

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: 23.06.2016

सेवा में,

वितरण सूची के अनुसार

विषय:- निष्पादन रिपोर्ट - मई 2016

महोदय,

आई०ई०जी०सी०-2010 के प्रावधान के अनुसार, मई 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
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Member Secretary, NRPC, 18/A, SJSS Marg, Katwaria Sarai, New Delhi-110016
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- 5 सदस्य सचिव, द. क्षे. वि. स., 29, रेस कोर्स क्रॉस रोड, बंगलूरु - 560009
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- 8 महाप्रबंधक, पू. क्षे. भा. प्रे. के., 14, गोल्फ क्लब रोड, कोलकाता - 700033
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General Manager, WRLDC, F-3, MIDC Area, Andheri (East), Mumbai-400093
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General Manager, NRLDC, 18/A, SJSS Marg, Katwaria Sarai, New Delhi-110016
- 11 कार्यपालक निदेशक, द. क्षे. भा. प्रे. के, 29, रेस कोर्स क्रॉस रोड, बंगलूरु - 560009
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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



मई 2016

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

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



माह मई 2016 के लिए प्रचालन निष्पादन रिपोर्ट
OPERATIONAL PERFORMANCE REPORT FOR THE
MONTH OF MAY 2016

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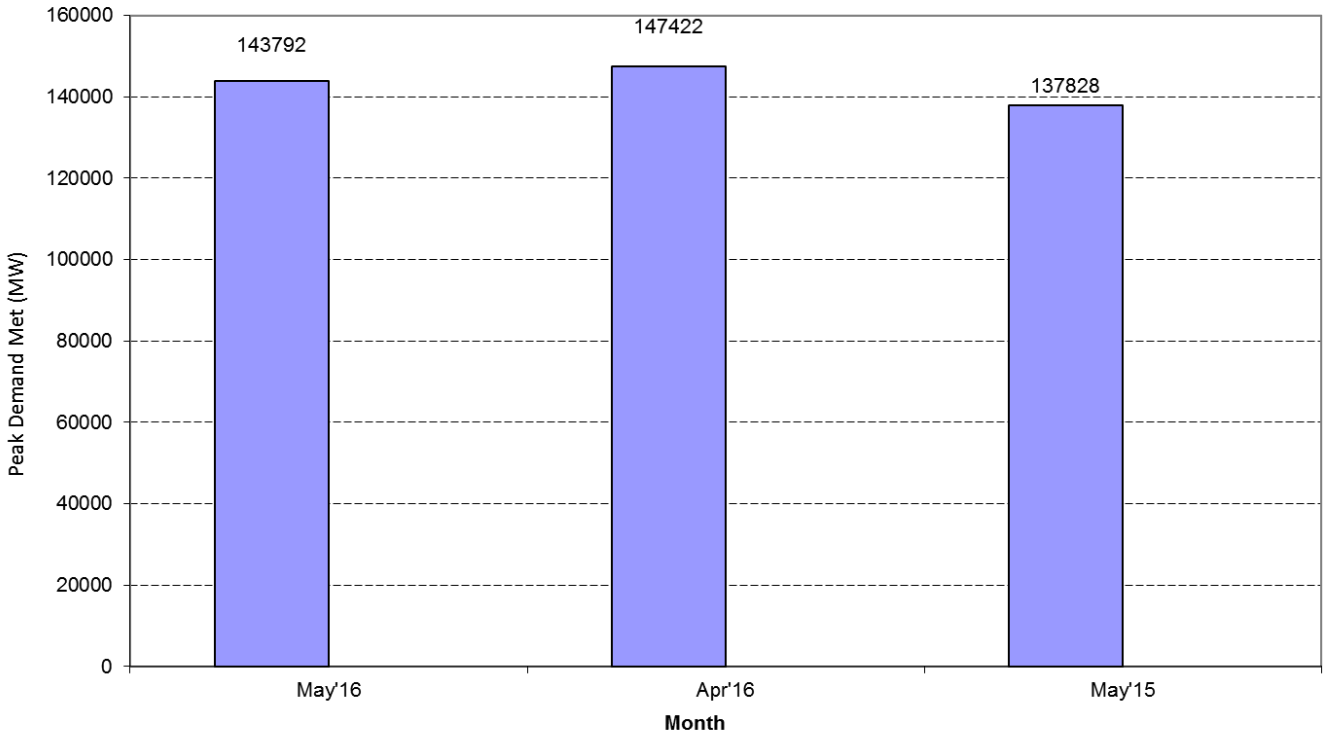
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1. SUMMARY OF REPORT FOR THE MONTH OF MAY 2016

