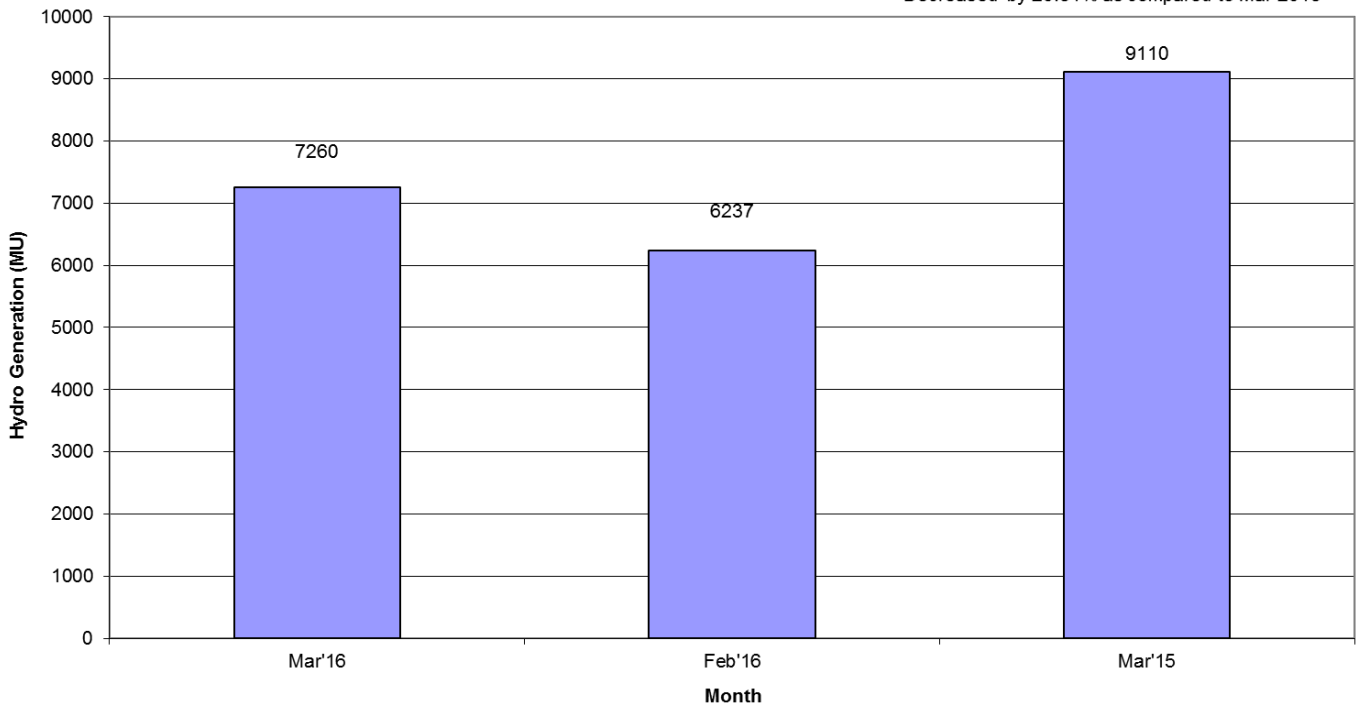
Increased by 10.19% as compared to Mar 2015



Hydro generation

Increased by 16.4% as compared to Feb 2016

Decreased by 20.31% as compared to Mar 2015

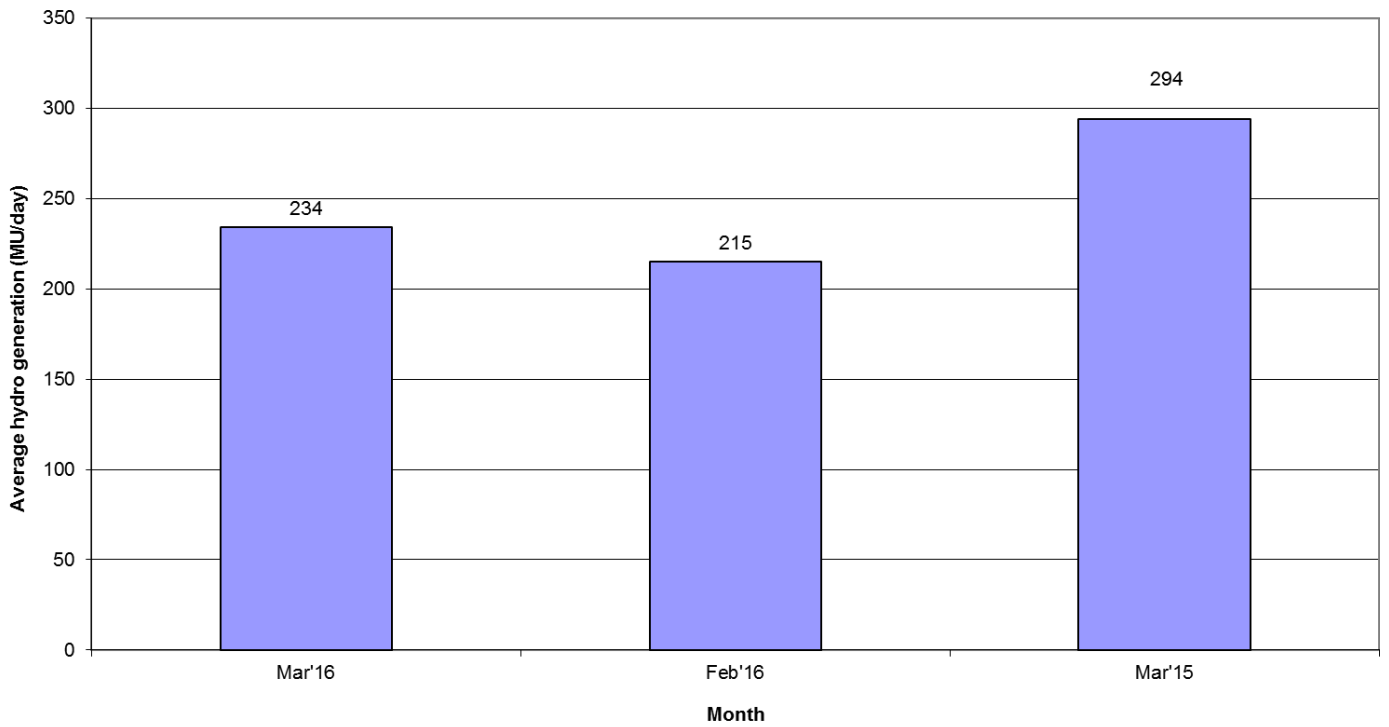




# 1. SUMMARY OF REPORT FOR THE MONTH OF MARCH 2016

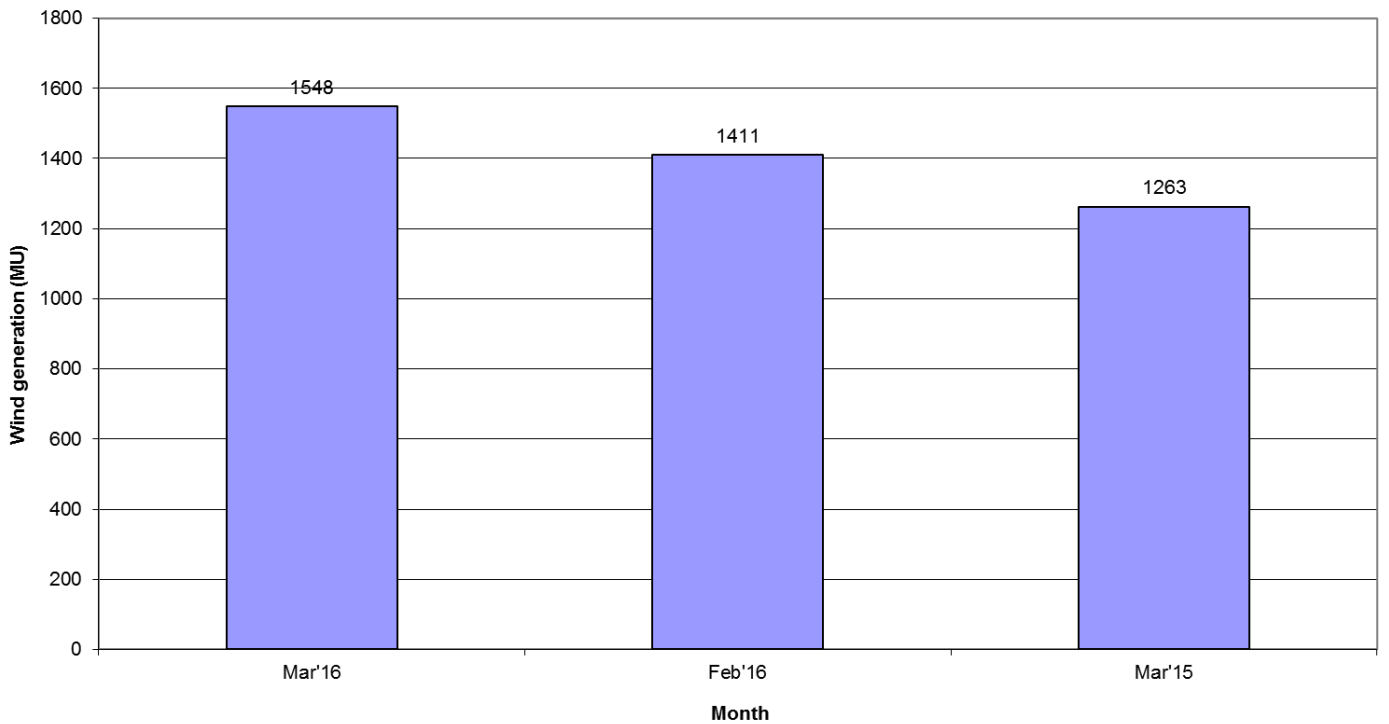
Average Hydro Generation

Increased by 8.89% as compared to Feb 2016  
Decreased by 20.31% as compared to Mar 2015



Wind Generation

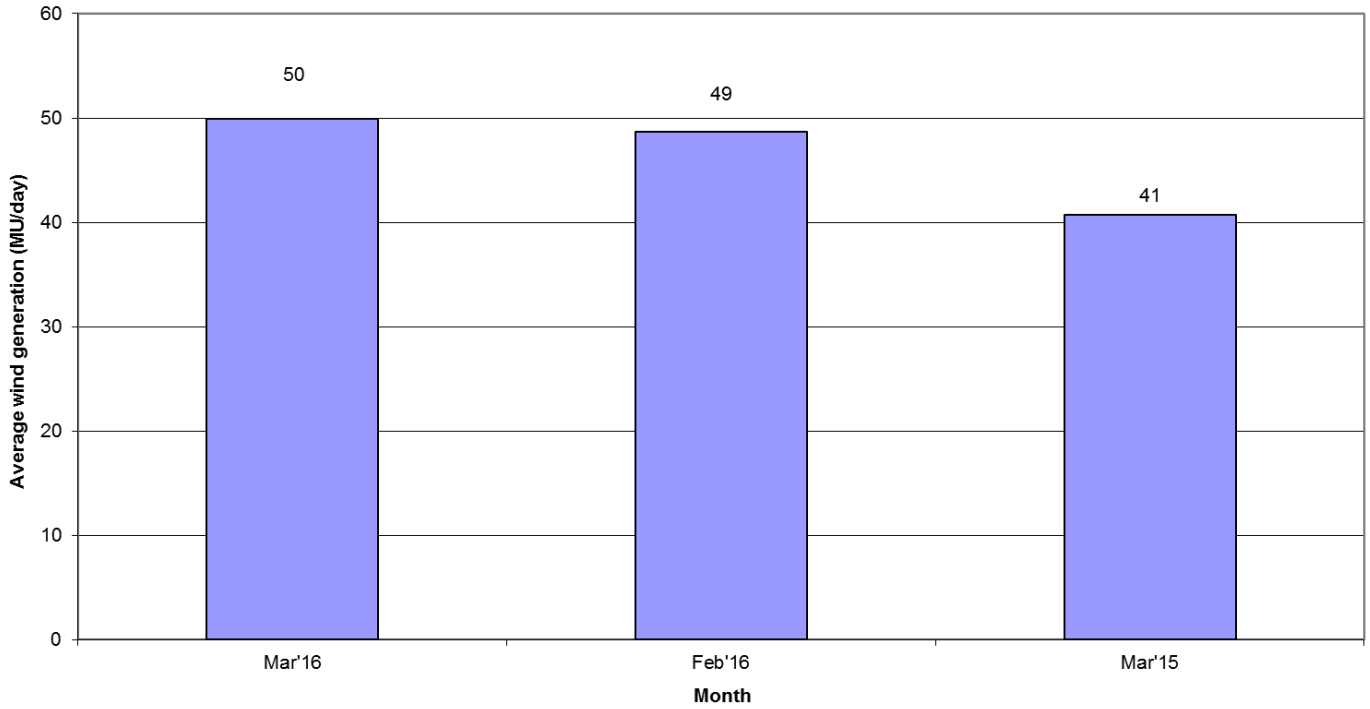
Increased by 9.75% as compared to Feb 2016  
Increased by 22.62% as compared to Mar 2015



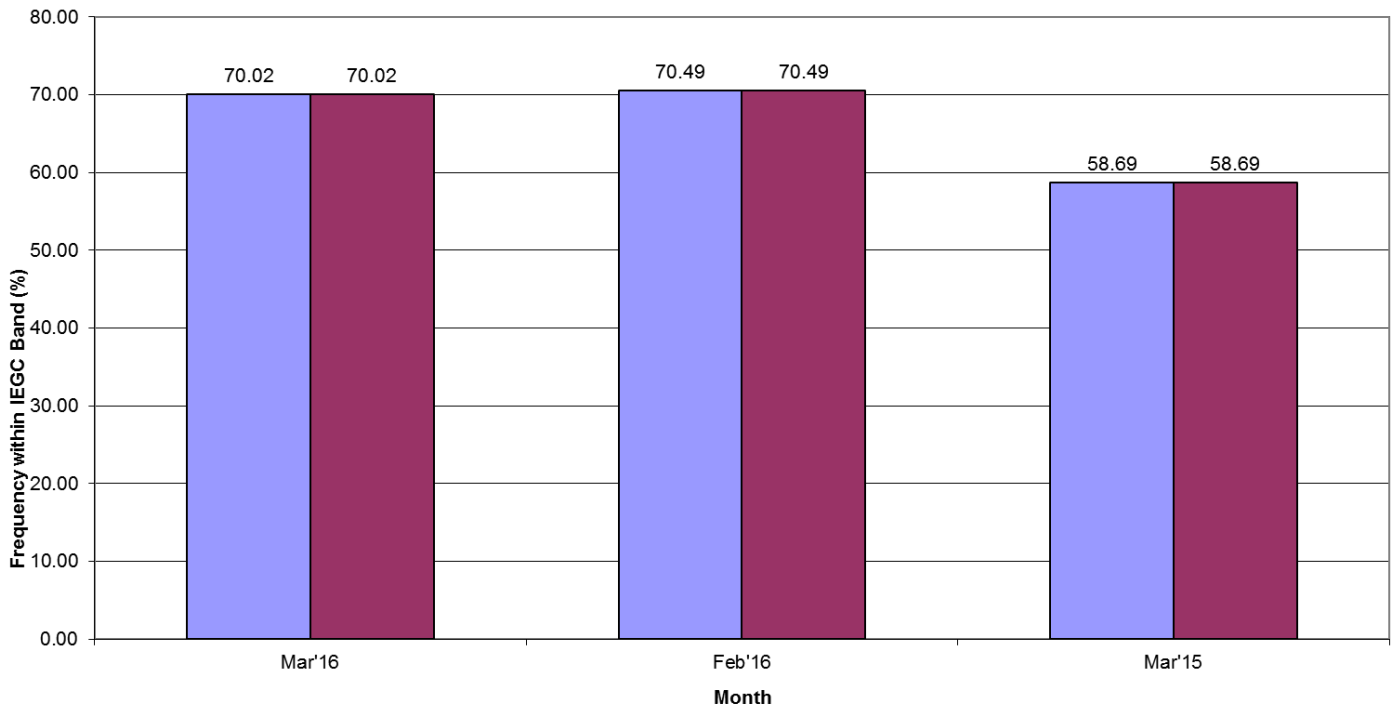
# 1. SUMMARY OF REPORT FOR THE MONTH OF MARCH 2016

Average wind generation (MU/day)

Increased by 2.67% as compared to Feb 2016  
 Increased by 22.62% as compared to Mar 2015



Frequency within IEGC Band



- W.e.f 17<sup>th</sup> Feb 2014, IEGC Band has been changed to 49.90 to 50.05 from 49.70 – 50.20

(2) ALL INDIA REGIONWISE INSTALLED CAPACITY

As on 31.03.2016  
(All figures are in MW)

S No	Region	THERMAL				NUCLEAR	HYDRO	RES @ MNRE	GRAND TOTAL
		COAL	GAS	DIESEL	TOTAL				
1	NR	45645	5331	0	50976	1620	18247	8167	79009
2	WR	72153	10815	0	82968	1840	7448	13698	105954
3	SR	36443	6474	917	43834	2320	11558	16213	73925
4	ER	30623	190	0	30813	0	4289	470	35572
5	NER	310	1698	36	2044	0	1242	263	3549
6	ISLANDS	0	0	40	40	0	0	11	51
		185173	24508	994	210675	5780	42783	38821	298059

Remarks: Data from CEA website

**3. राष्ट्रीय स्तर पर संध्याकालीन शिखर विद्युत मांग पूर्ति**

**PEAK DEMAND MET AT NATIONAL LEVEL**

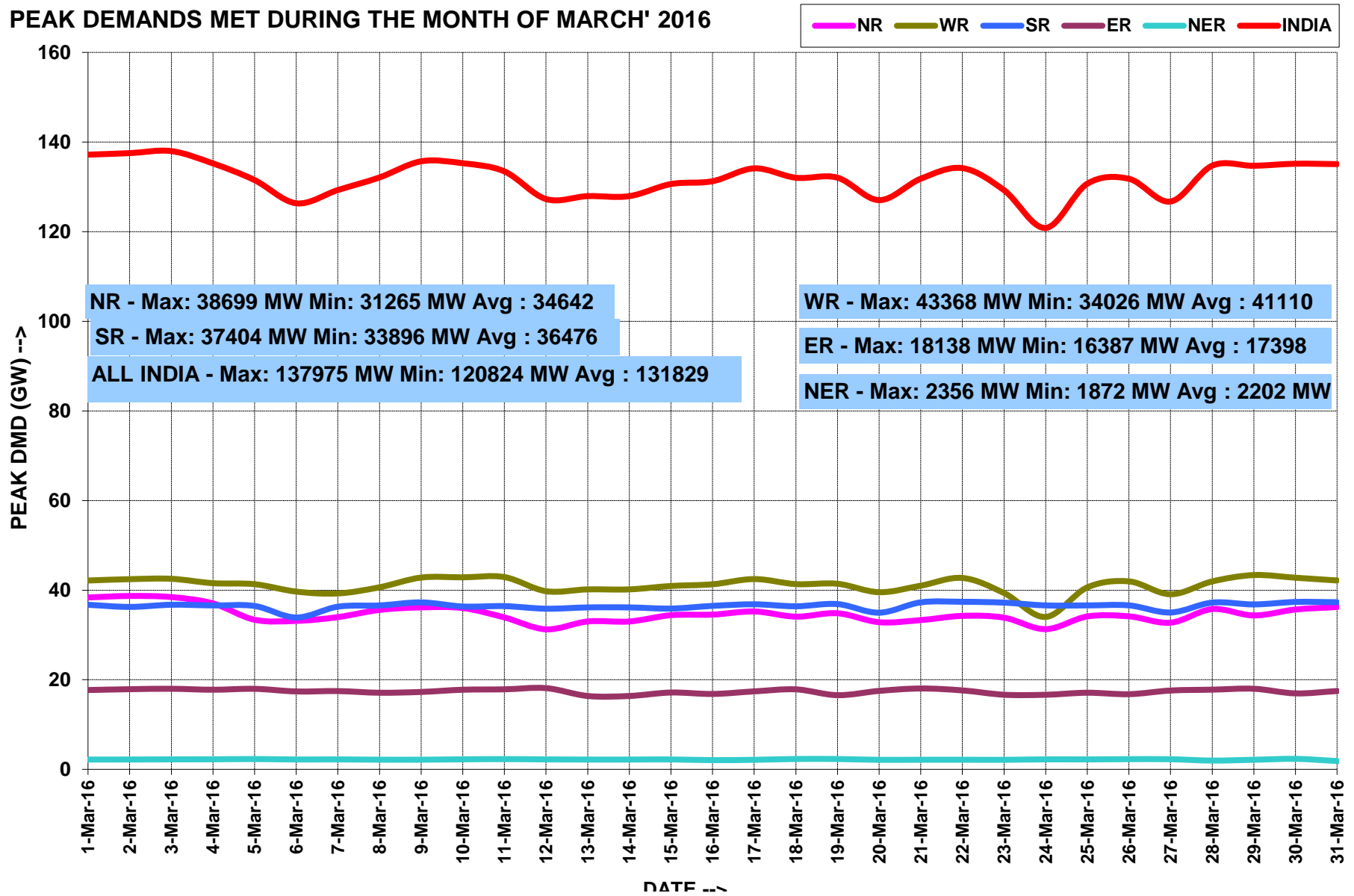
माह:- मार्च 2016      MONTH:- March 2016

सभी आंकड़े मेगावाट मे    All figures in MW

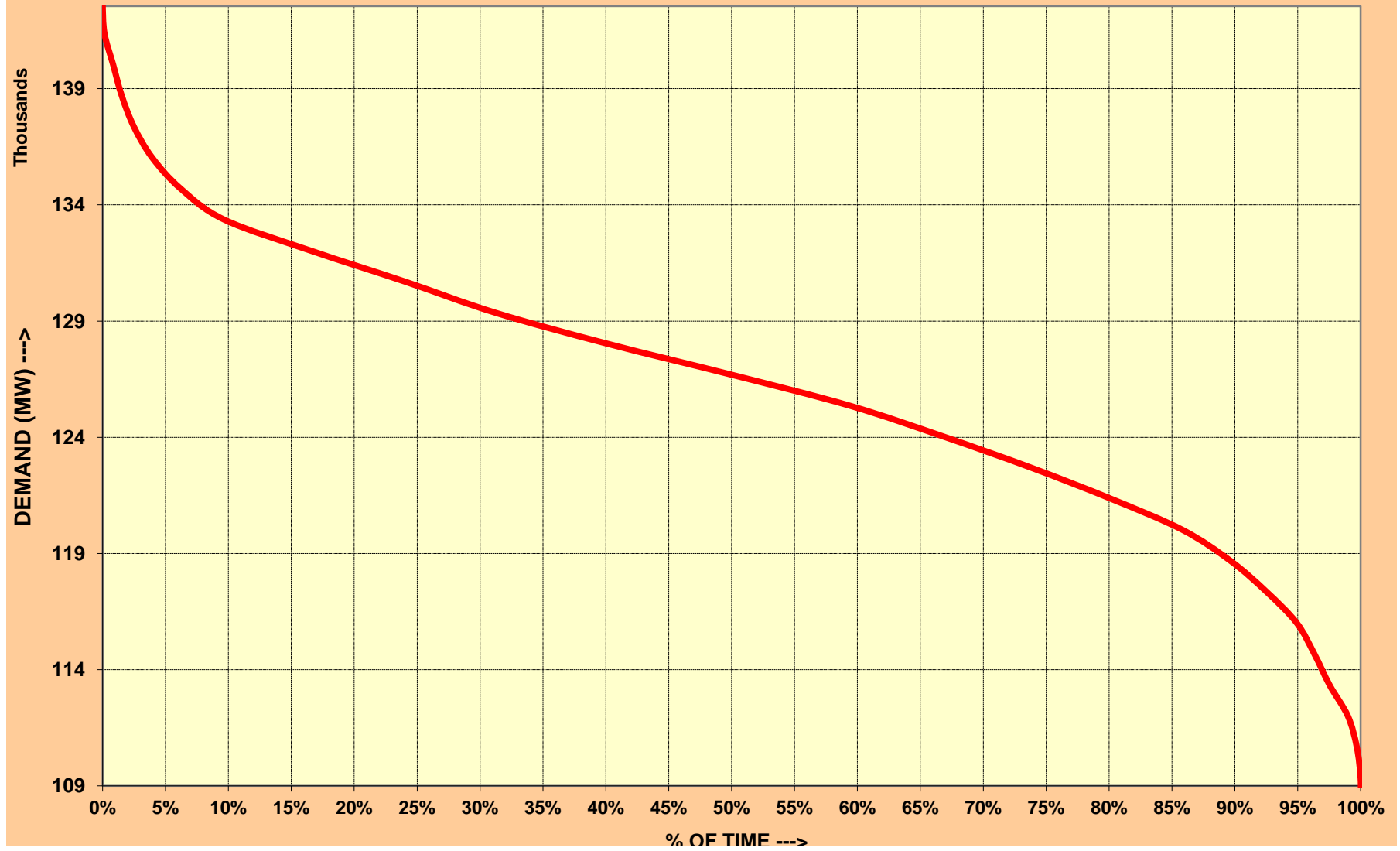
दिनांक Date	उत्तरी क्षे. NR	पश्चिमी क्षे. WR	दक्षिणी क्षे. SR	पूर्वी क्षे. ER	पूर्वोत्तर क्षे. NER	कुल TOTAL
01-Mar-16	38377	42154	36737	17712	2202	137182
02-Mar-16	38699	42454	36260	17899	2210	137522
03-Mar-16	38456	42535	36745	17996	2243	137975
04-Mar-16	37042	41556	36588	17781	2257	135224
05-Mar-16	33398	41330	36473	17984	2315	131500
06-Mar-16	33143	39680	33896	17398	2214	126331
07-Mar-16	33986	39271	36316	17481	2234	129288
08-Mar-16	35595	40641	36586	17108	2170	132100
09-Mar-16	36155	42815	37270	17289	2170	135699
10-Mar-16	36012	42865	36355	17779	2252	135263
11-Mar-16	33917	42919	36437	17871	2301	133445
12-Mar-16	31265	39772	35864	18138	2236	127275
13-Mar-16	33017	40175	36148	16387	2199	127926
14-Mar-16	33017	40175	36148	16387	2199	127926
15-Mar-16	34414	40931	35895	17156	2228	130624
16-Mar-16	34543	41312	36494	16840	2067	131256
17-Mar-16	35245	42475	36848	17414	2145	134127
18-Mar-16	34094	41348	36402	17865	2325	132034
19-Mar-16	34845	41424	36893	16564	2320	132046
20-Mar-16	32849	39546	34973	17524	2138	127030
21-Mar-16	33318	41003	37282	18057	2155	131815
22-Mar-16	34264	42724	37404	17631	2158	134182
23-Mar-16	33864	39359	37218	16666	2145	129252
24-Mar-16	31300	34026	36593	16658	2247	120824
25-Mar-16	34132	40628	36593	17113	2235	130701
26-Mar-16	34161	41959	36601	16786	2287	131794
27-Mar-16	32740	39092	35018	17605	2270	126725
28-Mar-16	35779	41949	37227	17796	1973	134724
29-Mar-16	34359	43368	36819	17999	2154	134700
30-Mar-16	35686	42775	37371	16965	2356	135153
31-Mar-16	36235	42159	37309	17495	1872	135070
उच्चतम MAXIMUM	38699	43368	37404	18138	2356	137975
निम्नतम MINIMUM	31265	34026	33896	16387	1872	120824
औसत AVERAGE	34642	41110	36476	17398	2202	131829
अब तक का उच्चतम All Time Max.	50354	47617	37404	18574	2356	147655
दिनांक Date	11.09.15	20.10.15	22.03.16	17.10.15	30.03.16	11.09.15