Peak Demand Met

Decreased by 2.46% as compared to Apr 2016

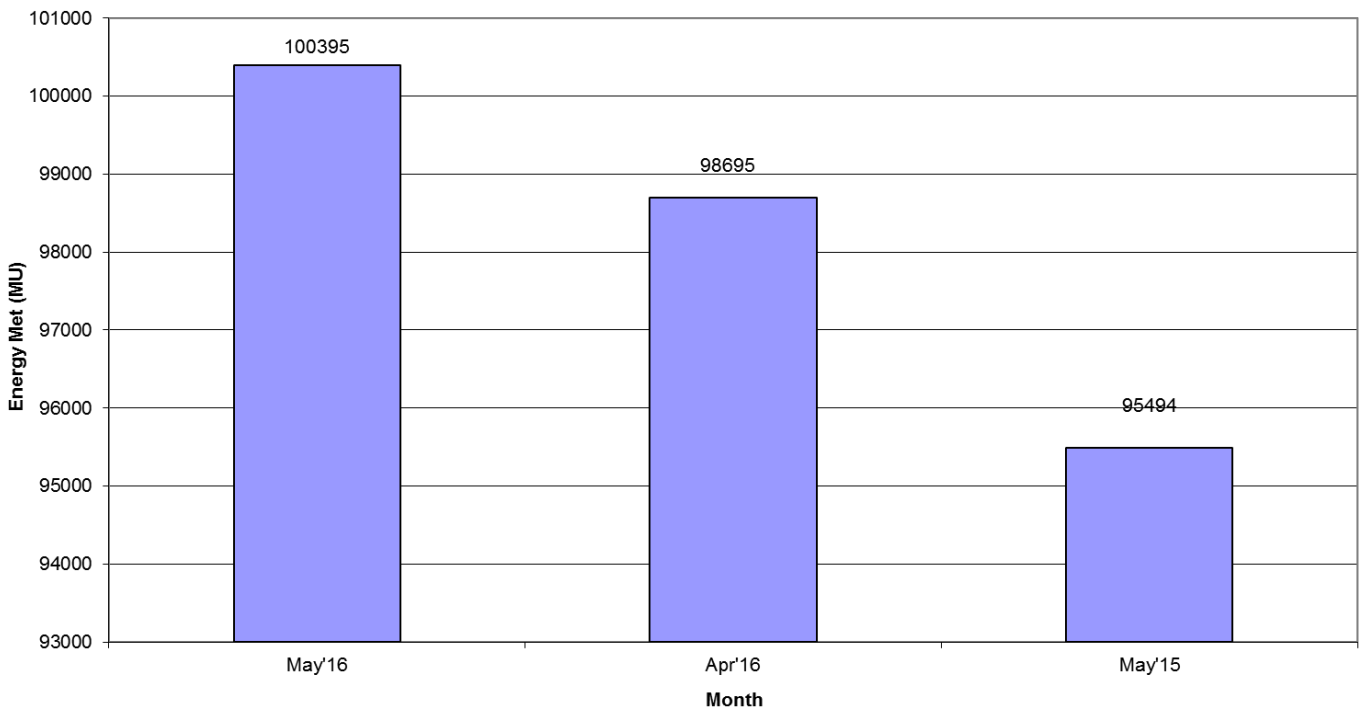
Increased by 4.33% as compared to May 2015



Energy Met

Increased by 1.72% as compared to Apr 2016

Increased by 5.13% as compared to May 2015

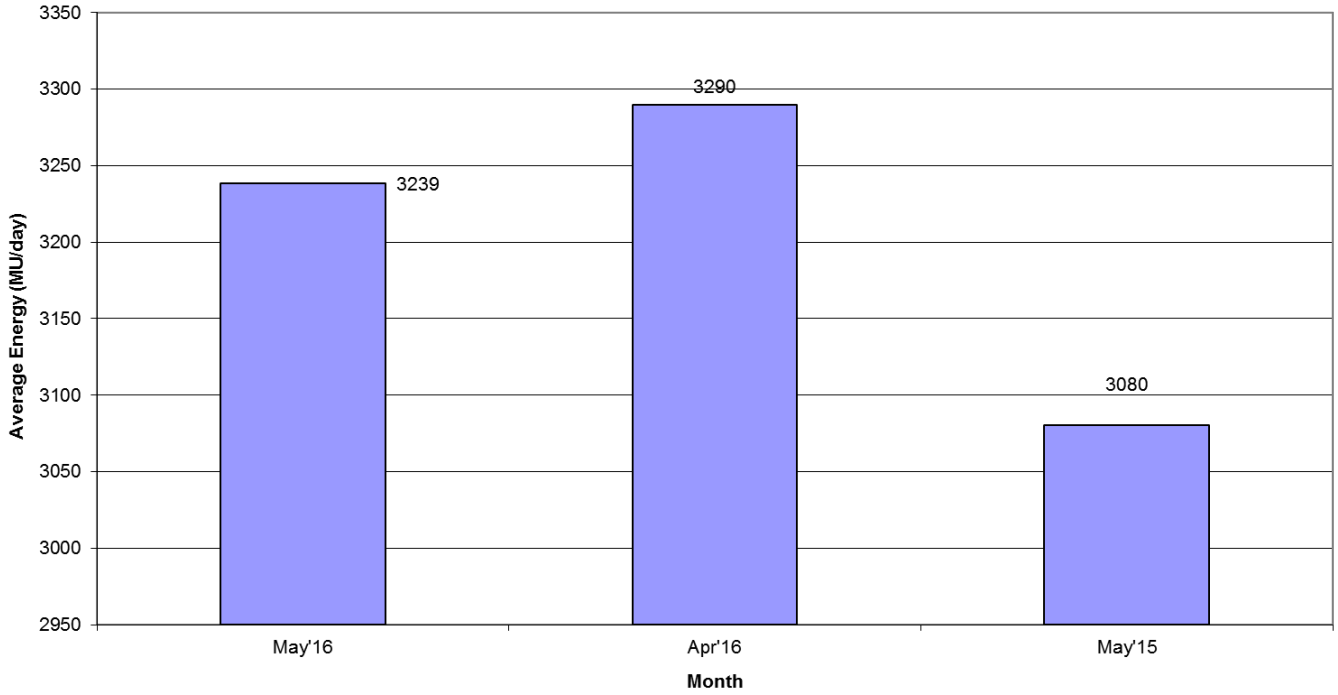


1. SUMMARY OF REPORT FOR THE MONTH OF MAY 2016

Average Energy (MU/day)

Decreased by 1.56% as compared to Apr 2016

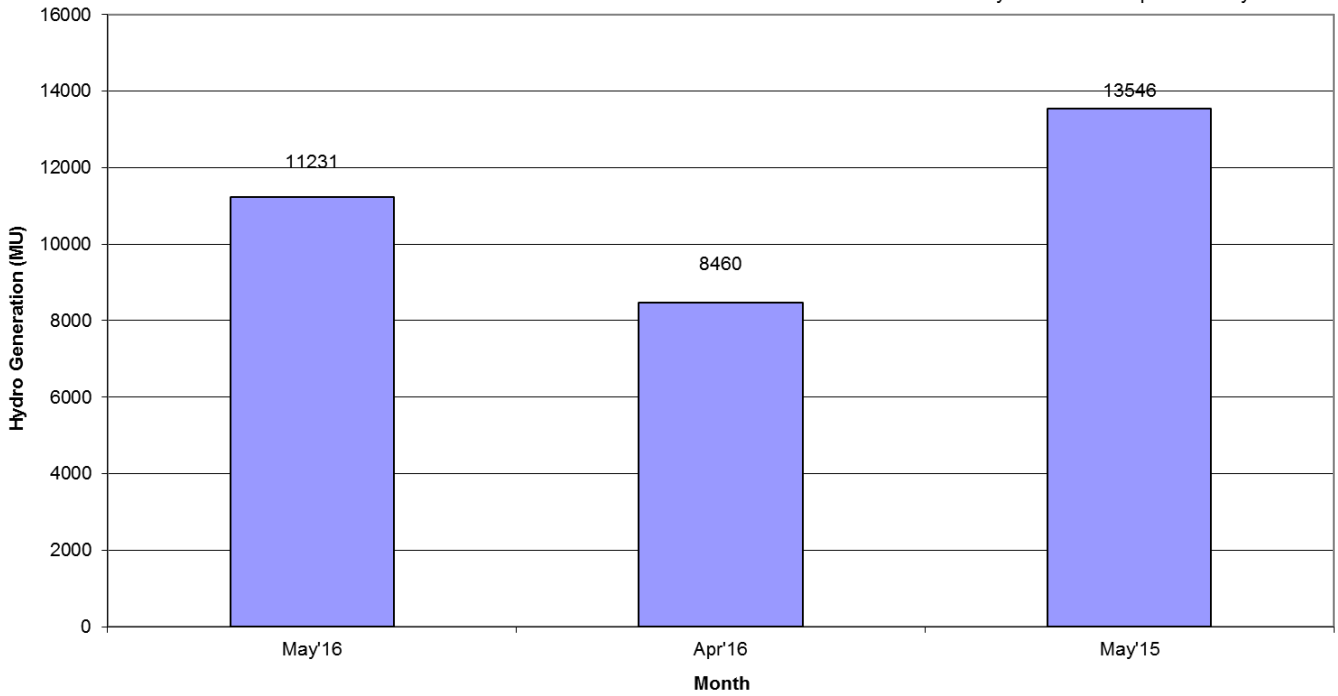
Increased by 5.13% as compared to May 2015