नोट : सभी आंकड़े 1900 बजे की मांगपूर्ति पर आधारित हैं । Note: The above figures corresponds to value at 1900 Hrs

# PEAK DEMANDS MET DURING THE MONTH OF MARCH' 2016



# ALL INDIA LOAD DURATION CURVE FOR MARCH' 2016

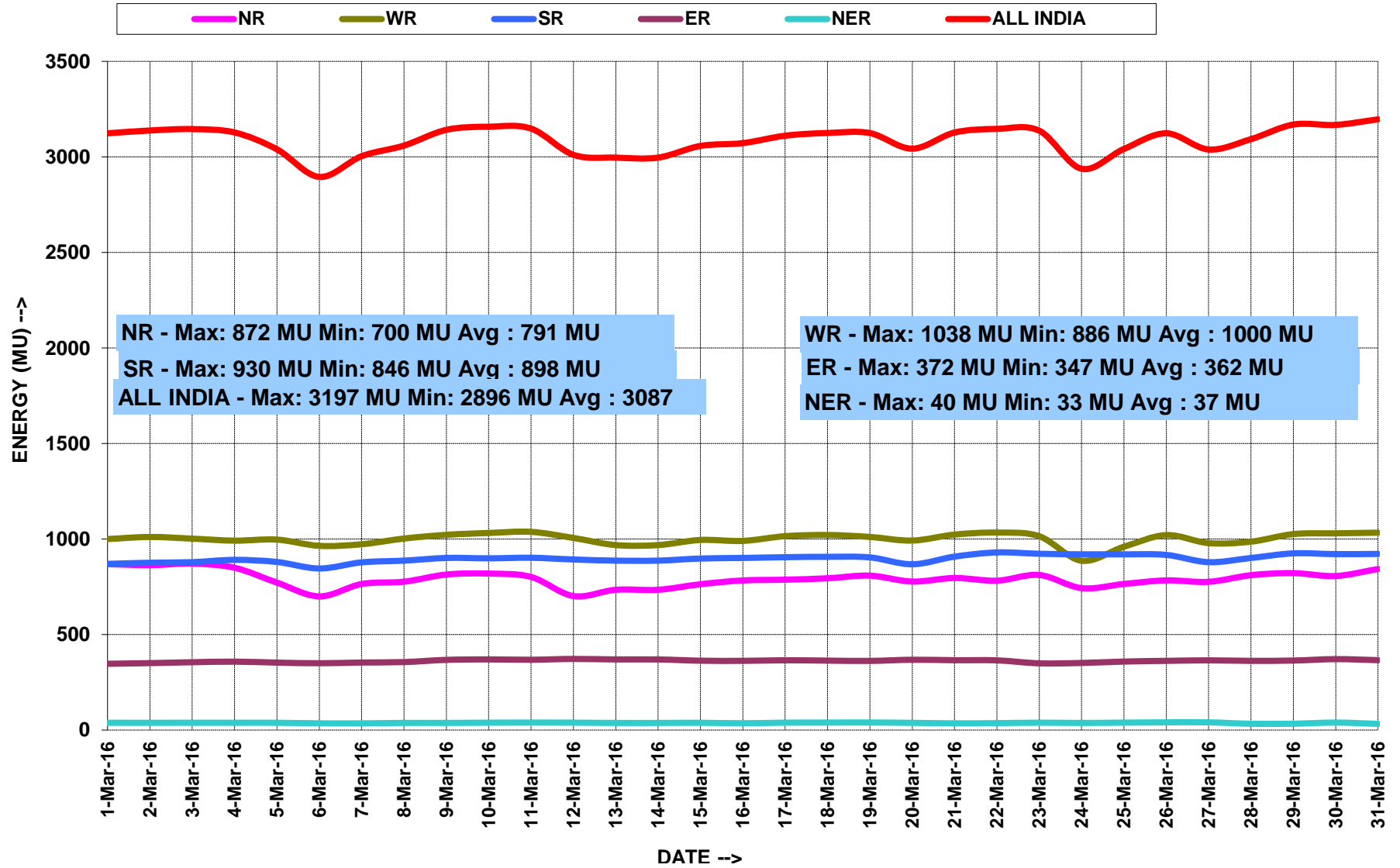


4. राष्ट्रीय स्तर पर विद्युत ऊर्जा आपूर्ति ENERGY MET AT NATIONAL LEVEL

माह:- मार्च 2016 MONTH:- March 2016  
सभी आंकड़े मिलियन यूनिट में All figures in MU

दिनांक Date	उत्तरी क्षे. NR	पश्चिमी क्षे. WR	दक्षिणी क्षे. SR	पूर्वी क्षे. ER	पूर्वोत्तर क्षे. NER	कुल TOTAL
01-Mar-16	869	1000	870	347	38	3124
02-Mar-16	863	1011	876	351	38	3139
03-Mar-16	872	1002	879	355	38	3146
04-Mar-16	850	992	891	358	38	3128
05-Mar-16	772	997	880	353	38	3040
06-Mar-16	700	964	846	350	35	2896
07-Mar-16	765	973	878	354	35	3004
08-Mar-16	777	1003	887	356	37	3060
09-Mar-16	814	1022	901	368	37	3142
10-Mar-16	819	1032	899	370	39	3158
11-Mar-16	802	1038	902	368	39	3149
12-Mar-16	702	1006	893	372	39	3011
13-Mar-16	734	968	887	370	37	2997
14-Mar-16	734	968	887	370	37	2997
15-Mar-16	764	995	898	363	38	3058
16-Mar-16	783	990	901	362	36	3072
17-Mar-16	787	1015	905	365	39	3111
18-Mar-16	795	1021	907	364	39	3126
19-Mar-16	808	1011	904	362	40	3125
20-Mar-16	778	992	868	368	38	3043
21-Mar-16	796	1023	908	366	35	3128
22-Mar-16	782	1034	930	365	36	3147
23-Mar-16	812	1015	923	349	39	3138
24-Mar-16	743	886	920	351	37	2938
25-Mar-16	765	960	920	359	39	3042
26-Mar-16	784	1021	917	362	40	3124
27-Mar-16	776	979	879	365	40	3039
28-Mar-16	811	986	901	362	33	3093
29-Mar-16	822	1026	925	364	33	3170
30-Mar-16	807	1030	921	371	39	3168
31-Mar-16	843	1033	922	366	33	3197
कुल TOTAL	24526	30993	27825	11207	1161	95711
उच्चतम MAXIMUM	872	1038	930	372	40	3197
निम्नतम MINIMUM	700	886	846	347	33	2896
औसत AVERAGE	791	1000	898	362	37	3087
अब तक का उच्चतम All Time Max.	1147	1131	930	387	44	3342
दिनांक Date	11.09.15	20.10.15	22.03.16	03.10.15	18.09.15	11.09.15

### ENERGY MET DURING THE MONTH OF MARCH' 2016





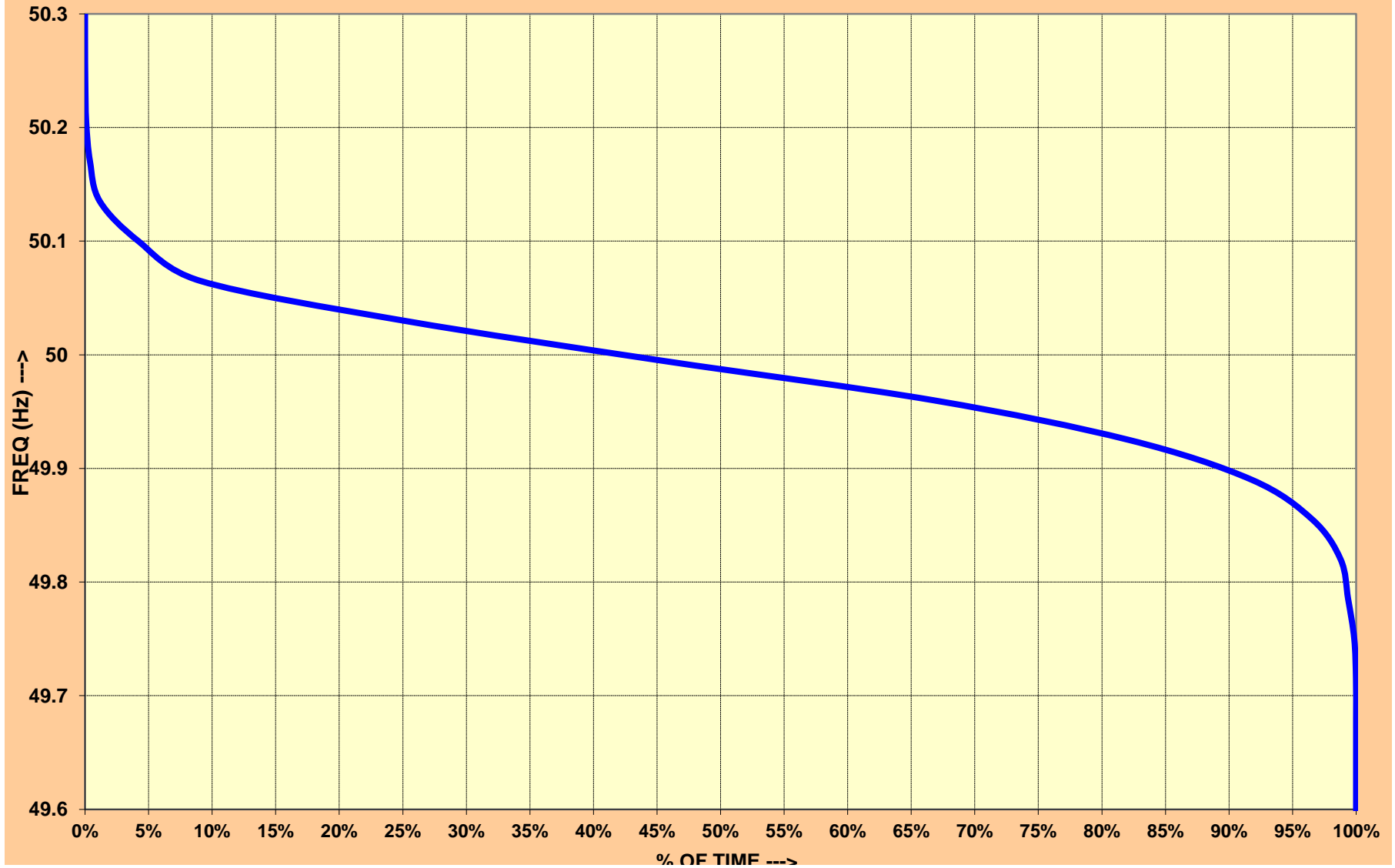
**5.वर्ष 2015-16 के लिए आवृत्ति रूपरेखा FREQUENCY PROFILE FOR YEAR 2015-16**

राष्ट्रीय ग्रिड NATIONAL GRID									
फ़्रिक्वेंसी रूपरेखा (Hz)		49.0-49.9	<49.9	49.9-50.05	>50.05	उच्चतम फ़्रिक्वेंसी	निम्नतम फ़्रिक्वेंसी	औसत फ़्रिक्वेंसी	
% समय	Mar-16	All India Grid	8.69	8.69	70.02	21.29	50.35	49.68	50.00
	Feb-16	All India Grid	5.62	5.62	70.49	23.89	50.39	49.71	50.01
	Jan-16	All India Grid	9.19	9.19	67.96	22.85	50.39	49.70	50.00
	Dec-15	All India Grid	16.38	16.38	66.07	17.55	50.32	49.59	49.98
	Nov-15	All India Grid	11.54	11.42	66.91	21.67	50.21	49.73	49.99
	Oct-15	All India Grid	14.05	14.05	69.60	16.35	50.33	49.62	49.98
	Sep-15	All India Grid	30.12	30.12	60.00	9.87	50.33	49.52	49.94
	Aug-15	N-E-W Grid	15.60	15.60	70.29	14.11	50.27	49.55	49.97
		SR Grid	15.66	15.66	70.37	13.97	50.27	49.55	49.97
	Jul-15	All India Grid	10.64	10.64	70.28	19.08	50.33	49.58	49.99
	Jun-15	All India Grid	9.20	9.20	64.17	26.63	50.55	49.56	49.98
	May-15	N-E-W Grid	15.64	15.64	64.77	19.59	50.55	49.55	49.98
		SR Grid	15.75	15.75	64.67	19.58	50.55	49.19	49.99
	Apr-15	All India Grid	14.89	14.89	60.12	24.99	50.55	49.50	49.99

5.2 मार्च 2016 के लिए आवृत्ति रूपरेखा FREQUENCY PROFILE FOR MARCH 2016

फ्रिक्वेंसी रूपरेखा (Hz)		<49.0	49.0-49.9	>49.9	49.9-50.05	>50.05	उच्चतम फ्रिक्वेंसी	निम्नतम फ्रिक्वेंसी	औसत फ्रिक्वेंसी
% समय	01-Mar-16	0.00	6.16	6.16	72.69	21.16	50.23	49.78	50.00
	02-Mar-16	0.00	9.55	9.55	71.90	18.55	50.22	49.78	49.99
	03-Mar-16	0.00	10.75	10.75	73.43	15.82	50.19	49.74	49.98
	04-Mar-16	0.00	11.31	11.31	72.52	16.17	50.24	49.75	49.98
	05-Mar-16	0.00	2.80	2.80	68.82	28.38	50.25	49.84	50.02
	06-Mar-16	0.00	4.17	4.17	71.11	24.72	50.21	49.76	50.01
	07-Mar-16	0.00	5.94	5.94	72.07	21.99	50.35	49.75	50.00
	08-Mar-16	0.00	10.00	10.00	72.18	17.82	50.25	49.78	49.99
	09-Mar-16	0.00	15.30	15.30	72.16	12.53	50.26	49.73	49.97
	10-Mar-16	0.00	18.28	18.28	71.17	10.56	50.22	49.69	49.96
	11-Mar-16	0.00	26.18	26.18	60.66	13.16	50.19	49.73	49.95
	12-Mar-16	0.00	5.35	5.35	66.06	28.59	50.19	49.75	50.01
	13-Mar-16	0.00	1.54	1.54	66.35	32.11	50.21	49.83	50.02
	14-Mar-16	0.00	7.94	7.94	70.32	21.74	50.21	49.70	50.00
	15-Mar-16	0.00	8.96	8.96	79.93	11.11	50.21	49.76	49.98
	16-Mar-16	0.00	4.72	4.72	75.74	19.54	50.25	49.74	50.00
	17-Mar-16	0.00	11.83	11.83	73.56	14.61	50.19	49.76	49.98
	18-Mar-16	0.00	12.06	12.06	67.43	20.51	50.21	49.68	49.99
	19-Mar-16	0.00	2.62	2.62	69.48	27.91	50.21	49.84	50.01
	20-Mar-16	0.00	3.17	3.17	67.07	29.76	50.26	49.76	50.02
	21-Mar-16	0.00	11.53	11.53	68.69	19.78	50.26	49.69	49.99
	22-Mar-16	0.00	14.25	14.25	69.46	16.30	50.18	49.76	49.98
	23-Mar-16	0.00	6.79	6.79	68.58	24.63	50.31	49.77	50.01
	24-Mar-16	0.00	0.56	0.56	64.63	34.81	50.26	49.86	50.03
	25-Mar-16	0.00	8.58	8.58	68.62	22.80	50.21	49.78	50.00
	26-Mar-16	0.00	11.37	11.37	74.27	14.36	50.19	49.75	49.98
	27-Mar-16	0.00	13.23	13.23	73.30	13.47	50.21	49.75	49.97
	28-Mar-16	0.00	7.05	7.05	74.59	18.36	50.31	49.81	49.99
	29-Mar-16	0.00	5.12	5.12	64.99	29.90	50.26	49.75	50.02
	30-Mar-16	0.00	9.80	9.80	68.34	21.85	50.23	49.80	49.99
	31-Mar-16	0.00	2.57	2.57	60.35	37.08	50.26	49.80	50.03

### ALL INDIA FREQUENCY DURATION CURVE FOR MARCH' 2016



**6.राष्ट्रीय स्तर पर जल विद्युत उत्पादन**  
**HYDRO GENERATION AT NATIONAL LEVEL**

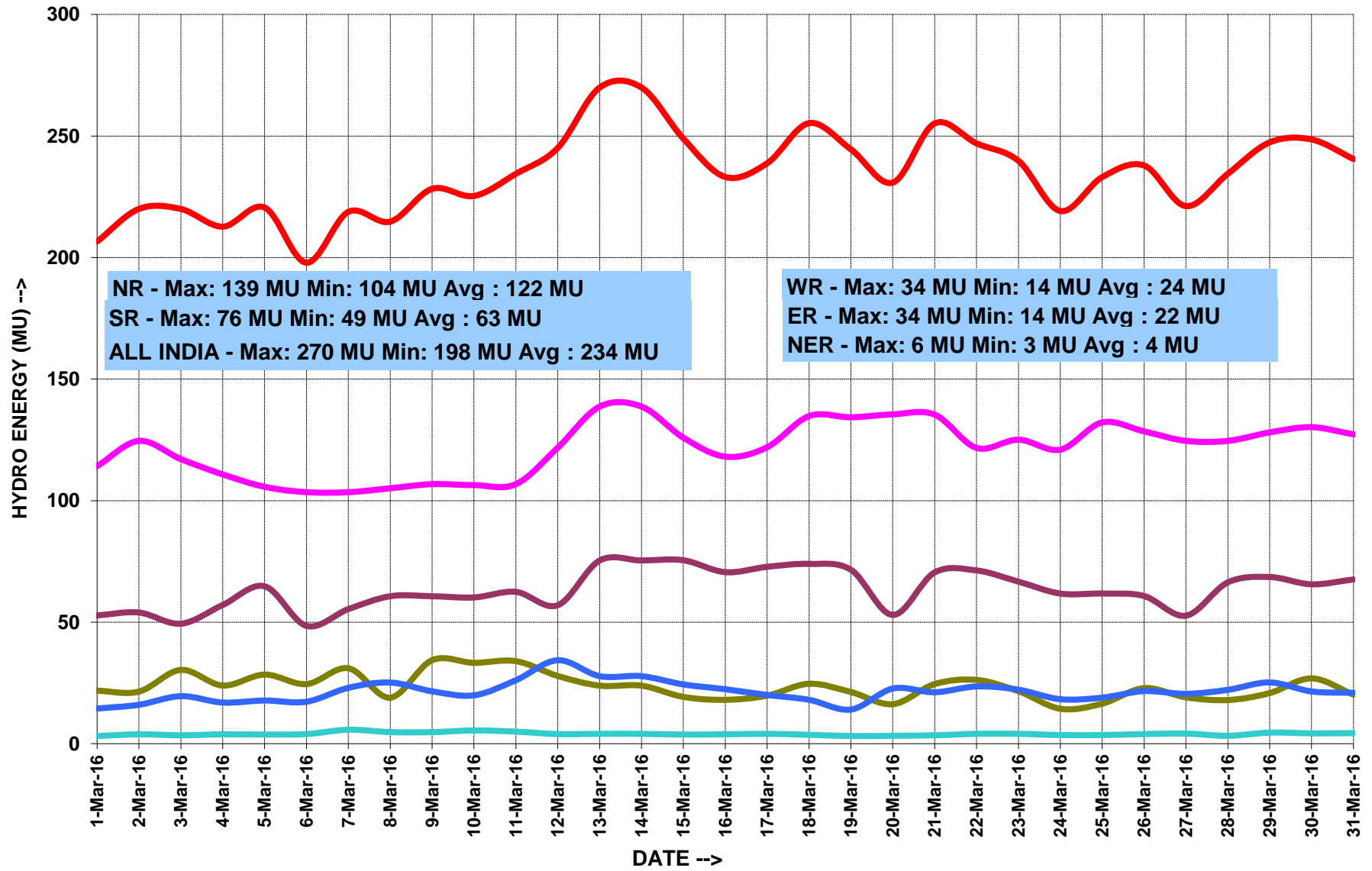
माह:- मार्च 2016      MONTH:- March 2016

सभी आकड़े मिलियन यूनिट में All figures in MU

दिनांक Date	ऊत्तरी क्षे. NR	पश्चिमी क्षे. WR	दक्षिणी क्षे. SR	पूर्वी क्षे. ER	पूर्वोत्तर क्षे. NER	कुल TOTAL
01-Mar-16	114	22	53	14	3	207
02-Mar-16	125	21	54	16	4	220
03-Mar-16	117	30	49	20	4	220
04-Mar-16	111	24	57	17	4	213
05-Mar-16	106	28	65	18	4	221
06-Mar-16	104	25	49	17	4	198
07-Mar-16	104	31	55	23	6	219
08-Mar-16	105	19	61	25	5	215
09-Mar-16	107	34	61	22	5	228
10-Mar-16	106	33	60	20	6	225
11-Mar-16	107	34	63	26	5	234
12-Mar-16	122	28	57	34	4	245
13-Mar-16	139	24	75	28	4	270
14-Mar-16	139	24	75	28	4	270
15-Mar-16	126	19	76	24	4	249
16-Mar-16	118	18	71	22	4	233
17-Mar-16	122	20	73	20	4	239
18-Mar-16	135	25	74	18	4	255
19-Mar-16	134	21	72	14	3	245
20-Mar-16	136	16	53	23	3	231
21-Mar-16	135	25	71	21	4	255
22-Mar-16	122	26	71	24	4	247
23-Mar-16	125	22	67	22	4	240
24-Mar-16	121	14	62	18	4	219
25-Mar-16	132	17	62	19	4	233
26-Mar-16	129	23	61	22	4	238
27-Mar-16	125	19	53	21	4	221
28-Mar-16	125	18	66	22	3	234
29-Mar-16	128	21	69	25	5	247
30-Mar-16	130	27	66	22	4	249
31-Mar-16	127	20	68	21	4	241
कुल TOTAL	3773	729	1965	667	126	7260
उच्चतम MAXIMUM	139	34	76	34	6	270
निम्नतम MINIMUM	104	14	49	14	3	198
औसत AVERAGE	122	24	63	22	4	234
अब तक का उच्चतम All Time Max.	389	167	202	94	29	712
दिनांक Date	18.08.15	18.12.14	09.08.13	09.09.14	27.08.15	27.08.13

# HYDRO ENERGY DURING THE MONTH OF MARCH' 2016

NR WR SR ER NER INDIA



**7. राष्ट्रीय स्तर पर पवन ऊर्जा उत्पादन**  
**WIND GENERATION AT NATIONAL LEVEL**

माह:- मार्च 2016

MONTH:- March 2016

सभी आंकड़े मिलियन यूनिट में All figures in MU

दिनांक Date	उत्तरी क्षे. NR	पश्चिमी क्षे. WR	दक्षिणी क्षे. SR	पूर्वी क्षे. ER	पूर्वोत्तर क्षे. NER	कुल TOTAL
01-Mar-16	8	25	26	-----	-----	58
02-Mar-16	9	23	20	-----	-----	52
03-Mar-16	4	16	27	-----	-----	48
04-Mar-16	5	19	18	-----	-----	42
05-Mar-16	8	24	15	-----	-----	47
06-Mar-16	8	21	13	-----	-----	42
07-Mar-16	10	24	15	-----	-----	49
08-Mar-16	4	21	12	-----	-----	37
09-Mar-16	2	20	8	-----	-----	30
10-Mar-16	10	16	11	-----	-----	37
11-Mar-16	28	24	10	-----	-----	61
12-Mar-16	15	34	12	-----	-----	62
13-Mar-16	2	18	10	-----	-----	30
14-Mar-16	2	18	10	-----	-----	30
15-Mar-16	6	21	17	-----	-----	44
16-Mar-16	10	25	17	-----	-----	51
17-Mar-16	17	32	10	-----	-----	58
18-Mar-16	8	35	10	-----	-----	53
19-Mar-16	16	46	11	-----	-----	73
20-Mar-16	11	54	13	-----	-----	78
21-Mar-16	14	34	14	-----	-----	62
22-Mar-16	8	29	24	-----	-----	61
23-Mar-16	7	24	18	-----	-----	49
24-Mar-16	12	22	11	-----	-----	45
25-Mar-16	23	33	11	-----	-----	68
26-Mar-16	11	29	11	-----	-----	52
27-Mar-16	8	35	10	-----	-----	54
28-Mar-16	4	26	14	-----	-----	44
29-Mar-16	3	26	10	-----	-----	40
30-Mar-16	11	23	9	-----	-----	43
31-Mar-16	9	32	8	-----	-----	48
कुल TOTAL	293	830	425	-----	-----	1548
उच्चतम MAXIMUM	28	54	27	-----	-----	78
निम्नतम MINIMUM	2	16	8	-----	-----	30
औसत AVERAGE	9	27	14	-----	-----	50
अब तक का उच्चतम All Time Max.	34.9	117.5	126.5	...	...	273.1
दिनांक Date	12.06.12	06.07.15	08.07.15	...	...	06.07.15

8. ACTUAL POWER SUPPLY POSITION - Mar 2016

REGION	STATE	Requirement/Availability in MU/DAY			Requirement/Availability in MU				Peak Demand/Peak Met in MW			
		Requirement	Energy met	Surplus(+)/Deficit(-)	Requirement	Energy met	Surplus(+)/Deficit(-)	% Shortage	Requirement	Peak Demand Met	Surplus(+)/Deficit(-)	% Shortage
NR	Chandigarh	3.3	3.3	0.0	101.7	101.7	0.0	0.0	195	195	0	0.0
	Delhi	60.4	60.4	0.0	1873.7	1872.5	-1.2	-0.1	3618	3617	-1	0.0
	Haryana	103.9	103.9	0.0	3219.7	3219.5	-0.2	0.0	6433	6433	0	0.0
	H.P.	23.8	23.7	0.0	736.6	735.4	-1.2	-0.2	1428	1428	0	0.0
	J&K	47.8	40.6	-7.2	1481.5	1257.1	-224.4	-15.1	2439	2069	-370	-15.2
	Punjab	91.8	91.8	0.0	2846.1	2846.1	0.0	0.0	5491	5491	0	0.0
	Rajasthan	189.6	189.5	0.0	5876.3	5875.6	-0.7	0.0	10025	10025	0	0.0
	U.P.	271.7	244.0	-27.7	8423.4	7565.2	-858.2	-10.2	13963	13963	0	0.0
	Uttarakhand	32.0	31.9	-0.1	991.6	990.0	-1.5	-0.2	1817	1817	0	0.0
NFF/Railway	2.3	2.3	0.0	72.5	72.5	0.0	0.0	102	102	0	0.0	
TOTAL	826.6	791.5	-35.1	25623.1	24535.6	-1087.5	-4.2	42396	40282	-2114	-5.0	
WR	Gujarat	293.3	293.2	-0.1	9092.7	9089.5	-3.2	0.0	13810	13781	-29	-0.2
	Madhya Pradesh	174.1	174.1	-0.1	5397.5	5395.9	-1.6	0.0	9309	9309	0	0.0
	Chhattisgarh	80.7	80.1	-0.6	2502.0	2482.6	-19.3	-0.8	3885	3778	-107	-2.8
	Maharashtra	410.9	410.9	-0.1	12738.6	12736.6	-2.0	0.0	19901	19866	-35	-0.2
	Goa	9.3	9.3	0.0	287.7	287.7	0.0	0.0	446	445	-1	-0.2
	D&D	6.5	6.5	0.0	201.8	201.8	0.0	0.0	314	314	0	0.0
	DNH	15.9	15.9	0.0	492.5	491.8	-0.7	-0.1	738	738	0	0.0
	ESIL	11.0	10.9	0.0	339.6	339.1	-0.4	-0.1	774	774	0	0.0
TOTAL	1001.7	1000.8	-0.9	31052.4	31025.2	-27.2	-0.1	46641	46442	-199	-0.4	
SR	Andhra Pradesh	154.9	154.9	0.0	4803.1	4802.2	-0.9	0.0	7391	7391	0	0.0
	Telangana	144.2	144.2	0.0	4469.8	4468.8	-1.0	0.0	6651	6651	0	0.0
	KPTCL	214.4	205.2	-9.2	6646.4	6362.2	-284.3	-4.3	10102	9508	-594	-5.9
	KSEB	73.1	72.8	-0.3	2266.7	2257.2	-9.5	-0.4	3979	3860	-119	-3.0
	TNEB	312.5	312.5	-0.1	9688.1	9686.3	-1.8	0.0	14567	14534	-33	-0.2
	PONDICHERRY	7.0	7.0	0.0	218.2	218.2	0.0	0.0	345	344	-1	-0.2
TOTAL	906.2	896.6	-9.6	28092.3	27794.9	-297.4	-1.1	40987	40899	-88	-0.2	
ER	Bihar	70.0	64.4	-5.5	2169.5	1997.5	-172.0	-7.9	3615	3515	-100	-2.8
	JSEB	23.6	23.6	0.0	730.6	730.3	-0.4	0.0	1191	1191	0	0.0
	DVC	60.6	60.0	-0.6	1878.1	1859.3	-18.7	-1.0	2772	2772	0	0.0
	Odisha	79.5	79.4	0.0	2463.3	2462.6	-0.7	0.0	4250	4250	0	0.0
	West Bengal	149.3	148.6	-0.7	4629.1	4606.3	-22.8	-0.5	7793	7760	-33	-0.4
	Sikkim	1.2	1.2	0.0	36.3	36.3	0.0	0.0	94	94	0	0.0
TOTAL	384.1	377.2	-6.9	11907.0	11692.3	-214.7	-1.8	18705	18282	-423	-2.3	
NER	Arunachal Pradesh	2.2	2.1	0.0	67.0	66.1	-0.9	-1.4	115	113	-2	-1.7
	Assam	22.4	20.5	-1.8	693.6	636.4	-57.2	-8.2	1341	1316	-25	-1.9
	Manipur	2.3	2.2	0.0	70.5	69.0	-1.5	-2.2	155	155	0	0.0
	MeSEB	4.6	4.6	0.0	144.0	144.0	0.0	0.0	322	316	-6	-1.9
	Mizoram	1.4	1.4	0.0	43.9	43.0	-0.9	-2.1	86	84	-2	-2.3
	Nagaland	2.0	1.9	-0.1	61.8	58.5	-3.3	-5.4	114	114	0	0.0
	Tripura	4.1	4.0	0.0	126.0	125.3	-0.7	-0.6	249	248	-1	-0.6
TOTAL	38.9	36.8	-2.1	1207	1142	-64.6	-5.4	2383	2346	-37	-1.5	
ALL INDIA	3157.5	3102.9	-54.6	97881.6	96190.2	-1691.5	-1.7	151111	148251	-2860	-1.9	

**9. ENERGY COMPARISON OF MARCH 2016 vs MARCH 2015**

REGION	STATE	Energy Requirement (MU)					Energy Met (MU)				
		Mar-15	Mar-16	Difference	% Change	Average MU/day for Mar-16	Mar-15	Mar-16	Difference	% Change	Average for MU/day for Mar-16
NR	Chandigarh	103	102	-1	-1	3	103	102	-1	-1	3
	Delhi	1804	1874	70	4	60	1805	1872	68	4	60
	Haryana	2891	3220	328	11	104	2902	3219	317	11	104
	H.P.	717	737	20	3	24	719	735	17	2	24
	J&K	1140	1481	341	30	48	1341	1257	-84	-6	41
	Punjab	2618	2846	228	9	92	2619	2846	228	9	92
	Rajasthan	4942	5876	934	19	190	4942	5876	933	19	190
	U.P.	6643	8423	1781	27	272	7293	7565	272	4	244
	Uttarakhand	981	992	11	1	32	999	990	-9	-1	32
	NFF/Railway	68	73	4	6	2	68	73	4	6	2
	<b>TOTAL</b>	<b>21907</b>	<b>25623</b>	<b>3716</b>	<b>17</b>	<b>827</b>	<b>22791</b>	<b>24536</b>	<b>1745</b>	<b>8</b>	<b>791</b>
WR	Gujarat	8168	9093	925	11	293	8164	9089	925	11	293
	Madhya Pradesh	4155	5398	1243	30	174	4161	5396	1235	30	174
	Chhattisgarh	2504	2502	-2	0	81	2477	2483	6	0	80
	Maharashtra	11667	12739	1071	9	411	11625	12737	1111	10	411
	Goa	272	288	16	6	9	270	288	18	7	9
	D&D	193	202	9	5	7	193	202	9	5	7
	DNH	481	492	11	2	16	480	492	12	2	16
	ESIL	316	340	23	7	11	316	339	23	7	11
<b>TOTAL</b>	<b>27756</b>	<b>31052</b>	<b>3296</b>	<b>12</b>	<b>1002</b>	<b>27686</b>	<b>31025</b>	<b>3339</b>	<b>12</b>	<b>1001</b>	
SR	Andhra Pradesh	4517	4803	286	6	155	4511	4802	291	6	155
	Telangana	4477	4470	-7	0	144	4375	4469	94	2	144
	KPTCL	6086	6646	560	9	214	5927	6362	435	7	205
	KSEB	2036	2267	231	11	73	2021	2257	236	12	73
	TNEB	8969	9688	719	8	313	8668	9686	1018	12	312
	PONDY	199	218	19	10	7	199	218	19	10	7
	<b>TOTAL</b>	<b>26284</b>	<b>28092</b>	<b>1808</b>	<b>7</b>	<b>906</b>	<b>25701</b>	<b>27795</b>	<b>2094</b>	<b>8</b>	<b>897</b>
ER	Bihar	2004	2170	166	8	70	1630	1998	368	23	64
	JSEB	679	731	52	8	24	651	730	79	12	24
	DVC	1726	1878	152	9	61	1726	1859	133	8	60
	Odisha	2270	2463	193	9	79	2270	2463	193	8	79
	West Bengal	4450	4629	179	4	149	4423	4606	183	4	149
	Sikkim	34	36	2	7	1	34	36	2	7	1
	<b>TOTAL</b>	<b>11163</b>	<b>11907</b>	<b>744</b>	<b>7</b>	<b>384</b>	<b>10734</b>	<b>11692</b>	<b>958</b>	<b>9</b>	<b>377</b>
NER	Arunachal Pradesh	53	67	14	26	2	53	66	13	25	2
	Assam	660	694	34	5	22	602	636	34	6	21
	Manipur	67	71	4	5	2	67	69	2	3	2
	MeSEB	175	144	-31	-18	5	169	144	-25	-15	5
	Mizoram	41	44	3	7	1	40	43	3	7	1
	Nagaland	66	62	-4	-6	2	54	58	4	8	2
	Tripura	120	126	6	5	4	95	125	30	32	4
	<b>TOTAL</b>	<b>1182</b>	<b>1207</b>	<b>25</b>	<b>2</b>	<b>39</b>	<b>1080</b>	<b>1142</b>	<b>62</b>	<b>6</b>	<b>37</b>
<b>ALL INDIA</b>	<b>88292</b>	<b>97882</b>	<b>9590</b>	<b>11</b>	<b>3157</b>	<b>87992</b>	<b>96190</b>	<b>8198</b>	<b>9</b>	<b>3103</b>	



**10. DEMAND COMPARISON OF MARCH 2016 vs MARCH 2015**

REGION	STATE	Peak Requirement (MW)				Peak Met (MW)			
		Mar-15	Mar-16	Difference	% Change	Mar-15	Mar-16	Difference	% Change
NR	Chandigarh	199	195	-4	-2.0	199	195	-4	-2.0
	Delhi	3589	3618	29	0.8	3589	3617	28	0.8
	Haryana	6010	6433	423	7.0	6010	6433	423	7.0
	H.P.	1365	1428	63	4.6	1365	1428	63	4.6
	J&K	2286	2439	153	6.7	1988	2069	81	4.1
	Punjab	5881	5491	-390	-6.6	5881	5491	-390	-6.6
	Rajasthan	8199	10025	1826	22.3	8199	10025	1826	22.3
	U.P.	12400	13963	1563	12.6	12040	13963	1923	16.0
	Uttarakhand	1751	1817	66	3.8	1751	1817	66	3.8
	NFF/Railway	105	102	-3	-2.9	105	102	-3	-2.9
WR	Gujarat	13419	13810	391	3	13414	13781	367	2.7
	Madhya Pradesh	7180	9309	2129	30	7185	9309	2124	29.6
	Chhattisgarh	3950	3885	-65	-2	3770	3778	8	0.2
	Maharashtra	20556	19901	-655	-3	20424	19866	-558	-2.7
	Goa	465	446	-19	-4	465	445	-20	-4.3
	D&D	306	314	8	2.6	306	314	8	2.6
	DNH	706	738	32	4.5	706	738	32	4.5
	ESIL	605	774	169	27.9	605	774	169	27.9
SR	Andhra Pradesh	6794	7391	597	8.8	6784	7391	607	8.9
	Telangana	6943	6651	-292	-4.2	6755	6651	-104	-1.5
	KPTCL	9893	10102	210	2.1	9549	9508	-41	-0.4
	KSEB	3716	3979	263	7.1	3602	3860	258	7.2
	TNEB	13695	14567	872	6.4	13051	14534	1483	11.4
	PONDY	316	345	29	9.2	314	344	30	9.6
ER	Bihar	3000	3615	615	20.5	2794	3515	721	25.8
	JSEB	1060	1191	131	12.4	1060	1191	131	12.4
	DVC	2613	2772	159	6.1	2613	2772	159	6.1
	Odisha	4071	4250	179	4.4	4071	4250	179	4.4
	West Bengal	6658	7793	1135	17.0	6658	7760	1102	16.6
	Sikkim	91	94	3	3.3	91	94	3	3.3
NER	Arunachal Pradesh	120	115	-5	-4.2	107	113	6	5.6
	Assam	1317	1341	24	1.8	1215	1316	101	8.3
	Manipur	148	155	7	4.7	146	155	9	6.2
	MeSEB	359	322	-37	-10.3	343	316	-27	-7.9
	Mizoram	84	86	2	2.4	81	84	3	3.7
	Nagaland	130	114	-16	-12.3	128	114	-14	-10.9
	Tripura	261	249	-12	-4.4	233	248	15	6.4

**11. SCHEDULE AND DRAWAL OF CONSTITUENTS - Mar 2016**

REGION	STATE	SCHEDULE (MU)	ACTUAL DRAWAL (MU)	Over drawal(+)/ Under Drawal(-) (MU)	% OD/UD	SCHEDULE (MU/DAY)	ACTUAL DRAWAL (MU/DAY)	Over drawal(+)/ Under Drawal(-) (MU/DAY)
NR	Chandigarh	103.13	111.45	8.32	8.07	3.33	3.60	0.27
	Delhi	1578.20	1623.16	44.95	2.85	50.91	52.36	1.45
	Haryana	2318.90	2289.82	-29.07	-1.25	74.80	73.87	-0.94
	H.P.	525.56	533.32	7.77	1.48	16.95	17.20	0.25
	J&K	978.00	933.28	-44.72	-4.57	31.55	30.11	-1.44
	Punjab	1750.43	1766.69	16.26	0.93	56.47	56.99	0.52
	Rajasthan	1788.28	1828.56	40.28	2.25	57.69	58.99	1.30
	U.P.	3334.25	3357.77	23.52	0.71	107.56	108.32	0.76
	Uttarakhand	682.48	719.76	37.29	5.46	22.02	23.22	1.20
	NFF/Railway	54.81	72.69	17.88	32.61	1.77	2.34	0.58
WR	Gujarat	2249.05	2301.32	52.27	2.32	72.55	74.24	1.69
	Madhya Pradesh	3322.83	3257.91	-64.93	-1.95	107.19	105.09	-2.09
	Maharashtra	3844.68	3834.99	-9.69	-0.25	124.02	123.71	-0.31
	Chhattisgarh	864.17	830.88	-33.29	-3.85	27.88	26.80	-1.07
	Goa	250.98	269.21	18.23	7.26	8.10	8.68	0.59
	D&D	194.14	203.39	9.25	4.76	6.26	6.56	0.30
	D&NH	505.53	491.83	-13.69	-2.71	16.31	15.87	-0.44
	ESIL	329.56	339.15	9.59	2.91	10.63	10.94	0.31
SR	Andhra Pradesh	663.70	698.88	35.18	5.30	21.41	22.54	1.13
	Telangana	2637.31	2651.27	13.96	0.53	85.07	85.52	0.45
	KPTCL	1923.06	2019.81	96.75	5.03	62.03	65.16	3.12
	KSEB	1557.20	1628.86	71.66	4.60	50.23	52.54	2.31
	TNEB	4590.78	4665.62	74.84	1.63	148.09	150.50	2.41
	PONDICHERRY	222.36	218.18	-4.18	-1.88	7.17	7.04	-0.13
ER	Bihar	1849.89	1880.69	30.79	1.66	59.67	60.67	0.99
	JSEB	342.13	371.34	29.21	8.54	11.04	11.98	0.94
	DVC	-819.65	-817.21	2.44	-0.30	-26.44	-26.36	0.08
	GRIDCO	777.24	820.61	43.37	5.58	25.07	26.47	1.40
	WBSEB	1182.82	1220.90	38.08	3.22	38.16	39.38	1.23
	Sikkim	39.97	36.31	-3.66	-9.15	1.29	1.17	-0.12
NER	Arunachal Pradesh	47.94	66.07	18.13	37.82	1.55	2.13	0.58
	Assam	455.51	502.68	47.16	10.35	14.69	16.22	1.52
	Manipur	64.66	68.97	4.31	6.67	2.09	2.22	0.14
	MeSEB	108.66	106.77	-1.89	-1.74	3.51	3.44	-0.06
	Mizoram	30.83	40.75	9.92	32.19	0.99	1.31	0.32
	Nagaland	46.90	55.97	9.06	19.32	1.51	1.81	0.29
	Tripura	57.58	68.60	11.02	19.14	1.86	2.21	0.36



<b>Export of WR to ER (WR-ER)</b>													
WR - ER 765 kV Ranchi - Dharamjaygarh	1.94	17.79	10.97	12.35	79.83	96.71	54.65	0.32	0.00	3.48	0.96	21.16	<b>300.15</b>
WR - ER 400 kV Sipat - Ranchi D/C	1.94	21.14	60.56	26.05	126.20	176.46	178.43	116.19	116.73	146.00	113.93	170.51	<b>1254.13</b>
WR - ER 400 kV Raigarh - Sterilite D/C	0.12	0.36	4.48	6.18	71.00	88.77	93.74	40.86	30.61	42.49	28.66	49.51	<b>456.77</b>
WR - ER 765 kV Dharamjaygarh - Jharsuguda D/C	7.73	25.18	31.06	32.79	37.11	18.00	0.47	0.00	0.00	0.00	0.00	0.00	<b>152.34</b>
WR - ER 400 kV Raigarh - Jharsuguda D/C	0.00	0.00	2.78	6.35	83.20	180.04	243.76	155.47	134.43	145.43	96.92	131.75	<b>1180.13</b>
WR - ER 220 kV Korba - Budhipadar D/C	0.25	5.70	0.99	4.62	3.23	1.96	1.62	1.10	1.21	51.77	62.17	65.35	<b>199.99</b>
WR - ER 220 kV Raigarh - Budhipadar	0.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.22	0.74	<b>3.78</b>
<b>Total WR - ER</b>	<b>12.80</b>	<b>70.17</b>	<b>110.84</b>	<b>88.34</b>	<b>400.57</b>	<b>561.94</b>	<b>572.67</b>	<b>313.94</b>	<b>282.97</b>	<b>389.17</b>	<b>304.87</b>	<b>439.01</b>	<b>3547.28</b>
<b>Import of WR from ER (ER - WR)</b>													
ER - WR 765 kV Ranchi - Dharamjaygarh	2.18	17.23	6.16	17.76	2.08	1.81	18.53	27.51	66.41	42.60	40.85	25.11	<b>268.24</b>
ER - WR 400 kV Sipat - Ranchi D/C	2.66	11.84	1.68	5.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>21.36</b>
ER - WR 400 kV Raigarh - Sterilite D/C	232.49	308.83	244.90	150.11	57.24	131.52	96.60	105.40	63.82	95.21	127.35	108.36	<b>1721.83</b>
ER - WR 400 kV Dharamjaygarh - Jharsuguda D/C	63.81	97.48	79.08	41.61	37.07	94.38	255.57	285.74	342.24	382.87	372.52	334.36	<b>2386.74</b>
ER - WR 400 kV Raigarh - Jharsuguda D/C	28.29	43.07	19.12	56.28	0.26	1.40	0.00	0.00	0.00	0.00	4.03	0.01	<b>152.47</b>
ER - WR 220 kV Korba - Budhipadar D/C	24.54	20.37	61.78	43.52	40.39	20.63	13.77	14.91	16.47	2.29	0.00	0.00	<b>258.67</b>
ER - WR 220 kV Raigarh - Budhipadar	73.09	54.74	0.00	18.17	83.28	69.91	77.28	71.61	68.53	18.97	14.34	35.00	<b>584.90</b>
<b>Total ER - WR</b>	<b>427.06</b>	<b>553.56</b>	<b>412.72</b>	<b>332.63</b>	<b>220.33</b>	<b>319.65</b>	<b>461.75</b>	<b>505.17</b>	<b>557.46</b>	<b>541.95</b>	<b>559.10</b>	<b>502.84</b>	<b>5394.20</b>
<b>Export of ER to NER (ER - NER)</b>													
ER - NER 400 kV Binaguri - Bongaigaon 2xD/C	206.56	212.27	54.30	0.33	5.24	9.12	96.72	49.33	13.73	385.78	246.01	259.66	<b>1539.04</b>
ER - NER 220 kV Birpara - Salakati D/C	29.33	52.31	39.44	35.76	39.66	41.51	49.72	7.63	1.55	37.64	14.20	19.97	<b>368.73</b>
<b>Total ER - NER</b>	<b>235.90</b>	<b>264.59</b>	<b>93.74</b>	<b>36.09</b>	<b>44.90</b>	<b>50.63</b>	<b>146.44</b>	<b>56.96</b>	<b>15.28</b>	<b>423.41</b>	<b>260.21</b>	<b>279.63</b>	<b>1907.77</b>
<b>Import of ER from NER (NER - ER)</b>													
NER - ER 400 kV Binaguri - Bongaigaon 2xD/C	0.00	0.00	46.09	116.25	188.28	171.37	34.22	132.31	67.57	7.17	0.00	20.80	<b>784.06</b>
NER - ER 220 kV Birpara - Salakati D/C	0.00	0.00	0.10	2.12	0.92	0.00	0.18	10.09	12.09	3.40	0.20	4.54	<b>33.63</b>
<b>Total NER - ER</b>	<b>0.00</b>	<b>0.00</b>	<b>46.19</b>	<b>118.37</b>	<b>189.20</b>	<b>171.37</b>	<b>34.40</b>	<b>142.39</b>	<b>79.66</b>	<b>10.57</b>	<b>0.20</b>	<b>25.34</b>	<b>817.69</b>
<b>Export of ER to SR (ER - SR)</b>													
ER - SR HVDC Gazuwaka	443.51	469.85	441.50	526.03	500.04	486.72	519.36	452.31	469.69	466.76	489.94	410.03	<b>5675.75</b>
ER - SR HVDC Talchar - Kolar	1360.36	1428.22	1193.46	1441.16	1443.65	1359.19	1482.82	1336.36	1344.02	1126.22	1349.76	1480.78	<b>16346.00</b>
<b>Total ER - SR</b>	<b>1803.87</b>	<b>1898.08</b>	<b>1634.95</b>	<b>1967.19</b>	<b>1943.69</b>	<b>1845.92</b>	<b>2002.19</b>	<b>1788.67</b>	<b>1813.71</b>	<b>1592.97</b>	<b>1839.71</b>	<b>1890.81</b>	<b>22021.75</b>
<b>Import of ER from SR (SR - ER)</b>													
SR - ER HVDC Gazuwaka	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
SR - ER HVDC Talchar - Kolar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
<b>Total SR - ER</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>Export of WR to SR (WR - SR)</b>													
WR - SR HVDC Bhadravati	708.30	709.31	695.57	715.62	710.55	690.39	727.48	649.77	617.13	578.27	644.24	733.60	<b>8180.23</b>
WR - SR 765 kV Sholapur - Raichur	263.68	315.71	304.74	343.65	308.18	249.03	740.02	757.35	932.77	979.53	1059.90	1329.25	<b>7583.79</b>
WR - SR 400KV Kolhapur-Kudgi D/C								25.15	95.61	40.37	1.07	7.73	<b>169.93</b>
<b>Total WR - SR</b>	<b>971.98</b>	<b>1025.03</b>	<b>1000.31</b>	<b>1059.27</b>	<b>1018.72</b>	<b>939.42</b>	<b>1467.49</b>	<b>1432.26</b>	<b>1645.52</b>	<b>1598.17</b>	<b>1705.21</b>	<b>2070.58</b>	<b>15933.95</b>
<b>Import of WR from SR (SR - WR)</b>													
SR - WR HVDC Bhadravati	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
SR - WR 765 kV Raichur - Sholapur	17.71	10.54	11.13	7.96	11.62	19.97	6.01	3.68	0.00	0.00	0.00	0.00	<b>88.62</b>
SR - WR 400KV Kolhapur-Kudgi D/C								0.00	3.09	7.12	27.11	29.41	<b>66.74</b>
<b>Total SR - WR</b>	<b>17.71</b>	<b>10.54</b>	<b>11.13</b>	<b>7.96</b>	<b>11.62</b>	<b>19.97</b>	<b>6.01</b>	<b>3.68</b>	<b>3.09</b>	<b>7.12</b>	<b>27.11</b>	<b>29.41</b>	<b>155.36</b>
<b>TOTAL ALL INDIA</b>	<b>7857</b>	<b>8648</b>	<b>8065</b>	<b>8375</b>	<b>9167</b>	<b>9951</b>	<b>10346</b>	<b>9957</b>	<b>10877</b>	<b>11122</b>	<b>10811</b>	<b>11856</b>	<b>117033</b>