Hydro generation

Increased by 32.75% as compared to Apr 2016

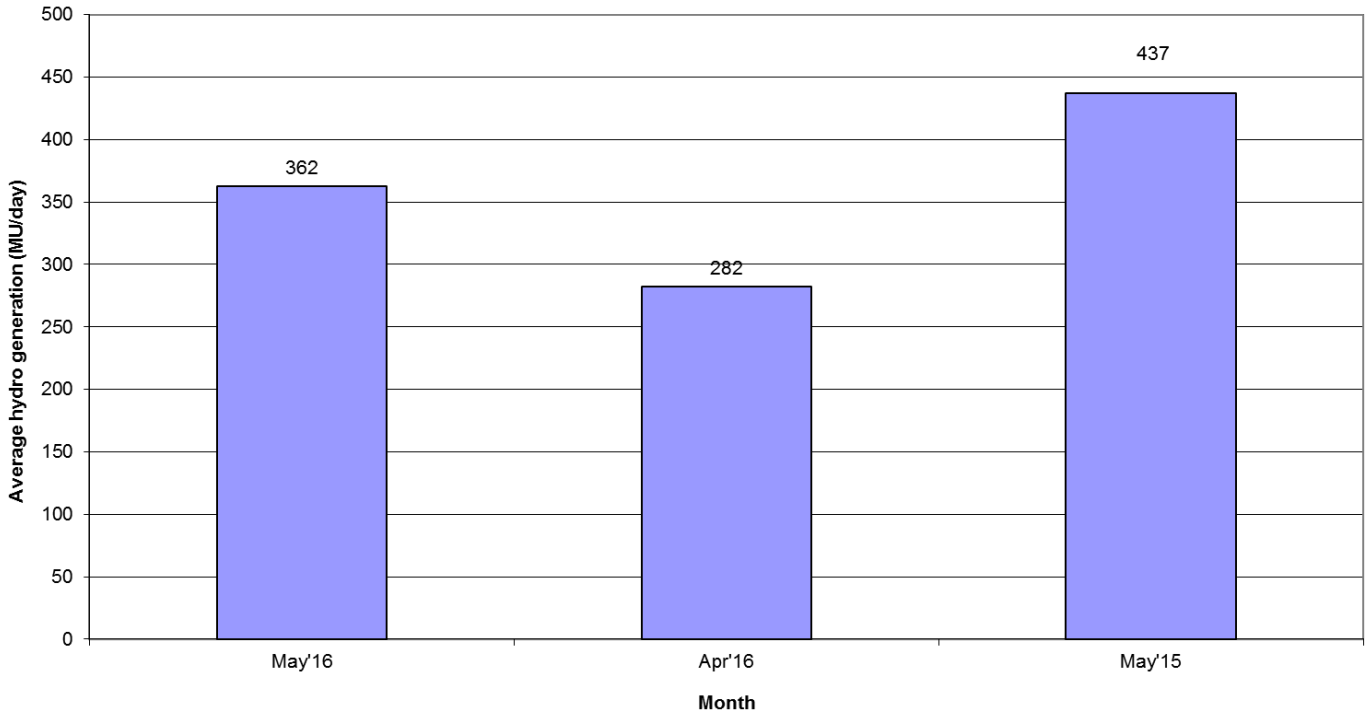
Decreased by 17.09% as compared to May 2015