Date	12.2 Export of NR to WR, ER & NER during Mar 2016																								
	Export of NR to WR (NR- WR)										Export of NR to ER (NR- ER)													Export of NR to NER (NR- NER)	
	WR - NR 765 kV Gwalior - Agra D/C	WR-NR 765 kV Gwalior-Phagi D/C	WR - NR HVDC V'chal	WR - NR 400 kV Zerde-Kankroll	WR - NR 400 kV Zerde-Bhinmal	WR - NR 220 kV Badod - Kota / Modak	WR - NR 220 kV Auraiya - Malanpur / Mehaon	WR-NR 400 kV Rihand-Vindhyachal	WR - NR HVDC Mundra - M'garh	Total NR - WR	ER - NR 765 kV Sasaram - Fatehpur	ER - NR 765 kV Gaya - Fatehpur	ER - NR 765 kV Gaya - Varanasi	ER - NR 765 kV Gaya Balla	ER-NR 400 kV Patna - Balla 2x0/C	ER - NR 400 kV Nizafarapur - G'pur D/C	ER - NR 400 kV B'harh - G'pur D/C	ER - NR 400 kV B'harh - Varanasi D/C	ER - NR HVDC Sasaram (Byepass)	ER - NR 220 kV Pusaui - Sahupuri	ER - NR 132 kV Sahupuri - K'nasa	ER - NR 132 kV Rihand - Son Nagar	Total NR - ER	NER-NR HVDC Biswanath Charlii - Agra	Total NR-NER
1-Mar-16	0.00	0.00	7.97	3.41	1.21	0.29	2.31	0.00	0.00	15.19	1.79	0.00	0.00	0.00	8.62	2.33	0.00	0.00	0.00	0.00	0.00	0.62	13.35	0.00	0.00
2-Mar-16	0.00	0.00	4.45	3.01	1.10	0.53	2.14	0.00	0.00	11.22	1.39	0.00	0.00	0.00	9.41	2.53	0.00	0.00	0.00	0.00	0.63	13.95	0.00	0.00	
3-Mar-16	0.00	0.00	3.42	2.80	0.69	0.37	2.14	0.00	0.00	9.41	0.93	0.00	0.00	0.00	8.68	2.49	0.00	0.00	0.00	0.00	0.62	12.71	0.00	0.00	
4-Mar-16	0.00	0.00	3.03	2.82	0.82	0.11	1.97	0.00	0.00	8.74	1.77	0.00	0.00	0.00	10.11	3.58	0.00	0.00	0.00	0.00	0.61	16.08	0.00	0.00	
5-Mar-16	0.00	0.00	1.36	0.00	3.92	0.67	1.71	0.00	0.00	7.66	3.08	0.00	0.00	0.00	11.06	4.88	0.00	0.00	0.00	0.00	0.59	19.61	0.00	0.00	
6-Mar-16	0.00	0.00	5.50	3.15	1.11	0.27	2.39	0.00	0.00	12.41	0.89	0.00	0.00	0.00	7.09	3.88	0.00	0.00	0.00	0.00	0.60	12.45	0.00	0.00	
7-Mar-16	0.00	0.00	2.90	3.86	1.95	0.00	1.68	0.00	0.00	10.39	0.00	0.00	0.00	0.00	6.10	2.76	0.00	0.00	0.00	0.00	0.50	9.37	0.00	0.00	
8-Mar-16	0.00	0.00	4.80	3.67	1.50	0.05	1.48	0.00	0.00	11.50	0.07	0.00	0.00	0.00	8.53	2.78	0.00	0.00	0.00	0.00	0.28	11.65	0.00	0.00	
9-Mar-16	0.00	0.00	3.42	3.00	1.01	0.00	1.23	0.00	0.00	8.66	0.00	0.00	0.00	0.00	7.40	3.26	0.00	0.00	0.00	0.00	0.35	11.00	0.00	0.00	
10-Mar-16	0.00	0.00	0.00	4.20	2.58	1.03	0.78	0.00	0.00	8.60	0.00	0.00	0.48	0.00	7.33	4.14	0.00	0.00	0.00	0.00	0.52	12.46	0.00	0.00	
11-Mar-16	0.00	0.00	0.17	6.45	5.25	1.75	0.53	0.00	0.00	14.14	1.09	0.00	1.22	0.00	8.16	2.89	0.00	0.00	0.00	0.00	0.61	13.97	0.00	0.00	
12-Mar-16	0.00	0.00	3.98	12.04	3.76	1.37	0.27	0.00	0.00	21.42	4.49	0.00	2.69	0.00	10.63	5.79	0.00	0.00	0.00	0.00	0.53	24.13	0.00	0.00	
13-Mar-16	0.00	0.00	4.22	0.00	3.32	0.60	0.71	0.00	0.00	8.85	2.70	0.00	1.83	0.00	9.89	5.52	0.00	0.00	0.00	0.00	0.24	20.18	0.23	0.23	
14-Mar-16	0.00	0.00	2.25	4.95	2.90	0.31	0.52	0.00	0.00	10.94	0.19	0.00	1.43	0.00	3.56	3.18	0.00	0.00	0.00	0.00	0.41	8.77	7.72	7.72	
15-Mar-16	0.00	0.00	0.15	3.61	2.04	0.00	0.08	0.00	0.00	5.87	0.78	0.00	3.18	0.00	3.50	2.09	0.00	0.00	0.00	0.00	-0.53	9.02	7.54	7.54	
16-Mar-16	0.00	0.00	0.20	3.67	2.18	0.00	0.08	0.00	0.00	6.13	0.33	0.00	3.25	0.00	1.89	0.81	0.00	0.00	0.00	0.00	0.50	6.78	9.90	9.90	
17-Mar-16	0.00	0.00	0.25	4.32	3.22	0.07	0.00	0.00	0.00	7.85	0.45	0.00	0.00	0.00	3.73	1.44	0.00	0.00	0.00	0.00	0.56	6.18	12.04	12.04	
18-Mar-16	0.00	0.00	1.96	2.83	1.40	0.00	0.16	0.00	0.00	6.35	1.10	0.00	0.09	0.00	5.41	2.32	0.00	0.00	0.00	0.00	0.56	9.47	8.40	8.40	
19-Mar-16	0.00	0.00	3.77	3.53	2.49	0.00	0.26	0.00	0.00	10.05	4.96	0.00	0.00	0.00	11.69	5.18	0.00	0.00	0.00	0.00	0.52	22.34	0.00	0.00	
20-Mar-16	0.00	0.00	4.91	3.71	2.14	0.00	0.26	0.00	0.00	11.01	6.12	0.00	0.00	0.00	12.84	5.72	0.00	0.00	0.00	0.00	0.60	25.28	0.00	0.00	
21-Mar-16	0.00	0.00	2.68	3.19	2.06	0.00	0.11	0.00	0.00	8.05	4.32	0.00	0.15	0.00	12.00	5.67	0.00	0.00	0.00	0.00	0.62	22.76	0.00	0.00	
22-Mar-16	0.00	0.00	5.16	3.43	2.19	0.37	0.01	0.00	0.00	11.16	3.78	0.00	0.31	0.00	10.79	3.99	0.00	0.00	0.00	0.00	0.60	19.47	0.00	0.00	
23-Mar-16	0.00	0.00	1.36	2.82	1.66	0.27	0.01	0.00	0.00	6.13	2.14	0.00	0.00	0.00	5.14	0.99	0.00	0.00	0.00	0.00	0.63	8.90	0.00	0.00	
24-Mar-16	0.00	0.00	3.63	3.84	2.63	0.52	0.08	0.00	0.00	10.70	3.32	0.00	0.40	0.00	6.98	2.52	0.00	0.00	0.00	0.00	0.62	13.83	0.00	0.00	
25-Mar-16	0.00	0.00	1.61	4.36	3.55	0.35	0.17	0.00	0.00	10.04	3.31	0.00	0.97	0.00	8.23	2.82	0.00	0.00	0.00	0.00	0.60	15.94	0.00	0.00	
26-Mar-16	0.00	0.00	0.00	3.24	3.55	0.00	0.00	0.00	0.00	6.79	4.42	0.00	0.58	0.00	8.45	2.01	0.00	0.00	0.00	0.00	0.52	15.98	0.00	0.00	
27-Mar-16	0.00	0.00	0.00	2.55	1.37	0.00	0.22	0.00	0.00	4.14	4.65	0.00	0.16	0.00	7.60	1.01	0.00	0.00	0.00	0.00	0.54	13.96	0.00	0.00	
28-Mar-16	0.00	0.00	0.55	2.72	1.29	0.00	0.00	0.00	0.00	4.56	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	1.00	0.00	0.00	
29-Mar-16	0.00	0.00	0.23	3.61	1.29	0.56	0.00	0.00	0.00	5.69	0.83	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.59	1.44	0.00	0.00	
30-Mar-16	0.00	0.00	0.00	4.31	3.19	1.04	0.00	0.00	0.00	8.53	2.83	0.00	0.00	0.00	1.62	0.00	0.00	3.72	0.00	0.00	0.53	8.70	0.00	0.00	
31-Mar-16	0.00	0.00	0.00	4.36	2.88	0.89	0.00	0.00	0.00	8.14	0.98	0.00	0.00	0.00	0.00	0.00	1.09	0.00	0.00	0.00	-0.57	1.50	10.14	10.14	
Total	0.00	0.00	73.89	113.45	70.24	11.39	21.31	0.00	0.00	290.28	63.18	0.00	16.74	0.00	216.43	86.55	0.00	4.83	0.00	0.00	14.49	402.23	55.97	55.97	



Date	12.4 Import and Export of SR with ER & WR during Mar 2016													
	Export of ER to SR (ER - SR)			Import of ER from SR (SR - ER)			Export of WR to SR (WR-SR)				Import of WR from SR (SR - WR)			
	ER - SR HVDC Gazuwaka	ER - SR HVDC Talchar -Kolar	Total ER - SR	SR - ER HVDC Gazuwaka	SR - ER HVDC Talchar -	Total SR - ER	WR - SR HVDC Bhadrawati	WR - SR 765 kV Sholapur - Raichur	WR-SR 400KV Kolhapur-Kudgi D/C	Total WR - SR	SR - WR HVDC Bhadrawati	SR - WR 765 kV Raichur - Sholapur	SR-WR 400KV Kolhapur-Kudgi D/C	Total SR - WR
1-Mar-16	17.1	45.9	63.03	0.00	0.00	0.00	23.84	30.28	0.00	54.12	0.00	0.00	0.40	0.40
2-Mar-16	18.7	49.2	67.84	0.00	0.00	0.00	23.88	35.60	0.00	59.48	0.00	0.00	0.95	0.95
3-Mar-16	18.6	46.8	65.46	0.00	0.00	0.00	23.58	38.54	0.05	62.17	0.00	0.00	0.00	0.00
4-Mar-16	17.1	49.1	66.24	0.00	0.00	0.00	23.44	41.69	0.55	65.67	0.00	0.00	0.00	0.00
5-Mar-16	16.1	49.4	65.57	0.00	0.00	0.00	23.87	39.60	0.00	63.47	0.00	0.00	1.03	1.03
6-Mar-16	16.8	46.7	63.44	0.00	0.00	0.00	23.70	37.51	0.00	61.21	0.00	0.00	0.62	0.62
7-Mar-16	17.3	46.0	63.35	0.00	0.00	0.00	21.97	39.40	1.01	62.38	0.00	0.00	0.00	0.00
8-Mar-16	17.3	40.5	57.83	0.00	0.00	0.00	23.87	39.39	1.11	64.37	0.00	0.00	0.00	0.00
9-Mar-16	16.3	47.1	63.42	0.00	0.00	0.00	21.85	36.58	0.30	58.73	0.00	0.00	0.00	0.00
10-Mar-16	13.8	50.0	63.73	0.00	0.00	0.00	23.87	42.30	0.56	66.73	0.00	0.00	0.00	0.00
11-Mar-16	14.2	48.4	62.67	0.00	0.00	0.00	23.88	42.08	0.05	66.02	0.00	0.00	0.00	0.00
12-Mar-16	16.6	49.1	65.74	0.00	0.00	0.00	23.86	39.61	0.00	63.47	0.00	0.00	1.21	1.21
13-Mar-16	15.5	47.6	63.17	0.00	0.00	0.00	22.62	37.53	0.00	60.15	0.00	0.00	0.38	0.38
14-Mar-16	16.2	51.1	67.25	0.00	0.00	0.00	23.91	46.59	0.00	70.50	0.00	0.00	2.06	2.06
15-Mar-16	17.5	51.0	68.46	0.00	0.00	0.00	23.86	44.65	0.00	68.51	0.00	0.00	4.16	4.16
16-Mar-16	10.6	51.4	62.02	0.00	0.00	0.00	23.92	49.86	0.00	73.78	0.00	0.00	2.89	2.89
17-Mar-16	9.4	49.6	59.00	0.00	0.00	0.00	23.86	46.00	0.00	69.87	0.00	0.00	3.64	3.64
18-Mar-16	9.4	50.8	60.20	0.00	0.00	0.00	23.91	45.95	0.00	69.85	0.00	0.00	4.56	4.56
19-Mar-16	8.6	47.6	56.20	0.00	0.00	0.00	23.90	47.07	0.00	70.98	0.00	0.00	2.13	2.13
20-Mar-16	8.6	47.5	56.01	0.00	0.00	0.00	23.69	47.85	1.69	73.23	0.00	0.00	0.00	0.00
21-Mar-16	8.6	48.5	57.07	0.00	0.00	0.00	23.87	48.55	0.00	72.42	0.00	0.00	0.36	0.36
22-Mar-16	8.6	45.7	54.25	0.00	0.00	0.00	23.85	50.48	0.00	74.33	0.00	0.00	1.55	1.55
23-Mar-16	8.6	47.8	56.38	0.00	0.00	0.00	23.92	47.18	0.00	71.10	0.00	0.00	1.38	1.38
24-Mar-16	10.0	45.9	55.95	0.00	0.00	0.00	23.87	50.91	0.81	75.59	0.00	0.00	0.00	0.00
25-Mar-16	10.5	47.1	57.66	0.00	0.00	0.00	23.86	45.59	0.16	69.62	0.00	0.00	0.00	0.00
26-Mar-16	10.2	44.7	54.90	0.00	0.00	0.00	23.84	40.49	0.00	64.33	0.00	0.00	0.81	0.81
27-Mar-16	10.5	47.3	57.84	0.00	0.00	0.00	23.68	43.04	0.00	66.73	0.00	0.00	0.06	0.06
28-Mar-16	12.5	47.6	60.06	0.00	0.00	0.00	23.81	39.14	0.00	62.95	0.00	0.00	1.02	1.02
29-Mar-16	13.3	47.5	60.78	0.00	0.00	0.00	23.90	45.75	0.70	70.35	0.00	0.00	0.00	0.00
30-Mar-16	11.4	48.8	60.24	0.00	0.00	0.00	23.84	47.33	0.73	71.91	0.00	0.00	0.00	0.00
31-Mar-16	10.2	44.8	55.06	0.00	0.00	0.00	23.88	42.70	0.00	66.57	0.00	0.00	0.21	0.21
<b>Total</b>	<b>410.03</b>	<b>1480.78</b>	<b>1890.81</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>733.60</b>	<b>1329.25</b>	<b>7.73</b>	<b>2062.85</b>	<b>0.00</b>	<b>0.00</b>	<b>29.41</b>	<b>29.41</b>



13. भूटान , नेपाल एवं बांग्लादेश के साथ अंतरराष्ट्रीय विद्युत विनिमय  
INTERNATIONAL EXCHANGE WITH BHUTAN, NEPAL AND BANGLADESH

अप्रैल 2015 से मार्च 2016 April 2015 to March 2016

अंतरराष्ट्रीय विद्युत विनिमय [भारत से दूसरे देश को आयात (+) / निर्यात (-)]  
Transnational Exchange (Import=(+ve) /Export =(-ve))

माह MONTH	भूटान BHUTAN	नेपाल NEPAL	बांग्लादेश BANGLADESH
	Energy Exchange (In MU)	Energy Exchange (In MU)	Energy Exchange (In MU)
अप्रैल 2015 APR'15	243.70	-120.56	-303.01
मई 2015 MAY'15	449.85	-98.12	-334.82
जून 2015 JUN'15	676.37	-109.91	-317.91
जुलाई 2015 JUL'15	1010.50	-120.50	-312.40
अगस्त 2015 AUG'15	1034.10	-115.00	-324.60
सितम्बर 2015 SEP'15	993.00	-95.90	-317.40
अक्टूबर 2015 OCT'15	600.03	-68.22	-333.73
नवम्बर 2015 NOV'15	263.43	-93.42	-274.19
दिसम्बर 2015 DEC'15	140.20	-148.70	-240.90
जनवरी 2016 JAN'16	72.13	-147.32	-275.90
फरवरी 2016 FEB'16	27.21	-155.43	-277.16
मार्च 2016 MAR'16	46.56	-196.51	-342.38
<b>कुल Total</b>	<b>5557.07</b>	<b>-1469.59</b>	<b>-3654.40</b>

**14. एसटीओए (द्विपक्षीय एवं सामूहिक) एवं डी एस एम बिलिंग का ब्योरा – माह मार्च 2016**  
**STOA (BILATERAL AND COLLECTIVE) & DSM BILLING DETAILS- MAR 2016**

**द्विपक्षीय एसटीओए BILATERAL SHORT TERM OPEN ACCESS**

मार्च 2016 Mar 2016			April'15 - Mar'16	
क्षे.आ.प्रे.के. का नाम Name of RLDC	लेन – देनों की संख्या No. of Transactions	अनुमोदित ऊर्जा (मि.यु.) Energy Units Approved(MU)	लेन – देनों की संख्या No. of Transactions	अनुमोदित ऊर्जा (मि.यु.) Energy Approved (MU)
ऊ.क्षे. NR	320	1243	4388	21836
प.क्षे. WR	299	1238	3276	11835
द.क्षे. SR	199	1032	3494	18113
पू.क्षे. ER	177	1141	2057	10592
पूर्वोत्तर क्षे. NER	44	201	361	1619
कुल TOTAL	1039	4854	13576	63995

**एसटीओए SHORT TERM OPEN ACCESS**

माह MONTH	सामूहिक एसटीओए Collective STOA		द्विपक्षीय एसटीओए Bilateral STOA	
	क्रैताओं / विक्रेताओं की सं. NO. of Buyers/Sellers	अनुमोदित ऊर्जा (मि.यु.) Approved Energy (MU)	क्रैताओं / विक्रेताओं की सं. NO. of Buyers/Sellers	अनुमोदित ऊर्जा (मि.यु.) Approved Energy (MU)
अप्रैल 2015 Apr'15	2495	2493	1134	4029
मई 2015 May'15	2547	2913	1314	4481
जून 2015 June'15	2453	2468	1172	6440
जुलाई 2015 July '15	2536	2535	1011	6752
अगस्त 2015 Aug '15	2592	2776	1380	6902
सितंबर 2015 Sep '15	2586	3195	1461	5976
अक्टूबर 2015 Oct '15	2659	3253	1369	4714
नवम्बर 2015 Nov'15	2487	2728	1072	4953
दिसम्बर 2015 Dec'15	2662	2991	922	5492
जनवरी 2016 Jan'2016	2716	2864	820	5087
फरवरी 2016 Feb'2016	2530	2814	882	4315
मार्च 2016 Mar'2016	2795	3061	1039	4854
कुल TOTAL	31058	34091	13576	63996

मासिक डी एस एम बिलिंग का ब्योरा 2015-16  
 MONTHLY DSM BILLING DETAILS 2015-16

अनंतिम आकड़े  
 Provisional data  
 subject to change

करोड़ रु. में (RS. IN CRORES)

क्षेत्र REGION	उत्तरी क्षेत्र NORTH	पश्चिमी क्षेत्र WEST	दक्षिणी क्षेत्र SOUTH	पूर्वी क्षेत्र EAST	पूर्वोत्तर क्षेत्र NORTH EAST
29.02.16 to 06.03.16	18.79	25.45	13.24	19.96	*
07.03.16 to 13.03.16	36.86	27.20	9.60	15.48	*
14.03.16 to 20.03.16	35.62	31.86	13.41	21.41	*
21.03.16 to 27.03.16	44.32	25.52	13.30	29.13	*

\*NERPC website not accessible

15. पावर मार्केट की सूचना ( स्रोत : आई.ई.एक्स. एवं पी.एक्स.आई.एल.)  
POWER MARKET INFORMATION ( Source IEX & PXIL)  
पावर एक्सचेंज के माध्यम से विनिमय - माह मार्च 2016  
EXCHANGES THROUGH POWER EXCHANGES - March 2016

क्र. स. S. No.	क्षेत्रीय इकाई Regional Entity	क्षेत्र Region	पावर एक्सचेंज के माध्यम से ( मि.यु. मे) Through Power Exchange in MU	
			विक्रय Sale	क्रय Purchase
1	पंजाब Punjab	उत्तरी क्षेत्र NR	22.22	163.34
2	हरियाणा Haryana		79.21	210.86
3	राजस्थान Rajasthan		61.27	404.21
4	दिल्ली Delhi		40.69	150.32
5	उत्तर प्रदेश Uttar Pradesh		0.00	80.76
6	उत्तराखण्ड Uttarakhand		4.17	124.14
7	हिमाचल प्रदेश Himachal Pradesh		108.10	50.72
8	जम्मू और कश्मीर J & K		20.68	2.17
9	केंद्र शासित चंडीगढ़ UT Chandigarh		8.89	0.16
10	ए डी हाइड्रो AD Hydro		13.15	0.00
11	करचम वांगतू KW		63.29	0.00
12	श्री सीमेंट Shree Cement		71.85	0.00
13	नाथपा झाकरी Nathpa Jhakri		23.43	0.00
14	बैरासूल Baira Siul HEP(BS0)		1.67	0.00
15	चमेरा -1 Chamera-I HEP(CM1)		1.88	0.00
16	चमेरा -2 Chamera-II HEP(CM2)		1.41	0.00
17	धौलीगंगा Dhauliganga HEP(DG0)		0.68	0.00
18	दुलहस्ती Dulahasti HEP(DU0)		3.00	0.00
19	सलाल Salal HEP(SL0)		5.92	0.00
20	सेवा -2 Sewa-II NHP(SW2)		1.98	0.00
21	टनकपुर Tanakpur HEP(TP0)		0.13	0.00
22	उरी Uri HEP(UR0)		8.12	0.00
23	लांको बुधिल LANCO Budhil		0.55	0.00
24	चमेरा-3 chamera 3		0.72	0.00
25	अदानी एचवीडीसी ADANI HVDC(NORGUO)		0.00	0.00
26	मलाना MALANA		0.80	0.00
27	उरी-II Uri-II HEP(UR2)		5.12	0.00
28	पार्वती-III Parbati-II		0.40	0.00
29	मध्य प्रदेश MP	पश्चिमी क्षेत्र WR	94.29	15.81
30	महाराष्ट्र Maharashtra		45.59	148.05
31	गुजरात Gujarat		27.27	308.41
32	छत्तीसगढ़ Chattisgarh		59.58	7.97
33	गोवा Goa		2.76	16.32
34	दमन और दीव Daman and Diu		0.00	40.28
35	दादरा और नगर हवेली Dadra & Nagar Haveli		0.00	0.00
36	जिंदल JD		195.51	0.00
37	लांको अमरकंटक LANCO AMIK		0.00	0.00
38	आर्यन कोल ACB India Limited		38.04	0.00
39	जिंदल स्टील एंड पावर Jindal Steel and Power Ltd		79.14	0.00
40	बालको -2 Balco-II		52.97	0.00
41	स्टरलाइट Sterlite(w3rse0)		281.47	0.00
42	एमको EMCO		0.00	0.00
43	वन्दना विद्युत VANDANA VIDYUT		0.00	0.00
44	एस्सार पावर ESSAR POWER		0.00	0.00
45	एस्सार स्टील ESSAR STEEL		0.00	335.78
46	के एस के महानदी KSK Mahanadi		0.00	0.00
47	जिंदल स्टेज -II Jindal Stg-II		22.17	0.00
48	कोरबा (प.) Korba(W) Comp. Ltd.		203.91	0.00
49	डी बी पावर D B Power		154.81	0.00
50	धारीवाल Dhariwal		5.80	0.00
51	जे पी निगी Jaypee Nigire		3.86	0.00
52	जी एम आर छत्तीसगढ़ GMR Chhattisgarh		119.15	0.00
53	डी जीईएन मेगा पावर DGEN Mega Power		0.00	0.00
54	एम बी मेगा पावर MB Power		0.00	0.00
55	एपीएल मुंद्रा स्टेज-I APL Mundra Stg-I		52.65	0.00
56	एपीएल मुंद्रा स्टेज-II APL Mundra Stg-II		27.60	0.00
57	एपीएल मुंद्रा स्टेज-III APL Mundra Stg-III		121.33	0.00
58	टोरेंट सुगेन Torrent Sugem		0.00	0.00
59	मारुति कोल Maruti Coal		0.00	0.00
60	स्पेक्ट्रम Spectrum		28.46	0.00

15. पावर मार्केट की सूचना ( स्रोत : आई.ई.एक्स. एवं पी.एक्स.आई.एल.)  
POWER MARKET INFORMATION ( Source IEX & PXIL)  
पावर एक्स्चेंज के माध्यम से विनिमय - माह मार्च 2016  
EXCHANGES THROUGH POWER EXCHANGES - March 2016

क्र. स. S. No.	क्षेत्रीय इकाई Regional Entity	क्षेत्र Region	पावर एक्स्चेंज के माध्यम से ( मि.यु.मे) Through Power Exchange in MU	
			विक्रय Sale	क्रय Purchase
61	आंध्र प्रदेश Andhra Pradesh	दक्षिणी क्षेत्र SR	10.67	127.93
62	कर्नाटक Karnataka		0.00	130.89
63	केरल Kerala		3.60	67.64
64	तमिलनाडु Tamilnadu		0.00	14.12
65	पॉण्डिचेरी Pondicherry		0.00	0.00
66	गोवा Goa		0.00	0.00
67	लाको कोडापल्ली LANCO KONDPLY		0.00	0.00
68	सिमापुरी SIMHAPURI		2.88	0.00
69	मीनाक्षी MINAXI		40.94	0.00
70	तेलंगाना TELANGANA		25.88	130.98
71	थर्मल पावर टेक Thermal Power Tech		93.34	0.00
72	कोस्टल इनरजेन Coastal Energen		10.96	0.00
73	आइ एल & एफ एस IL&FS		0.29	0.00
74	पश्चिम बंगाल West Bengal		20.15	173.11
75	उड़िशा Odisha	43.73	27.27	
76	बिहार Bihar	0.00	251.41	
77	झारखंड Jharkhand	0.00	0.00	
78	सिक्किम Sikkim	6.77	0.00	
79	दामोदर घाटी परियोजना DVC	43.29	0.00	
80	स्टरलाइट STERLITE	0.00	0.00	
81	मैथन पावर लिमिटेड Maithon P. Ltd	3.40	0.00	
82	आधुनिक पा. लिमिटेड Adhunik P.Ltd	55.61	0.00	
83	चुजाचैन Chuzachen HEP	10.43	0.00	
84	रंगित Rangit HEP	0.00	0.00	
85	तेस्ता Teesta HEP	0.00	0.00	
86	जीएमआर कमलंगा GMR Kamalanga	3.45	0.00	
87	जिंदल आई पी टी एल JIPTL	415.03	0.00	
88	जोरथांग Jorethang	12.45	0.00	
89	अरुणाचल प्रदेश Arunachal Pradesh	0.00	11.31	
90	असम Assam	17.81	45.21	
91	मणिपुर Manipur	11.07	2.24	
92	मेघालय Meghalaya	6.38	5.71	
93	मिज़ोरम Mizoram	1.89	0.76	
94	नागालैंड Nagaland	0.00	10.80	
95	त्रिपुरा Tripura	55.60	2.68	
96	अगरतला जीटीपीपी Agartala GTPP AGO	0.00	0.00	
97	कोपिली KOPILI KP1	0.00	0.00	
98	असम जीबीपीपी Assam GBPP KTO	0.00	0.00	
99	लोकटक LOKTAK	0.00	0.00	
100	रंगानदी Ranganadi	0.00	0.00	
101	दोयांग Doyang	0.00	0.00	
102	पलाताना Palatana	0.00	0.00	
	कुल Total		3061.33	3061.33

**16. RENEWABLE ENERGY CERTIFICATE MECHANISM****MONTH:-March 2016****RE Source & Unit wise break up (01.03.2016-31.03.2016)**

Sr.No	Source Wise	Accreditation		Registration	
		Capacity (MW)	Unit	Capacity (MW)	Unit
1	Wind	18.05	6	74.8	11
2	Urban or Municipal Waste	0	0	0	0
3	Solar Thermal	0	0	0	0
4	Solar PV	15	3	3	3
5	Small Hydro	14.5	6	0	0
6	Others	0	0	0	0
7	Geothermal	0	0	0	0
8	Biomass	27.8	1	32.3	2
9	Bio-fuel cogeneration	0	0	8	1
	<b>Total</b>	<b>75.35</b>	<b>16</b>	<b>118.1</b>	<b>17</b>

**RECs Issued (01.03.2016-31.03.2016)**

Sr.No.	Non Solar	Solar	Total
1	818392	187049	1005441

**Redemption of REC (01.03.2016-31.03.2016)**

Sr.No.	Non Solar	Solar	Total
1	1187965	152660	1340625

**16. RENEWABLE ENERGY CERTIFICATE MECHANISM****MONTH:-March 2016****RE Source & Unit wise break up (Apr-15- Mar-16)**

Sr.No	Source Wise	Accreditation		Registration	
		Capacity (MW)	Unit	Capacity (MW)	Unit
1	Wind	229.9	40	180.1	32
2	Urban or Municipal Waste	0	0	0	0
3	Solar Thermal	0	0	0	0
4	Solar PV	71.26	40	61.87	44
5	Small Hydro	23	9	32.5	4
6	Others	0	0	0	0
7	Geothermal	0	0	0	0
8	Biomass	46.04	5	48.04	6
9	Bio-fuel cogeneration	54.5	8	55.68	8
	<b>Total</b>	<b>424.7</b>	<b>102</b>	<b>378.19</b>	<b>94</b>

**RECs Issued (Apr-15- Mar-16)**

Sr.No.	Non Solar	Solar	Total
1	7358397	2375443	9733840

**Redemption of REC (Apr-15- Mar-16)**

Sr.No.	Non Solar	Solar	Total
1	4655016	664079	5319095

**16. RENEWABLE ENERGY CERTIFICATE MECHANISM****MONTH:-March 2016****RE Source & Unit wise break up Since Inception to Mar 16**

Sr.No	Source Wise	Accreditation		Registration	
		Capacity (MW)	Unit	Capacity (MW)	Unit
1	Wind	2500.64	630	2301.45	598
2	Urban or Municipal Waste	8	1	0	0
3	Solar Thermal	3	1	0	0
4	Solar PV	648.21	322	623.42	309
5	Small Hydro	327.19	39	299.69	35
6	Others	1.67	1	1.67	1
7	Geothermal	0	0	0	0
8	Biomass	707.52	75	699.02	74
9	Bio-fuel cogeneration	953.78	108	890.46	103
	<b>Total</b>	<b>5150.01</b>	<b>1177</b>	<b>4815.71</b>	<b>1120</b>

**RECs Issued since Inception to Mar 16**

Sr.No.	Non Solar	Solar	Total
1	27356189	4219234	31575423

**Redemption of REC since Inception to Mar 16**

Sr.No.	Non Solar	Solar	Total
1	14075183	908272	14983455

**REC Closing balance as on 31.03.2016**

Sr.No.	Non Solar	Solar	Total
1	13281006	3310962	16591968

### 17. Major Grid Events for March 2016

S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Outage Duration	Event (As reported)	Generation Loss(MW)	Load Loss(MW)	Category as per CEA Grid Standards
				Date	Time	Date	Time					
1	ER	1) 220 kV Subasgram(PG)-CESC-II 2) 220 Subasgram(PG)-Subagram(WB) D/C 3) 220 kV Subasgram(PG)-New town 4) 220 kV Subagram(WB)- Subasgram(PG) D/C 5) 220 kV Subagram(WB)-kasba D/c 6) 220 kV Subagram(wb)- Lakhikantpur D/c	WBSETCL/ PG	01-03-2016	09:39	01-03-2016	10:19	00:40	220 kV Bus I at Subhasgram (PG) tripped due to mal operation of bus bar differential relay. Due to this, all the lines connected to Bus-I : 220 kV Subasgram(PG)-CESC-II,220 Subasgram(PG)-Subagram(WB) D/C, 220 kV Subasgram(PG)-New town also tripped. At the same time, CESC got separated from kasba point (later synchronised at Howrah point at 9:46 hrs). All 220 kV lines emanating from Subasgram(WB) i.e 220 kV Subagram(WB)-Subasgram(PG) D/C,220 kV Subagram(WB)-kasba D/c and 220 kV Subagram(wb)- Lakhikantpur D/c also tripped at 09:39 Hrs causing load loss of 150 MW at Subasgram(WB),Lakhikantpur.		150	GD-1
2	ER	1) 315 MVA, 400 /220 kV ICT –II 2)500MVA, 400 /220 kV ICT –III at Muzzafarpur	PG	01-03-2016	17:55	01-03-2016	19:50	01:55	315 MVA, 400 /220 kV ICT –II tripped due to auxiliary tripped relay mal operation and subsequently 500 MVA, 400 /220 kV ICT –III tripped on O/C at Muzzafarpur(PG).		580	GD-1
3	WR	Tripping of 1. 220 kV Badod-Ujjain-2 2. 220 kV Badod-Nipaniya S/C 3. 220/132 Transformer-I 4. 220 kV Bus-I due to bus bar protection operation at Badod	MPPTCL	01-03-2016	19:05	01-03-2016	20:36	01:31				GI-1
4	WR	Tripping of 1. 765 kV Aurangabad-Solapur-I 2. 765 kV Aurangabad-Solapur-II ckt I on R-E Fault ckt II on B-E Fault	PGCIL	01-03-2016	22:05	01-03-2016	22:38	00:33	At 22:05 hrs, 765 kV Aurangabad-Solapur-I tripped on R-N Fault and at 22:06 hrs, circuit-II tripped on B-N Fault. After tripping of Circuit-I the flow on Circuit-II crossed 2000 MW before tripping.The angular separation between Thrissur and Vindhyachal crossed 110 degrees which was initially 77 degrees.Due to the tripping flow on 400 kV Wardha-Parli D/c crossed 800 MW per circuit. The flow on 400 kV Parli-Solapur D/c crossed 830 MW per circuit.			GI-2
5	NR	1)400kV Jallandhar(PG)-Chamba-1 2)400kV Jallandhar(PG)-Moga(PG)-1 3)400kVJallandhar(PG)-Chamera-II 4)400kV Chamba-Chamera-I	POWERGRID/NHPC	02-03-2016	01:08	02-03-2016	04:52	03:44	Multiple elements tripped at 400kV Jallandhar (PG) on overvoltage along with 400kV Chamera1-Chamba.			GI-2
6	SR	Complete outage at NTPL TPS (NLC TAMILNADU POWER LIMITED)	NTPL	02-03-2016	07:20	02-03-2016	08:20	01:00	400kV NTPL-Coastal line & 400kV NTPL-Tuticorin PS line tripped on transient faults. Line did not auto-reclose at NTPL end. Running Unit-1&2 at NTPL tripped after tripping of both evacuating feeders	900		GD-1
7	NER	400 kV BgTPP - Bongaigaon I & II, BgTPP Unit 1	NTPC/ POWERGRID	02-03-2016	12:42	02-03-2016	14:00	01:18	Bongaigaon Thermal Power Station was connected with rest of NER Grid through 400 kV Bongaigaon-BgTPP(NTPC) I & II lines. At 12:42 Hrs on 02.03.16 , 400 kV Bongaigaon-BgTPP(NTPC) I & II lines tripped. Due to evacuation problem, BgTPP was blacked out.	151	0	GD-2
8	SR	Complete outage of 220kV Regulapadu Station of APTRANSCO	APTRANSCO	02-03-2016	14:32	02-03-2016	15:30	00:58	Triggering incident was failure of 220kV R-phase metering Potential transformer at 220kV Ragulapadu Substation. Bus bar protection is not active/ available at Regulapadu substation. This resulted in tripping of remote end source feeders on operation of zone-2 protection. .			GD-1
9	NR	1) 220kV Wagoora(PG)-Pampore(JK) 1&2 2)Wagoora(PG)-Zainkot(JK) 1&2	POWERGRID/J&K	03-03-2016	16:34	03-03-2016	16:46	00:12	Multiple elements tripped at 220kV Wagoora due to bus bar protection operation at 220 Wagoora.		600	GD-1
10	NER	132 kV Lumshnong - Panchgram	AEGCL/ MePTCL	04-03-2016	08:04	04-03-2016	08:15	00:11	Lumshnong area of Meghalaya was connected with rest of NER Grid through 132 kV Lumshnong - Panchgram line(132 kV Lumshnong - Khliehriat line kept open for system requirement) . At 08:04 Hrs on 04.03.16 ,132 kV Lumshnong - Panchgram line tripped. Due to tripping of this element, Lumshnong area was separated from rest of NER Grid and subsequently collapsed due to no source	0	14	GD-1
11	NR	1)All 220kV feeders at Ludhiana(PG)	POWERGRID/Punjab	04-03-2016	10:16	04-03-2016	10:24	00:09	Multiple elements tripped at 220kV Ludhiana(PG) due to mal-operation of 220kV relay at Ludhiana.		700	GD-1



S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Outage Duration Time	Event (As reported)	Generation Loss(MW)	Load Loss(MW)	Category as per CEA Grid Standards
				Date	Time	Date	Time					
12	NR	1)400kV Chamera-1(NHPC)-Jalandhar(PG) ckt-1 2)Unit #1 and #3 at Chamera-1	POWERGRID/ NHPC	05-03-2016	06:04	05-03-2016	06:27	00:23	400kV Chamera I(NHPC)-Jalandhar(PG) ckt-1 tripped on overvoltage. Chamera-1 unit#1 & #3 tripped due to tripping of line.	380		GD-1
13	WR	Tripping of 1. 200 MW Unit-1 2. 200 MW Unit-2 3. 200 MW Unit-3 4. 500 MW Unit-4 5. 500 MW Unit-5 6. 500 MW Unit-6 due to tripping of station transformer at Korba	NTPC	06-03-2016	06:50	06-03-2016	11:11	04:21	Due to tripping of Station transformer at Korba, Unit 1-6 has tripped at Korba NTPC.	1500		GI-2
14	NR	1)400kV Bareilly(UP)-Bareilly(PG) 1&2 2)400kV Bareilly(UP)-Unnao(UP) 1&2 3)220kV Bareilly(UP)- CB Ganj2 4)220kV Bareilly(UP)-Shajhanpur	POWERGRID/ UP	06-03-2016	14:30	06-03-2016	15:04	00:34	Multiple elements tripped at 400/220kV Bareilly (UP).		400	GD-1
15	NER	132 kV Imphal(PG)- Imphal (MA) I & II	MSPCL/ POWERGRID	07-03-2016	15:23	07-03-2016	15:45	00:22	Capital area & Karong area of Manipur were connected with rest of NER Grid through 132 kV Imphal-Imphal I & II lines (132 kV Kakching-Kongba line & 132 kV Karong-Kohima line kept open for system requirement). At 15:23 Hrs on 07.03.16,132 kV Imphal-Imphal I & II lines tripped. Due to tripping of these elements, Capital area & Karong area were separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	28	GD-1
16	WR	Tripping of 1. 220/132 kV, 160 MVA AREVA make X'mer from 132 kV side at 220 kV S/s Satna. 2. 220/132 kV, 160 MVA AREVA make X'mer from 132 kV side at 220 kV S/s Satna. 3. 132/33 kV, 63 MVA X'mer at 220 kV S/s Satna. 4. 132/33 kV, 40 MVA X'mer at 220 kV S/s Satna. 5. 132 kV Satna – Panna Ckt. 6. 132 kV Satna – Pawai Ckt. 7. 132 kV Satna – Nagod Ckt. 8. 132 kV Satna – Satna Cement. 9. 132 kV Satna – Prism Cement. 10. 132 kV Interconnector – I & II. due to LBB protection operation at 220 kV Satna	MPPTCL	07-03-2016	17:05	07-03-2016	17:13	00:08	At around 17:10 Hrs., 132 kV Satna – Majhgawan Ckt tripped due to R-phase Disk failure at Loc. No.103 due to conductor snapping. At the same time LBB protection of 132 kV Satna – Satna Cement Ckt Mal-operated at 220 kV S/s Satna resulting in tripping of all feeders and transformers connected to 132 kV Bus at 220 kV S/s.		117	GI-1
17	NR	1)765kV Balia(PG)-Varanasi(PG)-1 2) 765/400kV Varanasi 1500 MVA ICT-1	POWERGRID	07-03-2016	19:39	08-03-2016	23:38	1 day 3 hours and 59 min	Multiple elements tripped at 765/400kV Varanasi (PG). LA damaged during heavy thunderstorm at Varanasi end.			GI-2
18	ER/SR	1) HVDC Talcher-Kolar Pole-I 2) Sterlite Unit-I	PG	08-03-2016	01:29	08-03-2016	02:12	00:43	HVDC Talcher - Kolar Pole -I tripped at 01:29 Hrs on 08/03/16 due to valve cooling problem at Talcher end.Prior to tripping HVDC Talcher-Kolar flow was 1950 MW as the Pole Tripped it came to Ground return mode and then to metallic return mode and flow became 950 MW.GMR Generation reduced by 165 MW (from 520 MW to 355 MW) .JITPL Generation reduced by 200 MW (from 815 MW to 615 MW ).STERLITE Generation reduced from 300 MW to 0 MW as the machine was not running on full load and as it received the SPS signal for reduction of 200 MW machine got tripped .	650	1000	GI-2
19	ER/SR	1) HVDC Talcher-Kolar Pole-II 2) Talcher Unit-VI	PG	08-03-2016	05:44	08-03-2016	07:07	01:23	HVDC Talcher - Kolar Pole -II tripped due to line fault from Kolar end.(distance 94.28km tower no: 3441)Prior to tripping HVDC Talcher-Kolar flow was 2050 MW as the Pole Tripped it came to Ground return mode flow became 110 MW. At 07:07 hrs it came to metallic return mode and flow became 1200 MW.	1000	1100	GI-2

S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Outage Duration Time	Event (As reported)	Generation Loss(MW)	Load Loss(MW)	Category as per CEA Grid Standards
				Date	Time	Date	Time					
20	WR	Tripping of 1. 400/220 kV 315 MVA ICT-2 at Jabalpur 2. 220 kV Jabalpur-Sukha-II due to bus bar protection operation at 220 kV Jabalpur(MP)	PGCIL/MPPTCL	08-03-2016	06:39	08-03-2016	12:27	05:48				GI-1
21	NR	1)400/220kV Bawana 315MVA ICT-4 2)400kV Bawana-Mundka ckt 1&2 3) 220kV Bawana-Rohini ckt-1 & 2	DTL	08-03-2016	12:00	08-03-2016	12:41	00:41	Fault was in 220kV Bawana-Rohini feeder. 400/220kV 315MVA ICT-4 of Bawana station caught fire. As per DR details fault was in Y-phase. At the same time 400kV Mundaka-Bawana also tripped because of A/R lockout relay operation.			GI-2
22	ER	1)220 kV Waria-Bidhannagar D/C 2)220 kV Waria- Mejia D/C 3)220 kV Waria-Parulia D/C 4) Waria Unit-IV	DVC	09-03-2016	23:47	10-03-2018	00:02	00:15	While desynchronizing U#4 (210 MW) of DTPS (Waria) due to boiler tube leakage at 23:47 Hrs. , 09.03.16 , Y phase pole of CB of corresponding G.T got stuck . To isolate the unit 220 kV Bus at Waria was made dead by opening all emanating 220 kV lines Traction power of 20 MW got interrupted but immediately normalized by feed extension from respective remote ends of Kalyaneswari and Burdwan . 132 kV Industrial load of Alloy Steel Plant of 40 MW also got interrupted along with 20 MW of local 33		80	GD-1
23	ER/WR	1)765 kV Angul-Jharsuguda D/C 2)765 kV Dharamjaigarh- Jharsuguda D/C 3)1500 MVA X2 , 765/400 kV ICT s at Jharsuguda	PG	10-03-2016	06:49	11-03-2018	19:33	12:43	Cable trench of control cable of 765 kV switchyard at Jharsuguda caught fire at around 06:40 hrs. resulting into control DC & AC failure at Jharsuguda . To de energize 765 kV system , 1) 765 kV Angul-Jharsuguda D/C switched off at 06:49 hrs . from Angul 2) 765 kV Dharamjaigarh- Jharsuguda D/C switched off at 06:51 hrs from Dharamjaigarh 3) 1500 MVA X2 , 765/400 kV ICT s opened from 400 kV side			GI-2
24	ER/SR	1) 400kV Rengali-Indravati 2)315MVA ICT-1 &2 at Mendhasal 3)HVDC Gajuwaka Pole 1&2 4) 400 kV Jeypore-Gajuwaka 1&2	GRIDCO/PG	10-03-2016	12:24	10-03-2018	13:45	01:21	400kV Rengali-Indravati tripped and subsequently 315MVA ICT-1 &2 at Mendhasal carrying 270MW tripped at 12:29 hrs. Voltage at Jeypore went down. With this, HVDC Gajuwaka Pole 1&2 blocked along with tripping of Jeypore-Gajuwaka 1&2 at 12:31 hrs. Loss of Load approx.. 600MW and Generation loss of 235MW (UK-160, UI-50 & Ballimela-25MW) reported. South Odisha 220kV system also collapsed.	235	600	GD-1
25	NR	1)400kV Kanpur(PG)-Panki(UP) ckt 1&2 2)400/220kV Panki 240 MVA ICT-1	POWERGRID/UP	10-03-2016	14:35	10-03-2016	17:54	03:19	Multiple elements tripped at 400/220kV Panki(UP) due to busbar protection operation at Panki.			GI-2
26	SR	Complete outage of 220kV Malyalapalli Station of TSTRANSCO	TSTRANSCO	10-03-2016	18:40	10-03-2016	19:08	00:28	CT failure occurred in 220kV Ramagundam-Malyalapalli line-1. CT failure resulted into a Bus fault. Busbar protection was taken out of srvice to replace CPU. Hence feeders tripped on zone-2 protection from remote ends.			GD-1
27	NR	1) 1150MW Wind generation in Rajasthan	Rajasthan	11-03-2016	00:27	11-03-2016	00:31	00:04	Around 1150MW wind generation tripped in Rajasthan.	1150		GD-1
28	WR	Tripping of 1. 220kV Kalwa- Knowledge park 2. 220/100kV 200MVA ICT 1 3. 220/100kV 200MVA ICT 2 4. 220kV Bus section 5. 220kV interconnector 6. 100kV kalwa nocil II 7. 100kV kalwa salsette I 8. 100kV kalwa kalyan 9. 100kV kalwa mukand II 10. 100kV kalwa mumbra 11. 100kV bus section 12. 100kV kalwa nocil I 13. 100kV kalwa washi I 14. 100kV Bus section 15. 22kV feeders 6 nos. due to fire at 220kV/22kV 50MVA T/f no. 1 oil drain in cable trenches due to which control cable	MSETCL	11-03-2016	02:20	11-03-2016	03:10	00:50	At 02:25 Hrs, 220/22kV 50 MVA TF no-1 Make CGL at 220 kV Kalwa substation caught fire & tripped on following indications. Simultaneously the 220 kV LBB protection of 220 kV AKP feeder operated, resulted into tripping of all 220 kV feeders connected to 220kV bus zone 2 (Creek side). Also the 100 kV bus bar zone 2 protections operated due to melting & resting of dummy tower conductor on 100kV bus, resulted into tripping of all feeders connected to 100kV bus zone 2 (Creek side).		207	GI-1

S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Outage Duration Time	Event (As reported)	Generation Loss(MW)	Load Loss(MW)	Category as per CEA Grid Standards
				Date	Time	Date	Time					
29	NR	1) 400kV Meerut(PG)-Bareilly(PG) ckt-2 2) 400/220kV, 315MVA ICT#2 at Meerut(PG)	POWERGRID	11-03-2016	06:23	11-03-2016	06:54	00:31	Multiple elements tripped at 400/220kV Meerut (PG) on phase to earth fault.			GI-2
30	SR	Complete outage of 220kV Srisailem right bank station of APGENCO	APGENCO	11-03-2016	14:36	11-03-2016	14:40	00:04	Fault had occurred in 220kV Srisailem-Bilakaguduru feeder. At Srisailem right bank, BHEL make MOCB could not trip due to problem in breaker mechanism. Breaker lockout condition led to operation of LBB protection relay and tripping of 220kV Bus-I at Srisailem right bank station. Bus-II isolator change over relay for 220kV Srisailem- Mydukuru feeder malfunctioned and operated the Bus-I and Bus-II interconnected relay, which led to extending the trip command from Bus-I to Bus-II. This resulted in tripping of all feeders connected to Bus-II. There was no generation at the time of tripping			GD-1
31	ER	1) 400 kV Sterlite-Meramundali-I & II 2) Sterlite Unit#2	Sterlite	12-03-2016	14:58	12-03-2018	16:26	01:28	400 kV Sterlite-Meramundali-II (R-N Fault) & 400 kV Sterlite-Meramundali-I (B-N Fault) tripped.Before tripping of Ckt.I, Sterlite Unit#2 was generating 400 MW approx. These two lines were dedicated for power evacuation of Unit 2, but as both lines tripped, Sterlite Unit#2 also tripped.	400		GD-1
32	NR	1)400kV Bawana-Mundka D/C 2)400kV Bawana-Bawana(GT) D/C 3)400kV Bahadurgarh (PG)-Bawana (GT) 4)400kV Bawana(GT)-Bhiwani (PG), 5) 400kV Bawana-Mandola(PG)	POWERGRID/DTL	12-03-2016	17:35	12-03-2016	17:49	00:14	Multiple elements tripped at 400kV Bawana(Delhi) & Bawana GPS. Phase to earth fault reported.			GI-2
33	NR	1) All 400kV elements at Lucknow (PG) 2)220kV Lucknow(PG)-Chinhat(UP) 3) 765/400kV both ICTs at Unnao	POWERGRID/UP	13-03-2016	09:22	13-03-2016	10:34	02:09	Failure of Y-ph gantry insulator string of 400kV Bus-1 at Lucknow(PG) resulted in bus fault. BBP didn't operate resulting in tripping of all 400kV elements in Zone-2/Reverse zone. Along with it, 220kV Lucknow(PG)-Chinhat(UP) & 765/400kV both ICTs at		250	GD-1
34	SR	Complete outage at NTPL TPS (NLC TAMILNADU POWER LIMITED) and Coastal TPS	NTPL/Coastal Energen	14-03-2016	01:36	14-03-2016	03:04	01:28	Tripping of 400kV NTPL-tuticorin line tripped due to transient fault. NTPL end did not auto-reclose. Y pole of breaker did not close while closing breaker from NTPL end. 400kV Coastal-Tuticorin PS line tripped from Tuticorin end on operation of zone-4 which was found to be a mal-operation. Also, after 1 sec of closing of breaker at NTPL, a 3 phase to earth fault had occurred in 400kV NTPL-Tuticorin PS line. Unit at coastal and NTPL tripped due to tripping of 400kV NTPL-Tuticorin PS line and 400kV Coastal-Tuticorin PS line .	1430		GD-1
35	NER	132 kV Imphal(PG)- Imphal (MA) I & II	MSPCL/ POWERGRID	14-03-2016	11:58	14-03-2016	12:09	00:11	Capital area & Karong area of Manipur were connected with rest of NER Grid through 132 kV Imphal-Imphal I & II lines (132 kV Kakching-Kongba line & 132 kV Karong-Kohima line kept open for system requirement). At 11:58 Hrs on 14.03.16 ,132 kV Imphal-Imphal I & II lines tripped. Due to tripping of these elements, Capital area & Karong area were separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	24	GD-1
36	NER	132 kV Aizawl - Zuangtui	POWERGRID	14-03-2016	12:26	14-03-2016	13:59	01:33	Zuangtui area of Mizoram was connected with rest of NER Grid through 132 kV Aizawl- Zuangtui line. At 12:26 Hrs on 14.03.16, 132 kV Aizawl- Zuangtui line tripped. Due to tripping of this element, Zuangtui area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	30	GD-1
37	NR	1) 400kV Fatehabad(PG)-Moga(PG) 2) 400kV Fatehabad(PG)-Hissar(PG)	POWERGRID	14-03-2016	14:15	14-03-2016	19:35	05:20	Multiple elements tripped at 400kV Fatehabad(PG) on overvoltage.			GI-2
38	SR	Complete outage at NTPL TPS (NLC TAMILNADU POWER LIMITED)	NTPL	15-03-2016	03:39	15-03-2016	03:51	00:12	400kV NTPL-Coastal line & 400kV NTPL-Tuticorin PS line tripped on transient fault. Line did not auto-reclose at NTPL end. Running Unit-1&2 at NTPL tripped after tripping of both evacuating feeders	415		GD-1
39	SR	Complete outage of 220kV Peenya substation of KPTCL	KPTCL	16-03-2016	11:49	16-03-2016	11:58	00:09	220kV Peenya-Nelamangala-3 tripped on B-N fault at 11:39 Hrs on 16-03-2016 at both ends. At the same time 220kV Peenya-Nelamangala-4 tripped on R-Y fault at Nelamangala end only but not at Peenya end. Due to tripping of these two lines, 220kV Peenya-Nelamangala-2 tripped on overcurrent protection.		510	GD-1