1. SUMMARY OF REPORT FOR THE MONTH OF MAY 2016

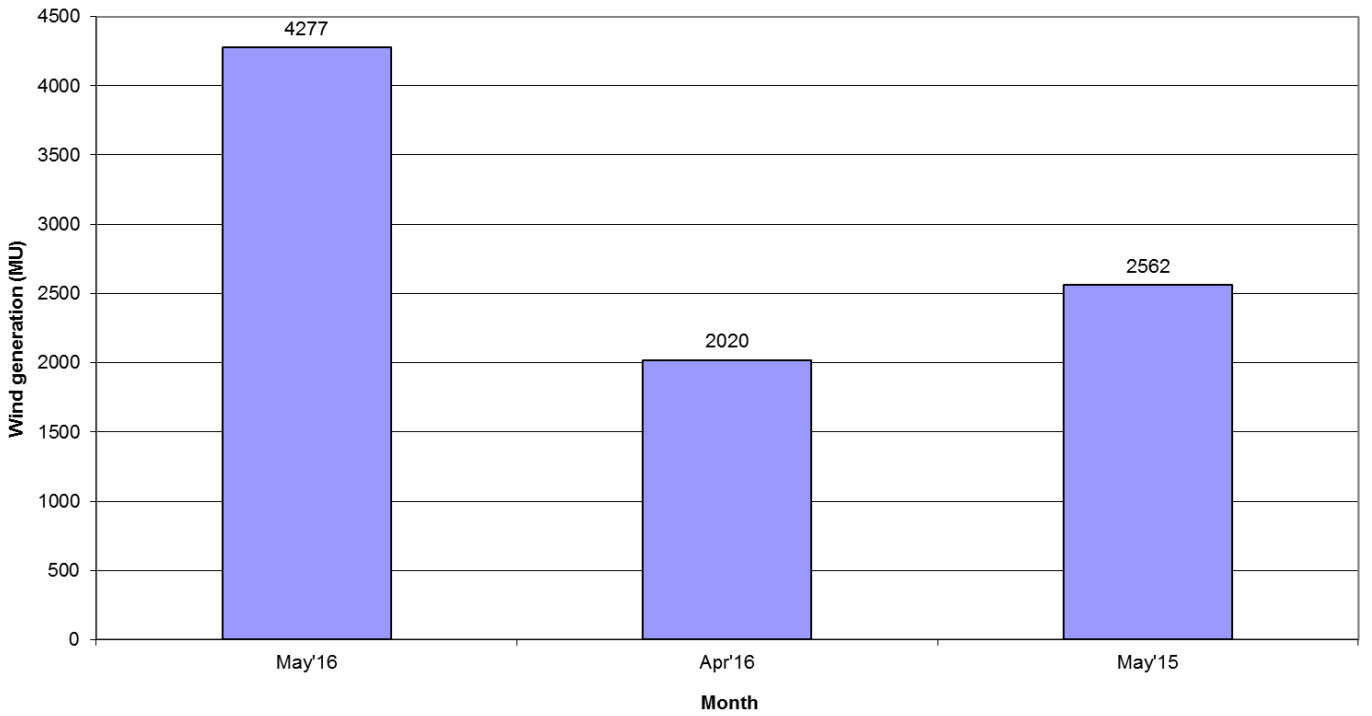
Average Hydro Generation

Increased by 28.47% as compared to Apr 2016
Decreased by 17.09% as compared to May 2015



Wind Generation

Increased by 111.78% as compared to Apr 2016
Increased by 66.96% as compared to May 2015