S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Outage Duration	Event (As reported)	Generation Loss(MW)	Load Loss(MW)	Category as per CEA Grid Standards
				Date	Time	Date	Time					
40	NER	132 kV Balipara - Khupi	NEEPCO	16-03-2016	12:09	16-03-2016	12:36	00:27	Khupi area of Arunachal Pradesh was connected with rest of NER Grid through 132 kV Balipara- Khupi line. At 12:09 Hr on 16.03.16 , 132 kV Balipara- Khupi line tripped. Due to tripping of this element, Khupi area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	18	GD-1
41	ER/NER/Bhutan	1) 400/220 kV ICT-I & II Binaguri 2) 400/220 kV ICT-I at Bongaigaon 3) 220 kV Birpara - Salakati I & II 4) 220 kV BTPS - Salakati I & II, 5) 220 kV Azara-Agia and Azara -Boko 6) Part of Bhutan 7) Rangit Units 8) Chukha Units	PG/WB/Bhutan/Assam/Meghalaya	16-03-2016	18:17	16-03-2016	21:00	01:19	Part of NER Grid (Dhaligaon, Agia and Boko areas of Assam and Nangalbibra area of Meghalaya), North Bengal system, Sikkim system and Bhutan Grid(except Motonga load) were connected with rest of Indian Grid through 400/220/33 kV,315 MVA Bongaigaon ICT, 400/220 kV,315 MVA ICT I&II at Binaguri , 220 kV Bus coupler at Dalkhola ,220 kV Azara – Agia line and 220 kV Azara – Boko line(132 kV Nangalbibra-Nongstoin line,132 kV Rangia-Bornagar line & 132 kV Rangia-Nalbari line kept open for system requirement and 400/220 kV, 200 MVA ICT-I at Malbase was taken in shutdown at 16:27 hrs due to problem in R phase LA,400 kV Binaguri – Bongaigaon – III, 400 kV Balipara – Bongaigaon – III and 400 kV Balipara – Biswanath Chariali – III were open due to over-voltage, 400 kV Patna- Kishanganj I & II lines were under breakdown).At 17:57 hrs, Dakhola Bus coupler was opened to reduce loading of 220 kV Purnea - New Purnea D/C which was around 180 MW per circuit. With the opening of the bus coupler at Dalkhola, 220 kV Dalkhola - Dalkhola(WB)-D/C and 220 kV Dakhoila - Siliguri were on one bus while 220 kV Dalkhola - Purnea - D/C and Dalkhola - Malda - D/c were on the other bus. Immediately after opening of the ICT at Malbase(Bhutan), flow on Binaguri ICTs increased from around 200 MW to about 300 MW flow (per ICT). The ICT-I tripped at 18:09 hrs due to Back-up over current protection in B phase.At 18:15 Hr Dalkhola bus coupler was again closed to reduce loading of the Binaguri ICT - 2. But Dalkhola bus coupler tripped immediately after closing. ICT – II at Binaguri tripped at 18:17 hrs due to the resulting over-load.Due to the tripping of these two ICTs, the load being met by these ICTs shifted to the 400/220 kV ICT at Bongaigaon. The ICT which was already loaded to around 250 MW further over-loaded and tripped at 18:09 hrs. At 18:17 Hrs on 16.03.16 , 220 kV Azara – Agia line and 220 kV Azara – Boko line tripped. Due to tripping of these elements, part of NER Grid (Dhaligaon, Agia and Boko areas of Assam and Nangalbibra area of Meghalaya), North Bengal system, Sikkim system and Bhutan Grid(except Motonga load) separated from rest of Indian Grid and subsequently collapsed due to no source in this area.In ER the load connected at Dalkhola, Siliguri, Birpara, New Jalpaiguri, Rangit, North Bengal University and Sikkim(except Gangtok) was affected.	85	1009	GD-1
42	WR	Tripping of 1. 400 kV Indore-Indore(MP)-II 2. 400 kV Itarsi-Indore(MP)-II 3. 400 kV Asoj-Indore(MP)-I 4. 400 kV Asoj-Indore(MP)-II 5. 400 kV Indirasagar-Indore(MP)-II 6. 400/220 kV 315 MVA ICT-II due to bus bar protection operation at	MPPTCL	18-03-2016	01:22	18-03-2016	02:03	00:41	At 01:22 Hrs, R phase CT of 400/220 kV ICT 4 at Indore burst and Caught fire resulting in Bus fault on 400 kV Main Bus 1 and tripping of 400 kV Connected feeders and Bus coupler.			GI-2
43	SR	Complete outage of 220kV Hubli staiton of KPTCL	KPTCL	18-03-2016	14:24	18-03-2016	14:56	00:32	Complete outage of 220kV Hubli of KPTCL. All connected lines at 220kV Hubli tripped from remote ends on operation of distance protection zone-2 due to Bus fault at 220kV Hubli. Bus bar protection is not functional at 220kV Hublisation.		290	GD-1

S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Outage Duration	Event (As reported)	Generation Loss(MW)	Load Loss(MW)	Category as per CEA Grid Standards
				Date	Time	Date	Time					
44	WR	Tripping of 1. 220 kV Bableshtar-Nasik 2 2. Nashik Unit 5 3. Bus Section 3 due to operation of Bus bar protection.	MSETCL	18-03-2016	14:30	18-03-2016	14:54	00:24	220 kV Bus bar protection for Bus section 3 operated at 220 kV Nasik GCR causing tripping of 220 kV Nasik-bableshtar line and Unit 5.	149		GI-1
45	SR	Complete outage of 220kV Ambewadi station and Nagjheri station of KPTCL	KPTCL	18-03-2016	14:37	18-03-2016	15:13	00:36	220kV ambewadi-Narendra line-1&2 were feeding 220kV Ambewadi due to tripping of lines at 220kV Hubli. Ambewadi Narendra line-2 tripped on fault and 220kV ambewadi Narendra line-1 tripped due to over-loading. Running Units at Nagjheri also tripped during the event due to tripping of evacuating lines	300	333	GD-1
46	NR	1)All elements at 220kV Obra Bus-1 2)400kV Anpara-Obra 3)400kV Anpara-Sarnath ckt-1 4)400kV Anpara-Singrauli ckt 5) Unit-2,3 of 210MW of Anpara TPS 6) Unit-4&5 of 500MW of Anpara TPS	UP	18-03-2016	15:47	18-03-2016	16:29	00:42	Fault occurred on 220 kV Obra-Sahupuri-I line but DP Relay at Obra S/S did not give trip command so CB of Obra end did not open. Therefore, all the elements connected to 220 kV Bus -I at Obra tripped on distance protection from remote ends and Bus became dead. Fault current kept flowing through 400 kV Obra-Anpara. At Anpara S/S, CB of 400 kV Obra-Anpara line tripped delayed, which led to the operation of LBB Protection which resulted in tripping of all the elements connected to 400 kV Bus-II	1248		GD-1
47	WR	Tripping of 1. 400 kV Raipur-Tamnar-I 2. 400 kV Raipur-Tamnar-II 3. 400 kV Raipur-Korba-III 4. 400 kV Raipur-Sipat-II due to phase to earth faults due to bad weather	PGCIL/JPL/NTPC	18-03-2016	16:23	18-03-2016	16:59	00:36	Due to Bad weather, four lines from Raipur S/s tripped either on fault or PD operation.			GI-2
48	ER	1) 400 kV Sterlite -Meramundali I & II 2) Sterlite unit II	PG/SEL	18-03-2016	20:57	18-03-2016	22:36	02:19	Due to B-N fault in 400 kV Sterlite -Meramundali I, Ckt -I, tripped and 400 kV Sterlite -Meramundali-II was charged only through the tie of 400 kV Sterlite -Meramundali-I at sterlite end so Ckt II also opened from Sterlite end only . As there is Bus segregation at Sterlite S/S where at Bus-I the elements connected are 400 kV Sterlite -Meramundali I, &II and Sterlite Unit II. So as both the circuits tripped ,Unit 2 also tripped due to loss of evacuation path .	400		GD-1
49	NER	132 kV Loktak - Ningthoukhong	MSPCL	19-03-2016	11:15	19-03-2016	11:27	00:12	Ningthoukhong area of Manipur was connected with rest of NER Grid through 132 kV Loktak-Ningthoukhong line (132 kV Kakching-Kongba line & 132 kV Imphal(PG)-Ningthoukhong line kept open for system constraint). At 11:15 Hrs on 19.03.16 , 132 kV Loktak-Ningthoukhong line tripped. Due to tripping of this element, Ningthoukhong area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	26	GD-1
50	NER	132 kV Khliehriat (PG) - Khliehriat (ME) I & II	MePTCL/ POWERGRID	19-03-2016	11:49	19-03-2016	11:53	00:04	Khliehriat area of Meghalaya was connected with rest of NER Grid through 132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines. (132 kV Panchgram-Lumnsong line, 132 kV NEHU-Umiam line & 132 kV NEHU-Mawlai line were kept open for system requirement). At 11:49 Hrs on 19.03.16,132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines tripped. Due to tripping of these elements, Khliehriat area was separated from rest of NER Grid and subsequent collapsed due to no source in this area.	0	45	GD-1
51	NER	132 kV Khliehriat (PG) - Khliehriat (ME) I & II	MePTCL/ POWERGRID	19-03-2016	12:29	19-03-2016	12:50	00:21	Khliehriat area of Meghalaya was connected with rest of NER Grid through 132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines. (132 kV Panchgram-Lumnsong line, 132 kV NEHU-Umiam line & 132 kV NEHU-Mawlai line were kept open for system requirement). At 12:30 Hrs on 19.03.16 ,132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines tripped. Due to tripping of these elements, Khliehriat area was separated from rest of NER Grid and subsequent collapsed due to no source in this area.	0	13	GD-1

S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Outage Duration Time	Event (As reported)	Generation Loss(MW)	Load Loss(MW)	Category as per CEA Grid Standards
				Date	Time	Date	Time					
52	NER	132 kV Khliehriat (PG) - Khliehriat (ME) I & II	MePTCL/ POWERGRID	19-03-2016	15:45	19-03-2016	16:03	00:18	Capital area & Karong area of Manipur were connected with rest of NER Grid through 132 kV Imphal-Imphal I & II lines (132 kV Kakching-Kongba line & 132 kV Karong-Kohima line kept open for system requirement). At 15:45 Hrs on 19.03.16 ,132 kV Imphal-Imphal I & II lines tripped. Due to tripping of these elements, Capital area & Karong area were separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	33	GD-1
53	ER	1) 220 kV Kasba –Jeerat –II 2) 220 kV Kasba-Jeerat –I 3) 220 kV Kasba –Subasgram(WB) D/C 4)220 kV Subasgram(PG)-Bantala	WBSEB	19-03-2016	16:53	19-03-2016	17:30	01:30	220 kV Kasba –Jeerat –II tripped on B-N fault.At the same time 220 kV Kasba-Jeerat –I,220 kV Kasba –Subasgram(WB) D/C ,220 kV Subasgram(PG)-Bantala also tripped. At the same time, CESC got separated from kasba point (later synchronised at Howrah point at 17:03 hrs). Load loss was 20 MW at Sonarpur area ,downstream of 220 kV Kasba. Inclement weather reported around Kasba.		20	GD-1
54	NR	1)400kV Dhuri(PSTCL)-Rajpura(Th) ckt 1&2 2)400kV Dhuri(PSTCL)-Talwandi Sabo(PSTCL) ckt	Punjab	20-03-2016	15:56	20-03-2016	16:31	00:35	Multiple elements tripped at 400kV Dhuri (Punjab) on overvoltage.			GI-2
55	NER	132 kV Silchar - Dullavcherra	POWERGRID & AEGCL	21-03-2016	03:35	21-03-2016	04:00	00:25	Dullavcherra area of Assam was connected with rest of NER Grid through 132 kV Silchar- Dullavcherra line(132 kV Dullavcherra-Dharmanagar line kept open for system requirement). At 03:35 Hrs on 21.03.16 , 132 kV Silchar- Dullavcherra line tripped. Due to tripping of this element, Dullavcherra area was separated from rest of NER Grid and subsequently collapsed due to no source in this	0	12	GD-1
56	NER	132 kV Silchar - Dullavcherra	POWERGRID & AEGCL	21-03-2016	08:21	21-03-2016	08:30	00:09	Dullavcherra area of Assam was connected with rest of NER Grid through 132 kV Silchar- Dullavcherra line(132 kV P.K Bari-Dharmanagar line kept open for system requirement). At 08:21 Hrs on 21.03.16 ,132 kV Silchar- Dullavcherra line tripped. Due to tripping of this element, Dullavcherra area was separated from rest of NER Grid and subsequently collapsed due to no source in this	0	14	GD-1
57	NR	1)400kV Dhuri(PSTCL)-Rajpura(Th) ckt 1 2)400kV Dhuri(PSTCL)-Talwandi Sabo(PSTCL) ckt	Punjab	21-03-2016	13:01	22-03-2016	13:38	1 day and 37 min	Multiple elements tripped at 400kV Dhuri (Punjab) on overvoltage.			GI-2
58	SR	Complete outage of 220kV Chekanoorani (Madurai) substation of TANTRANSCO	TANTRANSCO	21-03-2016	14:26	21-03-2016	15:31	00:05	Fault had occurred in 230kV Chekanoornay-Sembatty line. R-pole lim opened with a time delay at Chekanoorani end which resulted in operation of LBB protection resulting in outage of 230kV Bus at 230kV Chekanoorani S/s. There is single bus operation at 230kV Chekanoorani S/s			GD-1
59	ER/SR	1) Talcher-Kolar Pole-I 2) Sterlite Unit-I	PG/ Sterlite	22-03-2016	07:35	22-03-2016	09:07	01:32	HVDC Talcher-Kolar Pole-1 tripped due to emergency trip due to fire alarm at Talcher end. Powerflow reduced from 2000 MW to 1000 MW. SPS 1000 operated causing a backing of 70 MW in GMR and a unit 1 at Sterlite generating 371 MW tripped. S1-500 SPS signal received at Kolar.	440	1029	GD-1
60	NR	1)220 kV Mandola-Wazirabad-1, 2 & 4	DTL	26-03-2016	03:54	26-03-2016	05:59	02:05	220 kV Mandola-Wazirabad-2 & 4 tripped on distance protection. Ckt-3 was under shutdown and ckt-1 tripped on over load.		50	GD-1
61	NER	132 kV Imphal(PG)- Imphal (MA) I & II	MSPCL/ POWERGRID	26-03-2016	05:46	26-03-2016	05:58	00:12	Capital area & Karong area of Manipur were connected with rest of NER Grid through 132 kV Imphal-Imphal I & II lines (132 kV Kakching-Kongba line & 132 kV Karong-Kohima line kept open for system requirement). At 05:46 Hrs on 26.03.16,132 kV Imphal-Imphal I & II lines tripped. Due to tripping of these elements, Capital area & Karong area were separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	50	GD-1

S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Outage Duration Time	Event (As reported)	Generation Loss(MW)	Load Loss(MW)	Category as per CEA Grid Standards
				Date	Time	Date	Time					
62	NER	132 kV Imphal(PG)- Imphal (MA) I & II	MSPCL/ POWERGRID	26-03-2016	12:00	26-03-2016	12:11	00:11	Capital area & Karong area of Manipur were connected with rest of NER Grid through 132 kV Imphal-Imphal I & II lines (132 kV Kakching-Kongba line & 132 kV Karong-Kohima line kept open for system requirement). At 12:00 Hrs on 26.03.16,132 kV Imphal-Imphal I & II lines tripped. Due to tripping of these elements, Capital area & Karong area were separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	25	GD-1
63	SR	Complete outage of 400kV Hoody substaiton of KPTCL		26-03-2016	12:42	26-03-2016	13:20	00:38	400kV Hoody-Nellamangala line-1&2 , 400kV Hoody-Kolar line-1&2, 400/220kV ICT-2 at Hoody tripped during the incident. ICT-1&3 were hand tripped after the incident. 3 faults had occurred in 400kV Kolar-Hoody line-2 due to fire beneath line. 1st fault was R-phase to earth fault, 2nd was B-phase to earth and 3rd was 3phase to earth fault. Distance protection of 400kV Neelamangala-Hoody line-1&2 , 400kV Kolar-Hoody line-1 over-reached during the 3rd fault from Neelamangala and Kolar ends and tripped the breakers at respective ends.		800	GD-1
64	NER	132 kV Khliehriat (PG) - Khliehriat (ME) I&II	MePTCL/ POWERGRID	28-03-2016	02:24	28-03-2016	02:33	00:09	Khliehriat area of Meghalaya was connected with rest of NER Grid through 132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines. (132 kV Panchgram-Lumnsnong line, 132 kV NEHU-Umiam line & 132 kV NEHU-Mawlai line were kept open for system requirement). At 02:24 Hrs on 28.03.16,132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines tripped. Due to tripping of these elements, Khliehriat area was separated from rest of NER Grid and subsequent collapsed due to no source in this area.	0	18	GD-1
65	NER	132 kV Silchar - Dullavcherra	POWERGRID & AEGCL	28-03-2016	09:45	28-03-2016	10:20	00:35	Dullavcherra area of Assam was connected with rest of NER Grid through 132 kV Silchar- Dullavcherra line(132 kV Dullavcherra-Dharmanagar line kept open for system requirement). At 09:45 Hrs on 28.03.16 , 132 kV Silchar- Dullavcherra line tripped. Due to tripping of this element, Dullavcherra area was separated from rest of NER Grid and subsequently collapsed due to no source in this	0	20	GD-1
66	NER	132 kV Aizwal - Zuangtui	POWERGRID	28-03-2016	16:06	28-03-2016	16:34	00:28	Zuangtui area of Mizoram was connected with rest of NER Grid through 132 kV Aizawl- Zuangtui line. At 16:06 Hrs on 28.03.16, 132 kV Aizawl- Zuangtui line tripped. Due to tripping of this element, Zuangtui area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	46	GD-1
67	WR	Tripping of 1. 765 kV Bus-I at Koradi(3) 2. 765 kV Tiroda-Koradi(3)-1 due to Bus bar Protection operation at 765 kV Koradi(3)	MEGPTL	29-03-2016	08:40	29-03-2016	12:45	04:05	765 kV BUS-1, Bus bar protection operated Due to Fault in R-Ph CT Bay 710 (Koradi-Tiroda line-1). Along with Bus Bar Operation, Line distance protection Zone -1 R Phase operated with Carrier Send in Both Channel. Main CB Three Phase trip Operated due to operation of Bus Bar Protection, whereas Tie CB AR operated as per Scheme, Subsequently after Tie CB AR operation -Distance protection Zone-1 R-ph and BAY 710 End fault protection operated with DT Send to Tiroda END Due to persisting fault.			GI-2

S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Outage Duration Time	Event (As reported)	Generation Loss(MW)	Load Loss(MW)	Category as per CEA Grid Standards
				Date	Time	Date	Time					
68	ER	1) 400 kV Mendhasal - Baripada 2) 2*400/220 ICT at Mendhasal 3)220 kV Meramundali- Bhanjnagar II 4) 400 kV Mendhasal -New Dubri 5) 400 kV Meramundali - Mendhasal	OPTCL/PG	30-03-2016	15:37	30-03-2016	16:52	01:15	At 15:33 Hrs,400 kV Meramundali -Mendhasal tripped due to R-N fault. As seen from PMU CB at Meramundali opened in Zone-1 first and voltage started to build up then after zone -2 time approx 300 ms CB at Mendhasal end also opened in Zone -2 and finally voltage build upto normal value .Total Fault clearance time was 300 ms. Line was restored at 16:52 Hrs.400 kV Mendhasal - Baripada also tripped from Mendhasal end only.As there was no inter-connection left from Mendhasal so 2*400/220 ICT flow was zero.220 kV Meramundali- Bhanjnagar II also tripped at the same time due to overload.Load loss was at chandaka, Mendhasal, Meramundali. Rest of the load was getting feeded from 220 kV jeypore- jeynagar-theruvalli-narendrapur-Mendhasal path.		400	GD-1
69	ER	1) 400kV Bidhannagar- Durgapur D/C 2) 400kVBidhanagar- PPSP D/C 3) 400kV Bidhannagar – Arambag S/c 4) 400kV Durgapur- Sagardighi –I	WBSETCL	30-03-2016	16:25	30-03-2016	17:48	01:23	During inclement weather condition bus fault had occurred at 400/220kV Bidhannagar S/s. And hence all the elements connected to both 400kV Main Bus-I & Bus-II tripped from Bidhannagar S/s. At the same time 400kV Durgapur-Sagardighi –II also tripped from Durgapur end due to occurrence of SLG (i.e R-N) fault.Relay Indication of Durgapur end.Due to tripping of above mentioned elements from 400/220kV Bidhannagar S/s approx. Load loss occurred at Bidhannagar and its surrounded area.		110	GD-1
70	NER	132 kV Nangalbibra - Mendipathar	MePTCL	30-03-2016	21:50	30-03-2016	22:18	00:28	Nangalbibra & Mendipathar areas of Meghalaya were connected with rest of NER Grid through 132 kV Agia - Mendipathar line((132 kV Nangalbibra-Nongstoin line kept open for system requirement). At 21:50 Hrs on 30.03.16, 132 kV Agia - Medipathar line tripped. Due to tripping of this element, Nangalbibra & Mendipathar areas were separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	57	GD-1
71	NER	132 kV Khliehriat (PG) - Khliehriat (ME) I&II	MePTCL/ POWERGRID	31-03-2016	00:40	31-03-2016	01:11	00:31	Khliehriat area of Meghalaya was connected with rest of NER Grid through 132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines. (132 kV Panchgram-Lumnsnong line, 132 kV NEHU-Umiam line & 132 kV NEHU-Mawlai line were kept open for system requirement). At 00:40 Hrs on ,132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines tripped. Due to tripping of these elements, Khliehriat area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	12	GD-1
72	ER	1) 132 kV Purnea(PG)-Kishenganj-Forbesganj	PG/BSPTCL	31-03-2016	04:40	31-03-2016	05:17	00:37	132 kV Purnea(PG)-Kishenganj-Forbesganj tripped causing load loss including Nepal Load.		130	GD-1
73	NER	132 kV Dimapur (PG) - Kohima	POWERGRID & DoP Nagaland	31-03-2016	05:37	31-03-2016	05:43	00:06	Capital area of Nagaland was connected with rest of NER Grid through 132 kV Dimapur(PG)-Kohima line (132 kV Kohima-Karong line & 66 kV Tuensang-Likimro line kept open for system requirement). At 05:37 Hrs on 31.03.16 ,132 kV Dimapur(PG)-Kohima line tripped. Due to tripping of this element, Capital area was separated from rest of NER Grid and subsequently collapsed	0	11	GD-1
74	NR	1)400kV Rampur-Jhakri ckt 1&2 2)400kV Rampur-Nallagarh ckt 1&2 3)All running units at Rampur.	POWERGRID/SJVNL	31-03-2016	07:55	31-03-2016	16:42	08:47	Multiple elements tripped at 400kV Rampur due to busbar protection operation. Two units of Nathpa jhakri generating 400MW tripped as per planned SPS. Karcham SPS was deactivated.	250MW at Rampur ( additional 400MW at Nathpa on SPS operation)		GD-1
75	NER	132 kV Dimapur (PG) - Kohima	POWERGRID & DoP Nagaland	31-03-2016	09:24	31-03-2016	09:58	00:34	Capital area of Nagaland was connected with rest of NER Grid through 132 kV Dimapur(PG)-Kohima line (132 kV Kohima-Karong line & 66 kV Tuensang-Likimro line kept open for system requirement). At 09:58 Hrs on 31.03.16 ,132 kV Dimapur(PG)-Kohima line tripped. Due to tripping of this element, Capital area was separated from rest of NER Grid and subsequently collapsed	0	14	GD-1



S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Outage Duration	Event (As reported)	Generation Loss(MW)	Load Loss(MW)	Category as per CEA Grid Standards
				Date	Time	Date	Time	Time				
76	SR	HVDC GAJUWAKA POLE 1	Powergrid	31-03-2016	15:09	31-03-2016	16:51	01:42	ASYMMETRIC FAULT			GI-2
77	NER	132 kV Jiribam - Aizwal	POWERGRID	31-03-2016	16:26	31-03-2016	16:59	00:33	Mizoram system was connected with rest of NER Grid through 132 kV Jiribam - Aizwal line (132 kV Aizwal - Kumarghat line & 132 kV Aizwal - Kolasib line were not restored after tripping) . At 16:26 Hrs on 31.03.16 ,132 kV Jiribam - Aizwal line tripped. Due to tripping of this element, Mizoram system was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	40	GD-1
78	NER	132 kV Loktak - Ningthoukhong	MSPCL	31-03-2016	17:25	31-03-2016	17:57	00:32	Ningthoukhong area of Manipur was connected with rest of NER Grid through 132 kV Loktak-Ningthoukhong line (132 kV kakching-Kongba line & 132 kV Imphal(PG)-Ningthoukhong line kept open for system constraint). At 17:25 Hrs on 31.03.16, 132 kV Loktak-Ningthoukhong line tripped. Due to tripping of this element, Ningthoukhong area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	35	GD-1

**18. NEW ELEMENTS COMMISSIONED IN MARCH-2016**

**COMMISSIONING OF NEW GENERATING UNITS**

REGION	SL. NO.	CONSTITUENT	UNIT NAME	UNIT NO	CAPACITY (MW)	DATE	TIME
NR	1	Bajaj Hindustan	Lalitpur TPS	III	600	30.03.16	
WR	2	IPP, Chattisgarh	DB Power	II	600	26.03.16	
	3		BALCO	IV	300	12.03.16	
	4		BALCO	II	300	30.03.16	
SR	5	TSGENCO	Singareni	I	600	12.03.16	
	6	IPP	HNPC	II	520	31.03.16	
ER	7	DVC	Bokaro TPS-A	I	500	22.03.16	