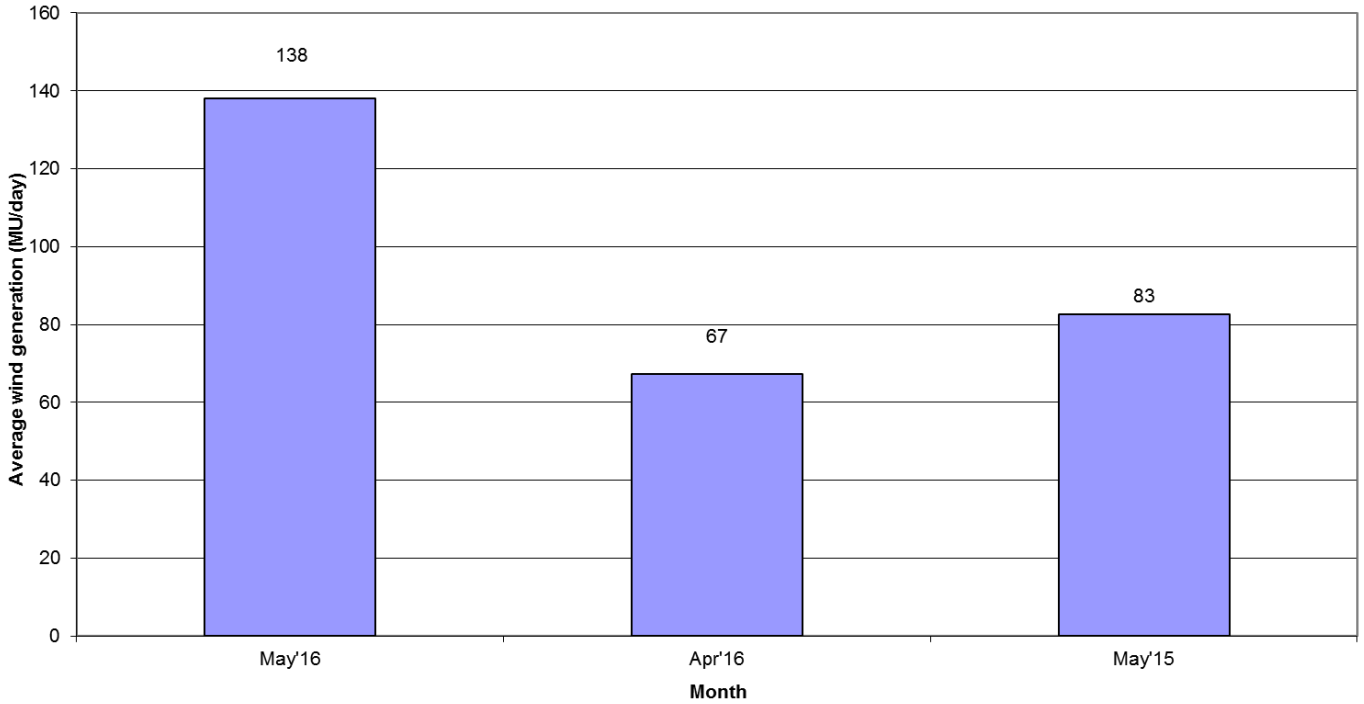


1. SUMMARY OF REPORT FOR THE MONTH OF MAY 2016

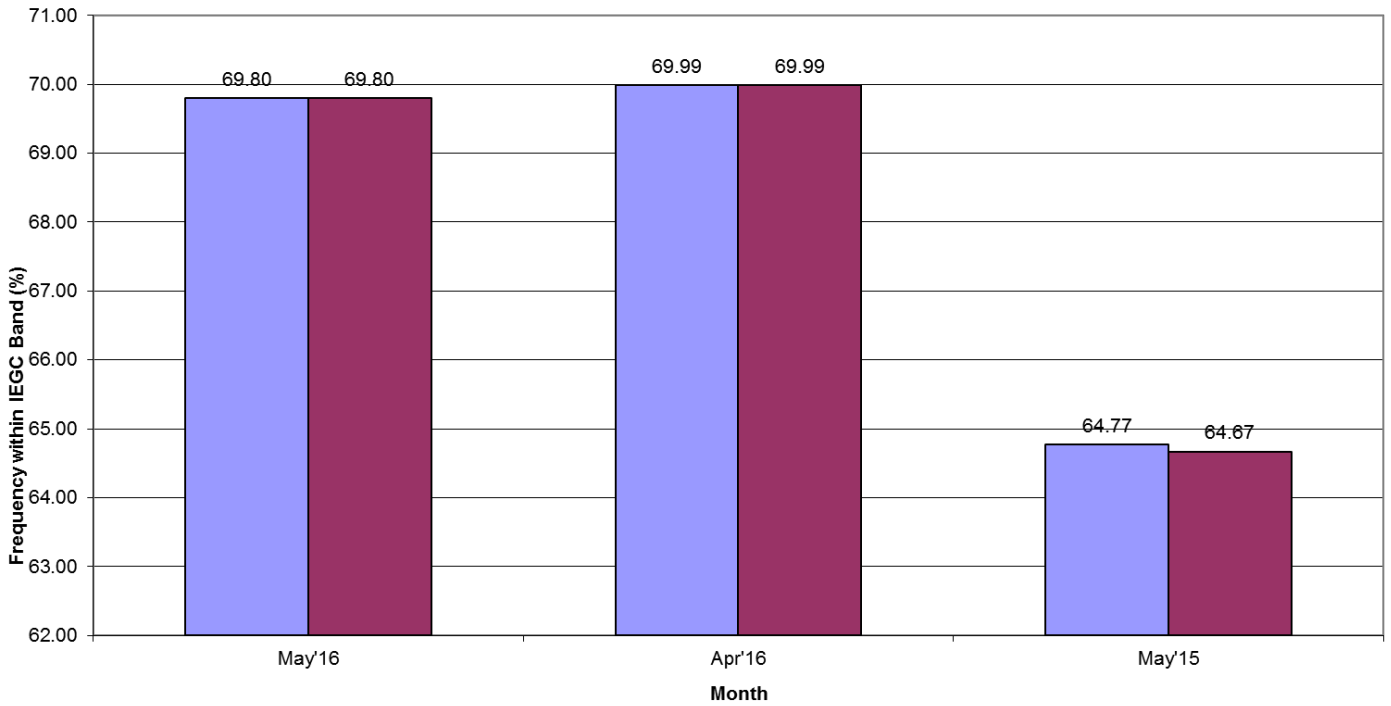
Average wind generation (MU/day)

Increased by 104.95% as compared to Apr 2016

Increased by 66.96% as compared to May 2015



Frequency within IEGC Band



- W.e.f 17th 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 31.05.2016
(All figures are in MW)

S No	Region	THERMAL				NUCLEAR	HYDRO	RES @ MNRE	GRAND TOTAL
		COAL	GAS	DIESEL	TOTAL				
1	NR	45865	5331	0	51196	1620	18247	8630	79693
2	WR	72403	10815	0	83218	1840	7448	15315	107821
3	SR	37043	6474	843	44359	2320	11558	18154	76391
4	ER	30623	190	0	30813	0	4289	475	35577
5	NER	310	1698	36	2044	0	1242	264	3550
6	ISLANDS	0	0	40	40	0	0	11	51
		186243	24509	919	211670	5780	42783	42849	303083