**COMMISSIONING OF NEW ICT's**

REGION	SL. NO.	CONSTITUENT	VOLTAGE LEVEL	SUB-STATION	ICT NO	CAPACITY	DATE	TIME
WR	1	POWERGRID	765/400	Champa	II	1500	24.03.16	
	2	MSETCL	765/400	Aurangabad III (Ektuni)		1500	31.03.16	

**COMMISSIONING OF NEW TRANSMISSION LINES**

REGION	SL. NO.	CONSTITUENT	LINE NAME	CKT NO	KV	DATE	TIME (Hrs)
Inter-Regional / Trans-National	1	POWERGRID	Gaya-Varanasi (LILO of Gaya-Fatehpur at Varanasi)	I	765	10.03.16	
	2		Biharshariff-Varanasi	I	400	30.03.16	
	3		Biharshariff-Varanasi	II	400	29.03.16	
	4	POWERGRID/Bangladesh	Surajmaninagar-Comilla	D/C	400 (charged at 132)	17.03.16	
NR	5	POWERGRID	LILO of Allahabad-Sarnath at Varanasi	I	400	01.03.16	
	6		LILO of Agra-Meerut at Greater Noida	I	765	17.03.16	
	7		Greater Noida-Sikandrabad	D/C	400	21.03.16	
WR	8	JPL	JPL II-Tannar(PG)	III	400	09.03.16	
	9	MSETCL	Akola (II)-Aurangabad(III) (Ektuni)	II	765	31.03.16	
	10		Aurangabad III (Ektuni) - Aurangabad II (Taptithanda)	II	400	30.03.16	
SR	11	APTRANSCO	Kurnool-Jammalamadugu	I	400	03.03.16	
	12		LILO of VTSPS-Malkaram at Suryapet	I	400	30.03.16	
	13	POWERGRID	Nellore PS -NCC	I	400	20.03.16	
ER	14	POWERGRID	LILO of Dalkhola-Siliguri at Kishanganj	D/C	220	01.03.16	
	15		Patna-Kishanganj	I	400	15.03.16	
	16		Patna-Kishanganj	II	400	14.03.16	
	17		LILO of Binaguri-Purnea III & IV at Kishanganj	III & IV	400	16.03.16	

विद्युत विभव रूपरेखा माह - मार्च 2016

VOLTAGE PROFILE - MARCH 2016

क्र.स. Sl. No.	क्षेत्र REGION	उपकेंद्र SUBSTATION	VOLTAGE < V(lower)* (V=380,728 kV)	V(lower) < VOLTAGE < V(upper)*	VOLTAGE > V(upper)* (V=420,800 kV)	Voltage Deviation Index (%age of time voltage is outside range)	उच्चतम (कि.वो.) Maximum(kV)	निम्नतम(कि.वो.) Minimum(kV)	औसत (कि.वो.) Average(kV)
1	पूर्वी क्षेत्र ER	अंगुल ANGUL	0%	100%	0%	0%	778	736	764
2		गया GAYA	0%	100%	0%	0%	782	728	753
3		झारसुगुडा JHARSUGUDA	0%	100%	0%	0%	799	766	781
4		रांची RANCHI	0%	100%	0%	0%	797	767	782
5		सासाराम SASARAM	1%	99%	0%	1%	773	723	750
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	795	743	771
2		अनपरा सी ANPARA-C	0%	100%	0%	0%	787	745	759
3		बलिया BALLIA	0%	100%	0%	0%	792	735	762
4		भिवानी BHIWANI	0%	95%	5%	5%	808	754	787
5		बरेली BAREILLY	0%	100%	0%	0%	760	745	760
6		फतेहपुर FATEHPUR	0%	100%	0%	0%	779	731	754
7		झाटिकरा JHATIKARA	0%	84%	16%	16%	816	765	787
8		लखनऊ LUCKNOW	0%	100%	0%	0%	760	746	772
9		मेरठ MEERUT	0%	78%	22%	22%	820	758	792
10		मोगा MOGA	0%	96%	4%	4%	811	752	785
11		फागी PHAGI	0%	100%	0%	0%	793	744	768
12		उन्नाव UNNAO	0%	100%	0%	0%	782	731	754
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	781	732	753
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	806	738	779
3		भोपाल (बीडीटीसीएन) BHOPAL (BDTCL)	0%	100%	0%	0%	789	743	766
4		बिलासपुर BILASPUR	0%	100%	0%	0%	776	749	761
5		बीना BINA	0%	100%	0%	0%	797	752	772
6		चांपा CHAMPA	0%	55%	45%	45%	820	787	801
7		धर्मजयगढ़ DHARAMJAIGARH	0%	100%	0%	0%	788	756	771
8		धुले (बीडीटीसीएन) DHULE (BDTCL)	0%	100%	0%	0%	802	736	777
9		ग्वालियर GWALIOR	0%	100%	0%	0%	798	747	773
10		इंदौर INDORE	0%	100%	0%	0%	784	736	762
11		जबलपुर JABALPUR	0%	100%	0%	0%	796	753	774
12		कोरडी KORADI	0%	100%	0%	0%	768	737	750
13		पुणे PUNE	0%	100%	0%	0%	800	736	776
14		रायगढ़ पुलिंग RAIGARH POOLING	0%	95%	5%	5%	813	776	792
15		रायपुर पुलिंग RAIPUR POOLING	0%	100%	0%	0%	804	765	784
16		सासन SASAN	0%	100%	0%	0%	781	757	766
17		सतना SATNA	0%	100%	0%	0%	792	752	769
18		सिवनी SEONI	0%	100%	0%	0%	792	750	772
19		सीपत SIPAT	0%	100%	0%	0%	774	750	760
20		सोलापुर SOLAPUR	0%	87%	13%	13%	817	743	788
21		तामनार TAMNAR	0%	96%	4%	4%	812	777	792
22		तिरोडा TIRORA	0%	100%	0%	0%	765	742	752
23		वडोदरा VADODARA	0%	100%	0%	0%	797	754	778
24		विंध्याचल पुलिंग VINDHYACHAL PS	0%	100%	0%	0%	793	760	769
25		वर्धा WARDHA	0%	99%	1%	1%	811	749	781
1	दक्षिणी क्षेत्र SR	कर्नूल KURNOOL	0%	91%	9%	9%	816	755	789
2		नेल्लूर पुलिंग NELLORE PS	0%	100%	0%	0%	804	761	783
3		रायचूर RAICHUR	0%	91%	9%	9%	817	753	789
4		तिरुवलम THIRUVALEM	0%	71%	29%	29%	816	768	795
1	पूर्वोत्तर क्षेत्र NER	अज़ारा AZARA (400 kV)	0%	100%	0%	0%	416	401	410
2		बालिपारा BALIPARA (400 kV)	0%	99%	1%	1%	427	382	407
3		बिस्वनाथ चरियालि BISWANATH CHARIALI (400 kV)	0%	99%	1%	1%	426	382	404
4		बोंगाईगाव BONGAIGAON (400 kV)	0%	100%	0%	0%	424	379	406
5		मीसा MISA (400 kV)	0%	96%	4%	4%	429	388	410
6		सिलचर SILCHAR (400 kV)	0%	96%	4%	4%	425	394	413

\*Percentage is calculated w.r.t. Time of one month.

## 20. List of Tripping of Elements monitored by NLDC for the month of March 2016

S. No.	Name of Transmission Element	Type of the element	Region Involved	Fault Type	Tripping Date and Time	Brief Reason/Relay Indication	Restoration Date and Time	Duration	Number of Cumulative tripping in the month
<b>HVDC - IR</b>									
1	Vindhyachal Pole-I	HVDC	WR/NR	TS	01-03-2016 00:00	DC over current protection operated	01-04-2016 00:00	744:00:00	1
2	Mundra-Mahendragarh-Pole-I	HVDC	WR/NR	SE	18-03-2016 18:47	chattering in convertor transformer	18-03-2016 21:42	2:55:00	0
3	Talcher-Kolar Pole-II	HVDC	ER/SR	TL	08-03-2016 05:44	Distance Protection Operated	08-03-2016 09:15	3:31:00	1
4	Talcher-Kolar Pole-I	HVDC	ER/SR	TS	08-03-2016 01:29	Valve Cooling problem	08-03-2016 02:12	0:43:00	1
5	Talcher-Kolar Pole-I	HVDC	ER/SR	TP	22-03-2016 07:35	FIRE FIGHTING SYSTEM VESDA OPERATED	22-03-2016 09:08	1:33:00	2
6	Gazuwaka Pole-II	HVDC	ER/SR	TS	10-03-2016 00:31	Pole blocked	10-03-2016 13:45	13:14:00	1
7	Gazuwaka Pole-I	HVDC	ER/SR	TS	10-03-2016 00:31	Pole blocked	10-03-2016 13:38	13:07:00	1
8	Gazuwaka Pole-I	HVDC	ER/SR	TS	31-03-2016 15:09	Assymmetric fault	01-04-2016 00:00	8:51:00	2
9	Biswanath Chariali-Agra Pole-I	HVDC	NER/NR	TS	01-03-2016 00:00	Convertor transformer protection operated	13-03-2016 23:02	311:02:00	1
10	Biswanath Chariali-Agra Pole-I	HVDC	NER/NR	TS	15-03-2016 16:47	DC fault at BNC end	15-03-2016 17:30	0:43:00	2
11	Biswanath Chariali-Agra Pole-I	HVDC	NER/NR	TP	19-03-2016 10:05	Faulty alarm at BNC	19-03-2016 11:01	0:56:00	3
12	Biswanath Chariali-Agra Pole-I	HVDC	NER/NR	TL	21-03-2016 11:31	DC line fault	21-03-2016 15:07	3:36:00	4
13	Biswanath Chariali-Agra Pole-I	HVDC	NER/NR	TL	22-03-2016 15:32	DC line fault	22-03-2016 16:16	0:44:00	5
<b>HVDC - Internal</b>									
14	Rihand-Dadri Pole-II	HVDC	NR	TL	18-03-2016 12:50	Tripped on DC line fault	18-03-2016 18:46	5:56:00	1
16	Rihand-Dadri Pole-II	HVDC	NR	SO	19-03-2016 10:00	To attend thyristor problem at Rihand	19-03-2016 15:08	5:08:00	1
17	Rihand-Dadri Pole-I	HVDC	NR	SO	16-03-2016 23:14	Valve Hall Capacitors work	17-03-2016 00:25	1:11:00	0
<b>765 kV - IR</b>									
18	765 kV Gaya-Fatehpur	Line	ER/NR	SC	05-03-2016 08:07	For LILO of this line at Varanasi Powergrid	10-03-2016 11:25	123:18:00	0
19	765 kV Gaya-Balia	Line	ER/NR	SO	17-03-2016 09:05	For AMP Works	17-03-2016 19:43	10:38:00	0

S. No.	Name of Transmission Element	Type of the element	Region Involved	Fault Type	Tripping Date and Time	Brief Reason/Relay Indication	Restoration Date and Time	Duration	Number of Cumulative tripping in the month
20	765 kV Jharsuguda-Dharmjaygarh-II	Line	ER/WR	SE	11-03-2016 06:57	fire in panel at s/s jarsuguda.	11-03-2016 22:28	15:31:00	0
21	765 kV Jharsuguda-Dharmjaygarh-II	Line	ER/WR	SC	30-03-2016 08:14	Line reactor bay modified from non switching to switchable	01-04-2016 00:00	39:46:00	0
22	765 kV Jharsuguda-Dharmjaygarh-I	Line	ER/WR	SE	11-03-2016 06:57	Fire in panel at s/s jarsuguda.	11-03-2016 21:00	14:03:00	0
23	765 kV Gwalior-Phagi-II	Line	WR/NR	SC	07-03-2016 10:37	Replacement of porcelain disc insulators with polymer insulators string	07-03-2016 19:36	8:59:00	0
24	765 kV Gwalior-Phagi-II	Line	WR/NR	SC	08-03-2016 10:45	Replacement of porcelain disc insulators with polymer insulators string	08-03-2016 19:12	8:27:00	0
25	765 kV Gwalior-Phagi-II	Line	WR/NR	SC	10-03-2016 09:46	Replacement of porcelain disc insulators with polymer insulators string	10-03-2016 19:19	9:33:00	0
26	765 kV Gwalior-Phagi-I	Line	WR/NR	SE	19-03-2016 11:17	To save life of the person sitting on the tower	19-03-2016 13:05	1:48:00	0
27	765 kV Gwalior-Phagi-I	Line	WR/NR	TL	25-03-2016 03:38	Distance Protection Operated	25-03-2016 05:04	1:26:00	1
28	765 kV Gwalior-Agra-II	Line	WR/NR	TL	29-03-2016 17:03	Distance Protection Operated	29-03-2016 17:48	0:45:00	1
<b>765 kV Internal</b>									
29	765kV Phagi-Bhiwani-I	Line	NR	TP	12-03-2016 17:58	DT received at Phaghi end	12-03-2016 18:31	0:33:00	1
30	765kV Moga-Bhiwani(PG)	Line	NR	TL	01-03-2016 21:53	Distance Protection Operated	01-03-2016 22:38	0:45:00	1
31	765kV Moga-Bhiwani(PG)	Line	NR	SO	01-03-2016 10:45	Replacement of Y-Ph LA due to very high THRC	01-03-2016 13:05	2:20:00	1
32	765kV Meerut-Bhiwani(PG)	Line	NR	MO	05-03-2016 20:05	Opened manually due to High Voltage	06-03-2016 12:31	16:26:00	0
33	765kV Meerut-Bhiwani(PG)	Line	NR	MO	12-03-2016 00:13	Opened manually due to High Voltage	12-03-2016 12:01	11:48:00	0
34	765kV Meerut-Bhiwani(PG)	Line	NR	MO	12-03-2016 21:54	Opened manually due to High Voltage	13-03-2016 07:45	9:51:00	0
35	765kV Meerut-Bhiwani(PG)	Line	NR	MO	14-03-2016 02:47	Opened manually due to High Voltage	15-03-2016 09:06	30:19:00	0
37	765kV Meerut-Bhiwani(PG)	Line	NR	MO	17-03-2016 02:16	Opened manually due to High Voltage	18-03-2016 10:56	32:40:00	0
38	765kV Meerut-Bhiwani(PG)	Line	NR	MO	17-03-2016 02:18	Opened manually due to High Voltage	17-03-2016 06:14	3:56:00	0
39	765kV Meerut-Bhiwani(PG)	Line	NR	MO	19-03-2016 02:37	Opened manually due to High Voltage	19-03-2016 09:14	6:37:00	0
40	765kV Meerut-Bhiwani(PG)	Line	NR	MO	22-03-2016 13:17	Opened manually due to High Voltage	23-03-2016 09:22	20:05:00	0
41	765kV Meerut-Bhiwani(PG)	Line	NR	MO	24-03-2016 01:00	Opened manually due to High Voltage	28-03-2016 09:42	104:42:00	0

S. No.	Name of Transmission Element	Type of the element	Region Involved	Fault Type	Tripping Date and Time	Brief Reason/Relay Indication	Restoration Date and Time	Duration	Number of Cumulative tripping in the month
42	765kV Meerut-Bhiwani(PG)	Line	NR	MO	28-03-2016 01:43	Opened manually due to High Voltage	28-03-2016 09:42	7:59:00	0
43	765kV Meerut-Bhiwani(PG)	Line	NR	MO	30-03-2016 21:31	Opened manually due to High Voltage	31-03-2016 05:42	8:11:00	0
44	765kV Lucknow(PG)-Bareilly(PG)-I	Line	NR	TL	07-03-2016 11:42	jumper of aforesaid line at loc no.294 found open & hanging in air	07-03-2016 15:30	3:48:00	1
45	765kV Jhatikara-Bhiwani(PG)	Line	NR	TL	09-03-2016 17:10	Distance Protection Operated	09-03-2016 17:50	0:40:00	1
46	765kV Fatehpur-Agra-II	Line	NR	SO	04-03-2016 15:00	for taking line reactor out of service	04-03-2016 17:49	2:49:00	0
47	765kV Fatehpur-Agra-II	Line	NR	MO	05-03-2016 20:22	Opened manually due to High Voltage	06-03-2016 09:06	12:44:00	0
48	765kV Fatehpur-Agra-II	Line	NR	SE	10-03-2016 11:35	Hand tripped from Fatehpur end due to high oil temp. alarm in R-phase line reactor	10-03-2016 14:35	3:00:00	0
49	765kV Fatehpur-Agra-II	Line	NR	TV	12-03-2016 00:34	Tripped on Over Voltage	12-03-2016 14:28	13:54:00	1
50	765kV Fatehpur-Agra-II	Line	NR	MO	13-03-2016 00:20	Opened manually due to High Voltage	14-03-2016 09:37	33:17:00	1
51	765kV Fatehpur-Agra-II	Line	NR	MO	24-03-2016 17:11	Opened manually due to High Voltage	28-03-2016 10:56	89:45:00	1
52	765kV Fatehpur-Agra-II	Line	NR	MO	28-03-2016 22:06	Opened manually due to High Voltage	29-03-2016 14:37	16:31:00	1
53	765kV Fatehpur-Agra-II	Line	NR	MO	30-03-2016 21:31	Opened manually due to High Voltage	31-03-2016 05:40	8:09:00	1
54	765kV Balia-Varanasi	Line	NR	TP	11-03-2016 16:00	Tripped during testing work at Varanasi S/S	11-03-2016 17:23	1:23:00	1
55	765kV Balia-Varanasi	Line	NR	TS	15-03-2016 12:42	Replacement of Reactor LA ( damaged in storm and rain) at Varanasi end	16-03-2016 16:39	27:57:00	2
56	765kV Agra-Jhatikara	Line	NR	SE	12-03-2016 13:22	To attend conductor jumper	12-03-2016 18:19	4:57:00	0
57	765 kV Moga-Meerut	Line	NR	MO	03-03-2016 21:54	Opened manually due to High Voltage	04-03-2016 08:20	10:26:00	0
58	765 kV Moga-Meerut	Line	NR	MO	04-03-2016 21:31	Opened manually due to High Voltage	05-03-2016 07:24	9:53:00	0
59	765 kV Moga-Meerut	Line	NR	MO	05-03-2016 19:52	Opened manually due to High Voltage	06-03-2016 09:31	13:39:00	0
60	765 kV Moga-Meerut	Line	NR	MO	06-03-2016 21:52	Opened manually due to High Voltage	07-03-2016 10:00	12:08:00	0
61	765 kV Moga-Meerut	Line	NR	MO	08-03-2016 00:05	Opened manually due to High Voltage	08-03-2016 08:24	8:19:00	0
62	765 kV Moga-Meerut	Line	NR	SO	08-03-2016 08:24	For attending hot spots	08-03-2016 16:04	7:40:00	0
63	765 kV Moga-Meerut	Line	NR	MO	08-03-2016 20:50	Opened manually due to High Voltage	09-03-2016 07:32	10:42:00	0

S. No.	Name of Transmission Element	Type of the element	Region Involved	Fault Type	Tripping Date and Time	Brief Reason/Relay Indication	Restoration Date and Time	Duration	Number of Cumulative tripping in the month
64	765 kV Moga-Meerut	Line	NR	MO	10-03-2016 01:23	Opened manually due to High Voltage	10-03-2016 11:03	9:40:00	0
65	765 kV Moga-Meerut	Line	NR	MO	10-03-2016 21:55	Opened manually due to High Voltage	11-03-2016 08:59	11:04:00	0
66	765 kV Moga-Meerut	Line	NR	MO	11-03-2016 20:38	Opened manually due to High Voltage	12-03-2016 12:05	15:27:00	0
67	765 kV Moga-Meerut	Line	NR	MO	12-03-2016 18:29	Opened manually due to High Voltage	14-03-2016 09:30	39:01:00	0
68	765 kV Moga-Meerut	Line	NR	MO	14-03-2016 22:12	Opened manually due to High Voltage	15-03-2016 09:05	10:53:00	0
69	765 kV Moga-Meerut	Line	NR	MO	17-03-2016 21:54	Opened manually due to High Voltage	18-03-2016 10:54	13:00:00	0
70	765 kV Moga-Meerut	Line	NR	MO	15-03-2016 21:39	Opened manually due to High Voltage	16-03-2016 09:20	11:41:00	0
71	765 kV Moga-Meerut	Line	NR	MO	16-03-2016 21:08	Opened manually due to High Voltage	17-03-2016 09:47	12:39:00	0
72	765 kV Moga-Meerut	Line	NR	MO	18-03-2016 21:51	Opened manually due to High Voltage	20-03-2016 07:43	33:52:00	0
73	765 kV Moga-Meerut	Line	NR	MO	20-03-2016 16:33	Opened manually due to High Voltage	22-03-2016 10:16	41:43:00	0
74	765 kV Moga-Meerut	Line	NR	MO	23-03-2016 00:55	Opened manually due to High Voltage	23-03-2016 09:20	8:25:00	0
75	765 kV Moga-Meerut	Line	NR	MO	23-03-2016 16:19	Opened manually due to High Voltage	25-03-2016 11:47	43:28:00	0
76	765 kV Moga-Meerut	Line	NR	MO	27-03-2016 01:09	Opened manually due to High Voltage	28-03-2016 07:23	30:14:00	0
77	765 kV Moga-Meerut	Line	NR	MO	28-03-2016 21:14	Opened manually due to High Voltage	30-03-2016 10:59	37:45:00	0
78	765 kV Moga-Meerut	Line	NR	MO	31-03-2016 21:52	Opened manually due to High Voltage	01-04-2016 00:00	2:08:00	0
79	765kV Angul-Jharsuguda-II	Line	ER	SE	11-03-2016 06:57	Fire in panel at s/s jarsuguda.	11-03-2016 21:39	14:42:00	0
80	765kV Angul-Jharsuguda-I	Line	ER	TL	01-03-2016 00:00	Distance Protection Operated	06-03-2016 18:28	138:28:00	1
81	765kV Wardha-Aurangabad-IV	Line	WR	MO	01-03-2016 00:00	Opened manually due to High Voltage	06-03-2016 06:57	126:57:00	0
82	765kV Wardha-Aurangabad-IV	Line	WR	MO	22-03-2016 17:25	Opened manually due to High Voltage	23-03-2016 20:03	26:38:00	0
83	765kV Wardha-Aurangabad-IV	Line	WR	MO	30-03-2016 21:45	Opened manually due to High Voltage	01-04-2016 00:00	26:15:00	0
84	765kV Wardha-Aurangabad-III	Line	WR	MO	06-03-2016 17:39	Opened manually due to High Voltage	08-03-2016 06:05	36:26:00	0
85	765kV Wardha-Aurangabad-III	Line	WR	MO	19-03-2016 08:02	Opened manually due to High Voltage	21-03-2016 09:37	49:35:00	0

S. No.	Name of Transmission Element	Type of the element	Region Involved	Fault Type	Tripping Date and Time	Brief Reason/Relay Indication	Restoration Date and Time	Duration	Number of Cumulative tripping in the month
86	765kV Wardha-Aurangabad-II	Line	WR	TV	21-03-2016 18:02	Tripped on Over Voltage	22-03-2016 12:33	18:31:00	1
87	765kV Wardha-Aurangabad-II	Line	WR	TV	24-03-2016 17:57	Tripped on Over Voltage	26-03-2016 11:00	41:03:00	2
88	765kV Wardha-Aurangabad-II	Line	WR	TV	27-03-2016 18:01	Tripped on Over Voltage	28-03-2016 07:34	13:33:00	3
89	765kV Wardha-Aurangabad-I	Line	WR	MO	01-03-2016 22:51	Opened manually due to High Voltage	02-03-2016 05:52	7:01:00	0
90	765kV Wardha-Aurangabad-I	Line	WR	MO	03-03-2016 02:12	Opened manually due to High Voltage	03-03-2016 05:54	3:42:00	0
91	765kV Wardha-Aurangabad-I	Line	WR	TV	04-03-2016 18:01	Tripped on Over Voltage	04-03-2016 18:43	0:42:00	1
92	765kV Wardha-Aurangabad-I	Line	WR	MO	06-03-2016 02:04	Opened manually due to High Voltage	07-03-2016 06:13	28:09:00	1
93	765kV Wardha-Aurangabad-I	Line	WR	MO	07-03-2016 17:30	Opened manually due to High Voltage	14-03-2016 11:51	162:21:00	1
94	765kV Wardha-Aurangabad-I	Line	WR	MO	14-03-2016 16:23	Opened manually due to High Voltage	19-03-2016 07:45	111:22:00	1
95	765kV Wardha-Aurangabad-I	Line	WR	TV	20-03-2016 18:02	Tripped on Over Voltage	20-03-2016 22:42	4:40:00	2
96	765kV Wardha-Aurangabad-I	Line	WR	MO	21-03-2016 17:16	Opened manually due to High Voltage	21-03-2016 22:55	5:39:00	2
97	765kV Wardha-Aurangabad-I	Line	WR	TV	23-03-2016 18:03	Tripped on Over Voltage	25-03-2016 07:24	37:21:00	3
98	765kV Wardha-Aurangabad-I	Line	WR	MO	26-03-2016 17:08	Opened manually due to High Voltage	30-03-2016 09:34	88:26:00	3
99	765kV Vindhyachal-Satna-I	Line	WR	TL	14-03-2016 01:36	Distance Protection Operated	14-03-2016 02:41	1:05:00	1
100	765kV Tirora-Koradi-II	Line	WR	TL	24-03-2016 13:05	Distance Protection Operated	24-03-2016 16:00	2:55:00	1
101	765kV Sipat-Bilaspur-II	Line	WR	SE	25-03-2016 12:03	Oil leakage in B phase CT at Sipat end	25-03-2016 23:43	11:40:00	0
102	765kV Seoni-Wardha-II	Line	WR	TV	24-03-2016 17:01	Tripped on Over Voltage	25-03-2016 08:06	15:05:00	1
103	765kV Seoni-Wardha-I	Line	WR	SO	03-03-2016 09:38	For removing OPGW pilot rope which was burnt due to rain/wind	03-03-2016 17:39	8:01:00	0
104	765kV Seoni-Wardha-I	Line	WR	SO	17-03-2016 09:39	Insulator replacement work in NH & Railway crossing	17-03-2016 19:24	9:45:00	0
105	765kV Seoni-Wardha-I	Line	WR	SO	18-03-2016 09:08	Insulator replacement work in NH & Railway crossing	18-03-2016 20:45	11:37:00	0
106	765kV Satna-Gwalior-II	Line	WR	SO	09-03-2016 10:12	Isolator alignment	09-03-2016 21:41	11:29:00	0
107	765kV Satna-Gwalior-I	Line	WR	TL	13-03-2016 18:17	Distance Protection Operated	13-03-2016 19:04	0:47:00	1