Remarks: Data from CEA website

3. राष्ट्रीय स्तर पर संध्याकालीन शिखर विद्युत मांग पूर्ति

PEAK DEMAND MET AT NATIONAL LEVEL

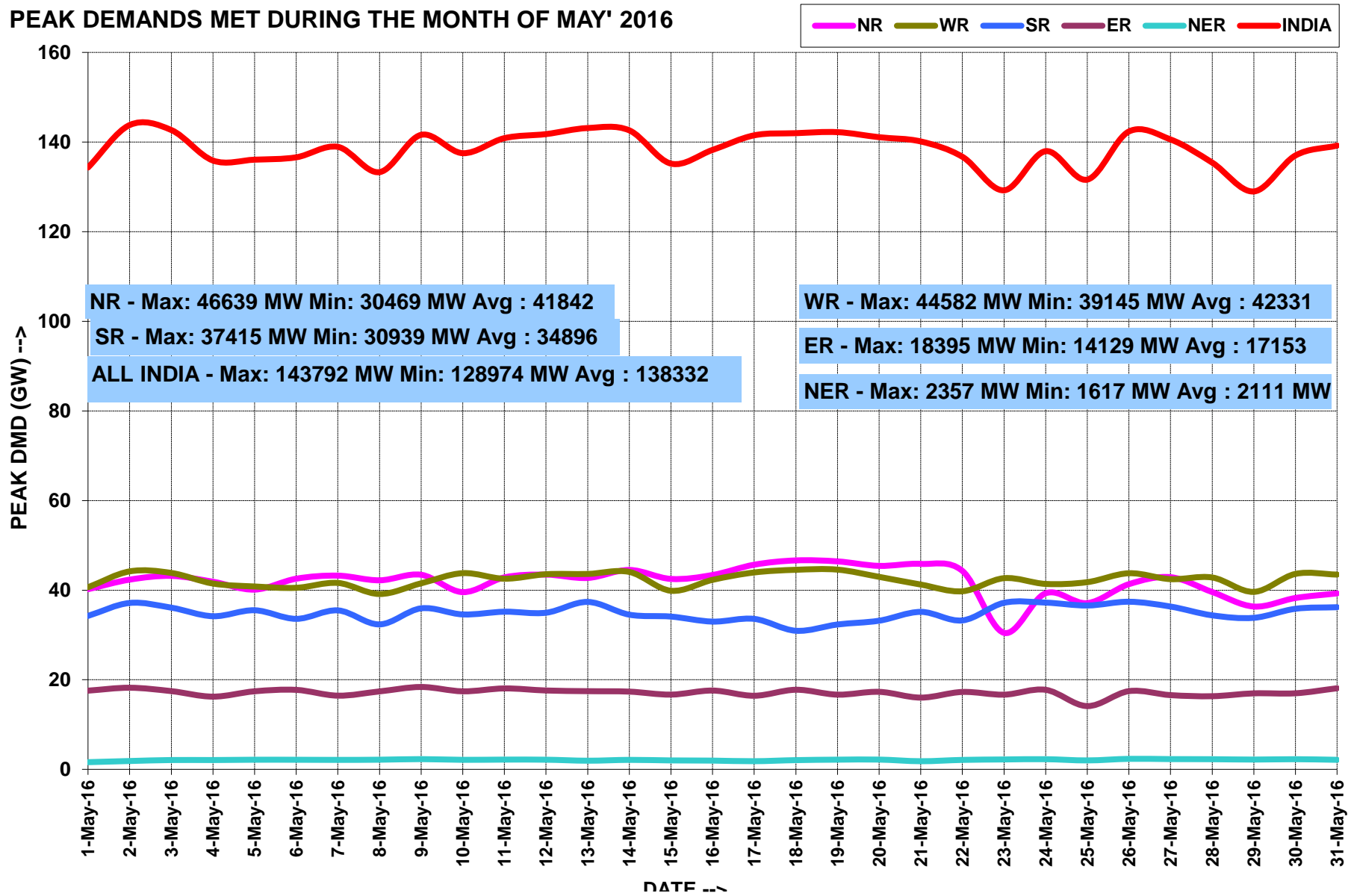
माह:- मई 2016 MONTH:- May 2016

सभी आंकड़े मेगावाट में All figures in MW

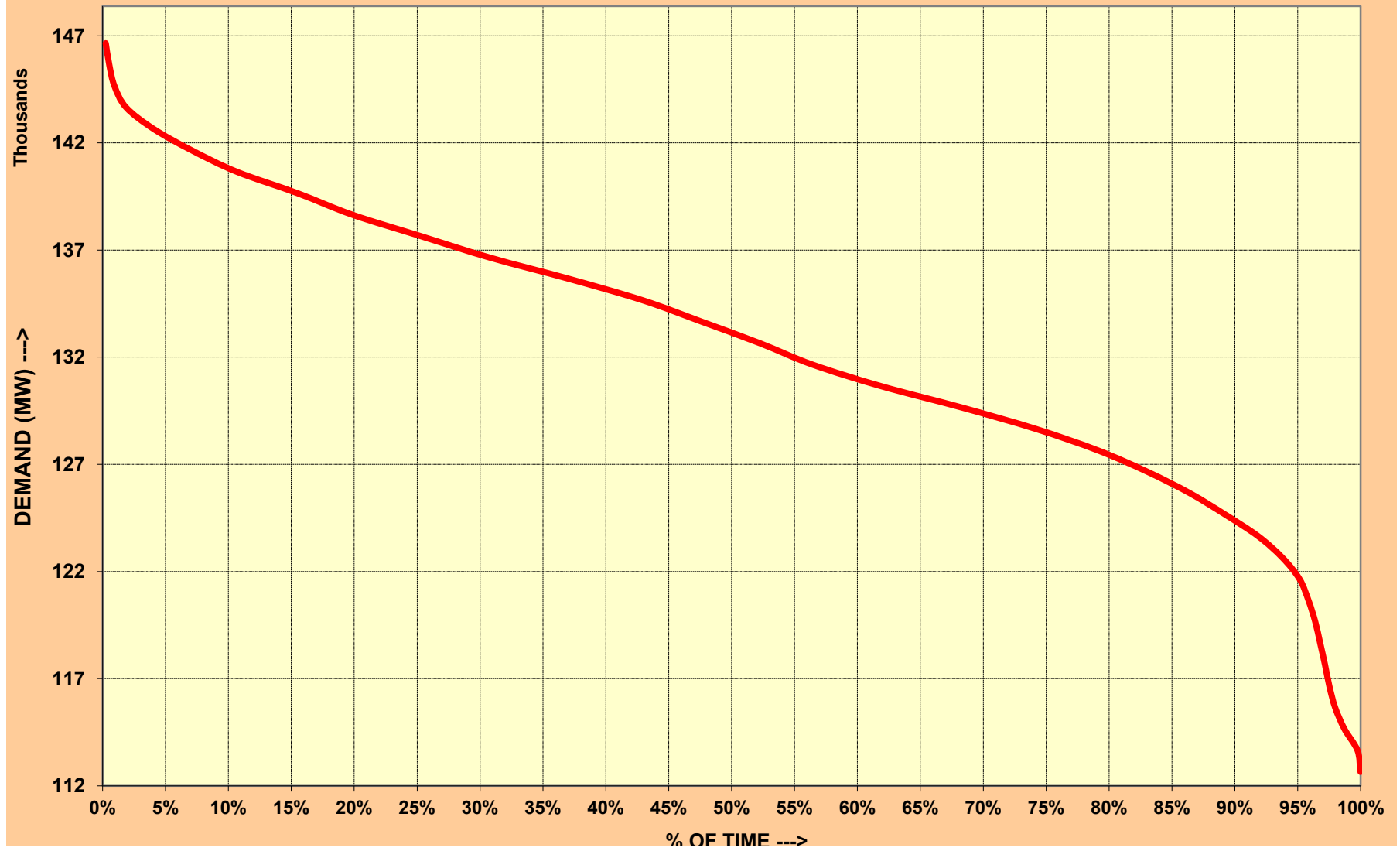
दिनांक Date	उत्तरी क्षे. NR	पश्चिमी क्षे. WR	दक्षिणी क्षे. SR	पूर्वी क्षे. ER	पूर्वोत्तर क्षे. NER	कुल TOTAL
01-May-16	40216	40649	34266	17575	1617	134323
02-May-16	42353	44194	37146	18226	1873	143792
03-May-16	43179	43841	36092	17469	2096	142677
04-May-16	41879	41474	34184	16242	2092	135871
05-May-16	40126	40823	35516	17433	2163	136061
06-May-16	42558	40526	33598	17748	2156	136586
07-May-16	43241	41613	35486	16458	2126	138924
08-May-16	42199	39145	32363	17407	2167	133282
09-May-16	43434	41529	35946	18395	2298	141602
10-May-16	39561	43795	34586	17428	2139	137510
11-May-16	42849	42560	35192	18073	2190	140864
12-May-16	43471	43555	34966	17610	2167	141769
13-May-16	42726	43619	37374	17459	1944	143122
14-May-16	44511	44069	34531	17360	2130	142601
15-May-16	42507	39867	34106	16695	2008	135183