S. No.	Name of Transmission Element	Type of the element	Region Involved	Fault Type	Tripping Date and Time	Brief Reason/Relay Indication	Restoration Date and Time	Duration	Number of Cumulative tripping in the month
108	765kV Satna-Bina-II	Line	WR	TP	10-03-2016 23:27	OTI relay Mal-operation at Bina end	11-03-2016 00:20	0:53:00	1
109	765kV Sasan - Vindhychal PS	Line	WR	SE	08-03-2016 16:48	Rectification of Jumper Connector	08-03-2016 18:56	2:08:00	0
110	765kV Raigarh-PS(Kotra)-Raipur-PS(Durg)-I	Line	WR	MO	01-03-2016 00:00	Opened manually due to High Voltage	12-03-2016 18:56	282:56:00	0
111	765kV Pune-Sholapur	Line	WR	TV	10-03-2016 18:03	Tripped on Over Voltage	10-03-2016 18:44	0:41:00	1
112	765kV Pune-Sholapur	Line	WR	SC	17-03-2016 08:35	For attending the balance Earth wire stringing work	17-03-2016 20:38	12:03:00	1
113	765kV Pune-Sholapur	Line	WR	SC	18-03-2016 08:30	For attending the balance Earth wire stringing work	18-03-2016 20:16	11:46:00	1
114	765kV Jabalpur-Dharamjaigarh-II	Line	WR	TV	06-03-2016 12:42	Tripped on Over Voltage	06-03-2016 16:51	4:09:00	1
115	765kV Jabalpur-Dharamjaigarh-I	Line	WR	SO	01-03-2016 00:00	To attend fixing of theft tower members	02-03-2016 09:27	33:27:00	0
116	765kV Jabalpur-Dharamjaigarh-I	Line	WR	TL	15-03-2016 16:57	Distance Protection Operated	16-03-2016 06:34	13:37:00	1
117	765kV Dhule-Vadodara	Line	WR	MO	01-03-2016 22:04	Opened manually due to High Voltage	02-03-2016 06:51	8:47:00	0
118	765kV Dhule-Vadodara	Line	WR	MO	05-03-2016 17:22	Opened manually due to High Voltage	06-03-2016 06:48	13:26:00	0
119	765kV Dhule-Vadodara	Line	WR	MO	08-03-2016 22:06	Opened manually due to High Voltage	09-03-2016 06:56	8:50:00	0
120	765kV Dhule-Vadodara	Line	WR	MO	09-03-2016 22:06	Opened manually due to High Voltage	10-03-2016 07:36	9:30:00	0
121	765kV Dhule-Vadodara	Line	WR	MO	11-03-2016 02:52	Opened manually due to High Voltage	11-03-2016 07:01	4:09:00	0
122	765kV Dhule-Vadodara	Line	WR	MO	24-03-2016 07:38	Opened manually due to High Voltage	25-03-2016 15:26	31:48:00	0
123	765kV Bina-Jabalpur-II	Line	WR	TL	13-03-2016 17:47	Distance Protection Operated	13-03-2016 19:35	1:48:00	1
124	765kV Bina-Indore	Line	WR	SO	01-03-2016 12:41	For intergration of spare line reactor with Bina line reactor	01-03-2016 19:03	6:22:00	0
125	765kV Bina-Gwalior-II	Line	WR	MO	05-03-2016 20:44	Opened manually due to High Voltage	06-03-2016 09:57	13:13:00	0
127	765kV Aurangabad-Sholapur-II	Line	WR	TL	01-03-2016 22:06	Distance Protection Operated	01-03-2016 23:02	0:56:00	1
128	765kV Aurangabad-Sholapur-II	Line	WR	SO	12-03-2016 10:48	Maintenance works at Aurangabad & Sholapur	12-03-2016 19:44	8:56:00	1
129	765kV Aurangabad-Sholapur-I	Line	WR	TL	01-03-2016 00:00	Distance Protection Operated	01-03-2016 18:45	18:45:00	1
130	765kV Aurangabad-Sholapur-I	Line	WR	TL	01-03-2016 22:05	Distance Protection Operated	01-03-2016 22:38	0:33:00	2

S. No.	Name of Transmission Element	Type of the element	Region Involved	Fault Type	Tripping Date and Time	Brief Reason/Relay Indication	Restoration Date and Time	Duration	Number of Cumulative tripping in the month
131	765kV Aurangabad-Sholapur-I	Line	WR	SO	13-03-2016 09:51	Maintenance works at Aurangabad & Sholapur	13-03-2016 18:59	9:08:00	2
132	765kV Aurangabad-Dhule(BDTCL)	Line	WR	SC	08-03-2016 08:34	Modification of line LA/CVT jumpers at Aurangabad	08-03-2016 20:11	11:37:00	0
133	765kV Akola-Koradi-II	Line	WR	SO	11-03-2016 07:53	AMP works	11-03-2016 16:58	9:05:00	0
134	765 kV Kotra-Champa-I	Line	WR	MO	12-03-2016 18:18	Opened manually due to High Voltage	22-03-2016 14:14	235:56:00	0
135	765 kV Durg-Champa-I	Line	WR	MO	12-03-2016 18:20	Opened manually due to High Voltage	24-03-2016 14:06	283:46:00	0
136	765kV Raichur-Kurnool-II	Line	SR	TV	05-03-2016 18:04	Tripped on Over Voltage	05-03-2016 19:18	1:14:00	1
137	765kV Raichur-Kurnool-II	Line	SR	MO	06-03-2016 17:11	Opened manually due to High Voltage	06-03-2016 20:19	3:08:00	1
138	765kV Raichur-Kurnool-II	Line	SR	MO	07-03-2016 17:26	Opened manually due to High Voltage	07-03-2016 20:14	2:48:00	1
139	765kV Raichur-Kurnool-II	Line	SR	MO	08-03-2016 17:16	Opened manually due to High Voltage	08-03-2016 18:27	1:11:00	1
140	765kV Raichur-Kurnool-I	Line	SR	TV	05-03-2016 18:04	Tripped on Over Voltage	05-03-2016 18:58	0:54:00	1
141	765kV Raichur-Kurnool-I	Line	SR	MO	28-03-2016 18:01	Opened manually due to High Voltage	28-03-2016 18:30	0:29:00	1
142	765kV Kurnool-Thiruvalem-II	Line	SR	MO	04-03-2016 23:03	Opened manually due to High Voltage	05-03-2016 12:09	13:06:00	0
143	765kV Kurnool-Thiruvalem-II	Line	SR	TV	06-03-2016 18:04	Tripped on Over Voltage	07-03-2016 12:42	18:38:00	1
145	765kV Kurnool-Thiruvalem-II	Line	SR	MO	07-03-2016 16:32	Opened manually due to High Voltage	08-03-2016 10:56	18:24:00	1
146	765kV Kurnool-Thiruvalem-II	Line	SR	MO	08-03-2016 16:45	Opened manually due to High Voltage	21-03-2016 11:13	306:28:00	1
147	765kV Kurnool-Thiruvalem-II	Line	SR	MO	08-03-2016 16:45	Opened manually due to High Voltage	21-03-2016 11:13	306:28:00	1
148	765kV Kurnool-Thiruvalem-II	Line	SR	MO	28-03-2016 18:01	Opened manually due to High Voltage	29-03-2016 09:45	15:44:00	1
149	765kV Kurnool-Thiruvalem-II	Line	SR	MO	29-03-2016 17:08	Opened manually due to High Voltage	01-04-2016 00:00	54:52:00	1
150	765kV Kurnool-Thiruvalem-I	Line	SR	TV	01-03-2016 00:00	Tripped on Over Voltage	01-03-2016 10:49	10:49:00	1
151	765kV Kurnool-Thiruvalem-I	Line	SR	MO	01-03-2016 14:32	Opened manually due to High Voltage	02-03-2016 12:13	21:41:00	1
152	765kV Kurnool-Thiruvalem-I	Line	SR	MO	02-03-2016 17:20	Opened manually due to High Voltage	03-03-2016 10:18	16:58:00	1
153	765kV Kurnool-Thiruvalem-I	Line	SR	MO	03-03-2016 17:39	Opened manually due to High Voltage	04-03-2016 10:37	16:58:00	1

S. No.	Name of Transmission Element	Type of the element	Region Involved	Fault Type	Tripping Date and Time	Brief Reason/Relay Indication	Restoration Date and Time	Duration	Number of Cumulative tripping in the month
154	765kV Kurnool-Thiruvalem-I	Line	SR	TV	05-03-2016 18:04	Tripped on Over Voltage	05-03-2016 19:07	1:03:00	2
155	765kV Kurnool-Thiruvalem-I	Line	SR	MO	21-03-2016 17:25	Opened manually due to High Voltage	22-03-2016 15:15	21:50:00	2
156	765kV Kurnool-Thiruvalem-I	Line	SR	MO	22-03-2016 17:38	Opened manually due to High Voltage	28-03-2016 12:49	139:11:00	2
158	765kV Kurnool-Nellore(PS)-I	Line	SR	MO	01-03-2016 00:00	Opened manually due to High Voltage	01-04-2016 00:00	744:00:00	0
<b>400kV - IR</b>									
159	400 kV Sterlite-Raigarh	Line	ER/WR	MO	05-03-2016 10:56	To facilitate the shutdown of 400 kV Sterlite-Rourkela	05-03-2016 11:07	0:11:00	0
160	400 kV Sterlite-Raigarh	Line	ER/WR	TL	06-03-2016 15:35	tripped at sterilite end only	06-03-2016 18:20	2:45:00	1
161	400 kV Sterlite-Raigarh	Line	ER/WR	MO	07-03-2016 19:10	To syn. Unit at Sterlite	07-03-2016 19:39	0:29:00	1
162	400 kV Sterlite-Raigarh	Line	ER/WR	SC	21-03-2016 10:12	Railway Diversion	21-03-2016 19:28	9:16:00	1
163	400 kV Sterlite-Raigarh	Line	ER/WR	SE	30-03-2016 16:10	H/T from Sterlite end due to sparking in isolator	30-03-2016 18:21	2:11:00	1
164	400 kV Siliguri-Bongaigaon-III	Line	ER/NER	MO	01-03-2016 00:00	Opened manually due to High Voltage	18-03-2016 18:55	426:55:00	0
165	400 kV Siliguri-Bongaigaon-III	Line	ER/NER	MO	20-03-2016 00:03	Opened manually due to High Voltage	20-03-2016 18:12	18:09:00	0
166	400 kV Siliguri-Bongaigaon-III	Line	ER/NER	MO	21-03-2016 00:55	Opened manually due to High Voltage	21-03-2016 18:47	17:52:00	0
167	400 kV Siliguri-Bongaigaon-III	Line	ER/NER	MO	22-03-2016 14:04	To facilitate charging of HVDC BNC-Agra	22-03-2016 18:09	4:05:00	0
169	400 kV Siliguri-Bongaigaon-III	Line	ER/NER	MO	28-03-2016 01:40	Opened manually due to High Voltage	29-03-2016 17:44	40:04:00	0
171	400 kV Siliguri-Bongaigaon-II	Line	ER/NER	SE	19-03-2016 12:00	To replace damaged pilot string	19-03-2016 18:19	6:19:00	0
172	400 kV Siliguri-Bongaigaon-II	Line	ER/NER	MO	20-03-2016 23:12	Opened manually due to High Voltage	21-03-2016 00:48	1:36:00	0
173	400 kV Siliguri-Bongaigaon-I	Line	ER/NER	TP	02-03-2016 01:18	DT received at Binaguri	02-03-2016 17:16	15:58:00	1
174	400 kV Siliguri-Bongaigaon-I	Line	ER/NER	MO	03-03-2016 05:32	Opened manually due to High Voltage	03-03-2016 07:33	2:01:00	1
175	400 kV Siliguri-Bongaigaon-I	Line	ER/NER	TL	27-03-2016 20:51	Distance Protection Operated	27-03-2016 21:22	0:31:00	2
176	400 kV Siliguri-Bongaigaon-I	Line	ER/NER	SE	29-03-2016 12:29	Rectification of tension tower string	29-03-2016 18:32	6:03:00	2
177	400 kV Shujalpur-RAPP-II	Line	WR/NR	SO	04-03-2016 09:32	Hot spot and maintenance	05-03-2016 00:00	14:28:00	0

S. No.	Name of Transmission Element	Type of the element	Region Involved	Fault Type	Tripping Date and Time	Brief Reason/Relay Indication	Restoration Date and Time	Duration	Number of Cumulative tripping in the month
178	400 kV Shujalpur-RAPP-II	Line	WR/NR	SE	12-03-2016 13:39	To attend hot spot in Wave Trap Sujalpur	01-04-2016 00:00	466:21:00	0
179	400 kV Shujalpur-RAPP-I	Line	WR/NR	SO	04-03-2016 08:25	Hot spot and maintenance	05-03-2016 00:00	15:35:00	0
180	400 kV Sasaram-Allahabad	Line	ER/NR	TL	14-03-2016 09:06	Distance Protection Operated	14-03-2016 21:39	12:33:00	1
183	400 kV Sasaram-Allahabad	Line	ER/NR	SO	21-03-2016 12:26	To attend broken insulators	21-03-2016 16:08	3:42:00	1
184	400 kV Sasaram-Allahabad	Line	ER/NR	TL	22-03-2016 22:58	Distance Protection Operated	22-03-2016 23:23	0:25:00	2
185	400 kV Ranchi-Sipat-II	Line	ER/WR	SO	08-03-2016 08:39	AMP works	08-03-2016 17:17	8:38:00	0
186	400 kV Ranchi-Sipat-II	Line	ER/WR	SO	09-03-2016 08:40	AMP works	09-03-2016 19:16	10:36:00	0
187	400 kV Ranchi-Sipat-I	Line	ER/WR	TL	14-03-2016 14:10	Distance Protection Operated	14-03-2016 14:32	0:22:00	1
188	400 kV Ranchi-Sipat-I	Line	ER/WR	SO	17-03-2016 10:26	AMP works	17-03-2016 19:00	8:34:00	1
189	400 kV Muzaffarpur-Gorakhpur-I	Line	ER/NR	TL	29-03-2016 15:00	Distance Protection Operated	29-03-2016 15:31	0:31:00	1
190	400 kV Malbase - Binaguri - I	Line	Bhutan	SO	09-03-2016 11:28	To attend jumper problem	09-03-2016 18:43	7:15:00	0
191	400 kV Kolhapur-Kudgi-II	Line	WR/SR	TP	04-03-2016 07:18	DT RECEIVED AT KUDGI END	04-03-2016 07:32	0:14:00	1
193	400 kV Jharsuguda-Raigarh-I	Line	ER/WR	SC	21-03-2016 10:10	Railway Diversion	21-03-2016 20:26	10:16:00	0
194	400 kV Jeypore-Gazuwaka-II	Line	ER/SR	TL	10-03-2016 00:31	DT from Jeypore end	10-03-2016 14:16	13:45:00	1
195	400 kV Jeypore-Gazuwaka-I	Line	ER/SR	TL	10-03-2016 00:31	DT from Jeypore end	10-03-2016 13:28	12:57:00	1
196	400 kV IBEUL-Raigarh-I	Line	ER/WR	TL	14-03-2016 07:54	Distance Protection Operated	14-03-2016 10:00	2:06:00	1
197	400 kV Bhadrawati-Ramagundam-II	Line	WR/SR	TL	07-03-2016 19:39	Distance Protection Operated	07-03-2016 20:50	1:11:00	1
199	400 kV Bhadrawati-Ramagundam-II	Line	WR/SR	TL	08-03-2016 23:55	Distance Protection Operated	09-03-2016 01:01	1:06:00	2
200	400 kV Bhadrawati-Ramagundam-I	Line	WR/SR	TL	27-03-2016 22:06	Distance Protection Operated	27-03-2016 22:37	0:31:00	1
202	400 kV Barh-Gorakhpur-II	Line	ER/NR	SO	11-03-2016 09:46	For taking out the L/R (at Gorakhpur end) for NGR by-passing scheme works	11-03-2016 10:16	0:30:00	0
203	400 kV Barh-Gorakhpur-II	Line	ER/NR	SO	11-03-2016 11:25	For bringing in the L/R (at Gorakhpur end) after NGR by-passing scheme work	11-03-2016 11:37	0:12:00	0
204	400 kV Barh-Gorakhpur-I	Line	ER/NR	SO	10-03-2016 10:03	For taking out the L/R (at Gorakhpur end) for NGR by-passing scheme	10-03-2016 10:35	0:32:00	0

S. No.	Name of Transmission Element	Type of the element	Region Involved	Fault Type	Tripping Date and Time	Brief Reason/Relay Indication	Restoration Date and Time	Duration	Number of Cumulative tripping in the month
205	400 kV Barh-Gorakhpur-I	Line	ER/NR	SO	10-03-2016 12:25	For bringing in the L/R (at Gorakhpur end) after NGR by-passing scheme work	10-03-2016 13:35	1:10:00	0
206	400 kV Barh-Gorakhpur-I	Line	ER/NR	SE	29-03-2016 14:54	To attend conductor jumper.	29-03-2016 18:09	3:15:00	0
<b>220 kV - IR</b>									
207	220 kV Talangde-Chikkodi	Line	WR/SR	SE	04-03-2016 12:41	TO ATTEND BUS ISOLATOR HOTSPOT & ALIGNMENT.	05-03-2016 12:11	23:30:00	0
208	220 kV Pusauli-Sahupuri	Line	ER/NR	MO	31-03-2016 12:00	Facilitate S/D of ICT-1 at Sasaram	31-03-2016 13:18	1:18:00	0
209	220 kV Mudasang (Kolhapur)-Chikkodi	Line	WR/SR	SO	05-03-2016 10:21	AMP works	05-03-2016 12:11	1:50:00	0
210	220 kV Malanpur-Auraiya	Line	WR/NR	TL	04-03-2016 20:58	Distance Protection Operated	04-03-2016 21:40	0:42:00	1
211	220 kV Malanpur-Auraiya	Line	WR/NR	SO	16-03-2016 10:34	CT Replacement	16-03-2016 18:29	7:55:00	1
213	220 kV Chukha - Birpara - II	Line	Bhutan	SO	01-03-2016 00:00	For replacement of flashed-over/ broken insulator	05-03-2016 08:38	104:38:00	0
214	220 kV Chukha - Birpara - I	Line	Bhutan	SO	05-03-2016 09:01	To clear the tree which is about to fall	07-03-2016 08:30	47:29:00	0
215	220 kV Birpara-Salakati-II	Line	ER/NER	TL	31-03-2016 17:28	Distance Protection Operated	31-03-2016 17:59	0:31:00	1
216	220 kV Birpara-Salakati-I	Line	ER/NER	TL	31-03-2016 19:35	Distance Protection Operated	31-03-2016 19:57	0:22:00	1
<b>765 kV Reactors &amp; ICTs</b>									
217	B/R-I at Lucknow	Bus Reactor	NR	TS	06-03-2016 10:38	Blast on R-Phase bushing	01-04-2016 00:00	613:22:00	1
218	B/R-I at G'Noida	Bus Reactor	NR	SE	19-03-2016 06:44	Protection Problem	01-04-2016 00:00	305:16:00	0
219	B/R-II at Jharsuguda	Bus Reactor	ER	SE	11-03-2016 06:57	Fire in panel at s/s jarsuguda.	11-03-2016 21:55	14:58:00	0
220	B/R-II at Jharsuguda	Bus Reactor	ER	SO	27-03-2016 08:59	Construction defect rectification	27-03-2016 15:42	6:43:00	0
221	B/R-I at Ranchi New	Bus Reactor	ER	SO	09-03-2016 09:49	AMP works	09-03-2016 17:45	7:56:00	0
222	B/R-I at Raigarh	Bus Reactor	WR	SO	21-03-2016 09:12	AMP works	21-03-2016 15:59	6:47:00	0
223	B/R-I at Gwalior	Bus Reactor	WR	SO	12-03-2016 13:42	Spare reactor switching and isolator alignment	12-03-2016 21:34	7:52:00	0
224	B/R-I at Aurangabad	Bus Reactor	WR	SE	03-03-2016 11:36	Oil Leakage from R phase	03-03-2016 15:49	4:13:00	0
225	B/R-I at Raichur	Bus Reactor	SR	SO	10-03-2016 09:17	AMP works	10-03-2016 18:12	8:55:00	0

S. No.	Name of Transmission Element	Type of the element	Region Involved	Fault Type	Tripping Date and Time	Brief Reason/Relay Indication	Restoration Date and Time	Duration	Number of Cumulative tripping in the month
227	B/R-I at Nellore	Bus Reactor	SR	SO	08-03-2016 11:05	AMP works	08-03-2016 17:48	6:43:00	0
228	765/400 kV ICT-II at Unnao	ICT	NR	TP	13-03-2016 09:22	Tripped with tripping of 400kV Lucknow-Unnao- 1 & 2	13-03-2016 11:59	2:37:00	1
229	765/400 kV ICT-II at Unnao	ICT	NR	TS	16-03-2016 21:23	Transient Fault	16-03-2016 22:01	0:38:00	2
230	765/400 kV ICT-II at Moga	ICT	NR	SO	23-03-2016 10:09	For switching of spare unit.	23-03-2016 13:36	3:27:00	0
232	765/400 kV ICT-II at Lucknow	ICT	NR	SE	06-03-2016 11:39	Hand tripped due to fire in adjacent bay	06-03-2016 17:36	5:57:00	0
233	765/400 kV ICT-I at Unnao	ICT	NR	TP	13-03-2016 09:22	Tripped with tripping of 400kV Lucknow-Unnao- 1 & 2	13-03-2016 11:59	2:37:00	1
235	765/400 kV ICT-I at Anpara C	ICT	NR	SO	01-03-2016 00:00	AMP works	05-03-2016 08:15	104:15:00	0
236	765/400 kV ICT-II at Jharsuguda	ICT	ER	SO	03-03-2016 09:22	Construction defect rectification	03-03-2016 19:16	9:54:00	0
237	765/400 kV ICT-II at Jharsuguda	ICT	ER	SE	11-03-2016 06:57	Fire in panel at s/s jarsuguda.	11-03-2016 21:16	14:19:00	0
238	765/400 kV ICT-I at Jharsuguda	ICT	ER	SE	11-03-2016 06:57	Fire in panel at s/s jarsuguda.	11-03-2016 19:33	12:36:00	0
240	765/400 kV ICT-III at Seoni	ICT	WR	SO	12-03-2016 08:45	Variable frequency tan delta of HV bushings	12-03-2016 17:21	8:36:00	0
241	765/400 kV ICT-III at Seoni	ICT	WR	SE	25-03-2016 10:19	To attend open dropper conductor of 765 KV R phase isolator	25-03-2016 13:11	2:52:00	0
242	765/400 kV ICT-III at Raigarh-PS(Kotra)	ICT	WR	SO	02-03-2016 11:21	Commissioning of CSD in 400 kV side	02-03-2016 18:40	7:19:00	0
243	765/400 kV ICT-II at Vadodara	ICT	WR	SC	05-03-2016 10:06	Relay upgradation work at Vadodara	05-03-2016 16:51	6:45:00	0
247	765/400 kV ICT-II at Sholapur-PG	ICT	WR	SO	04-03-2016 09:02	AMP works	04-03-2016 20:02	11:00:00	0
248	765/400 kV ICT-II at Bhopal	ICT	WR	SE	09-03-2016 10:28	oil leakage in ICT Bank-2 R-Phase	09-03-2016 18:01	7:33:00	0
249	765/400 kV ICT-II at Aurangabad(PG)	ICT	WR	SO	09-03-2016 09:42	for changing of ph combination	09-03-2016 19:45	10:03:00	0
250	765/400 kV ICT-II at Aurangabad(PG)	ICT	WR	SO	15-03-2016 09:21	For changing of ph combination	15-03-2016 18:12	8:51:00	0
251	765/400 kV ICT-I at Seoni	ICT	WR	SE	11-03-2016 09:48	Variable frequency tan delta of HV bushings	11-03-2016 19:55	10:07:00	0
252	765/400 kV ICT-I at Pune	ICT	WR	SO	09-03-2016 10:33	CSD commissioning	09-03-2016 11:42	1:09:00	0
253	765/400 kV ICT-I at Aurangabad(PG)	ICT	WR	SO	21-03-2016 11:04	CSD commissioning	21-03-2016 19:03	7:59:00	0
254	765/400 kV ICT-II at Nellore	ICT	SR	SE	09-03-2016 12:22	Emergency SD	09-03-2016 17:42	5:20:00	0

S. No.	Name of Transmission Element	Type of the element	Region Involved	Fault Type	Tripping Date and Time	Brief Reason/Relay Indication	Restoration Date and Time	Duration	Number of Cumulative tripping in the month
255	765/400 kV ICT-I at Kurnool New	ICT	SR	SO	01-03-2016 12:09	AMP works	01-03-2016 17:29	5:20:00	0
256	765/400 kV ICT-I at Kurnool New	ICT	SR	SO	02-03-2016 11:11	CSD Commissioning	02-03-2016 16:30	5:19:00	0

TL TL= Tripping due to Line Fault

TS TS= Tripping due to S/S Fault

MO MO= Opened due to system constraints

TV TV= Tripped on Overvoltage

SC SC= Planned Shutdown for construction activities

SO SO= Planned Shutdown for O&M activities

SE SE= Emergency Shutdown

TP TP= Protection Maloperation

ME ME= Miscellaneous outage

**Total Number of 765 kV lines 94**

**Total Number of 400 kV lines 35**

**Total Number of 220 kV lines 15**

**Total Number of HVDC links 18**

**Total Number of 765 kV ICTs 112**

**Total Number of 765 kV B/R 60**

**Grand Total 334**



## **POWER SYSTEM OPERATION CORPORATION LIMITED**

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