16-May-16	43384	42307	32986	17599	1966	138242
17-May-16	45683	43950	33589	16441	1833	141496
18-May-16	46639	44546	30939	17775	2072	141971
19-May-16	46420	44582	32339	16686	2176	142203
20-May-16	45418	42969	33184	17311	2192	141074
21-May-16	45867	41248	35156	16025	1831	140127
22-May-16	44292	39756	33250	17287	2123	136708
23-May-16	30469	42673	37180	16682	2221	129225
24-May-16	39309	41392	37223	17761	2280	137965
25-May-16	37110	41788	36575	14129	2012	131614
26-May-16	41339	43775	37415	17468	2357	142353
27-May-16	42896	42458	36340	16577	2299	140570
28-May-16	39585	42829	34380	16336	2278	135408
29-May-16	36348	39622	33832	16974	2198	128974
30-May-16	38255	43630	35847	16989	2280	137001
31-May-16	39282	43480	36194	18111	2142	139209
उच्चतम MAXIMUM	46639	44582	37415	18395	2357	143792
निम्नतम MINIMUM	30469	39145	30939	14129	1617	128974
औसत AVERAGE	41842	42331	34896	17153	2111	138332
अब तक का उच्चतम All Time Max.	50354	47617	38744	18862	2357	147655
दिनांक Date	11.09.15	20.10.15	13.04.16	12.04.16	26.05.16	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 MAY' 2016



ALL INDIA LOAD DURATION CURVE FOR MAY' 2016

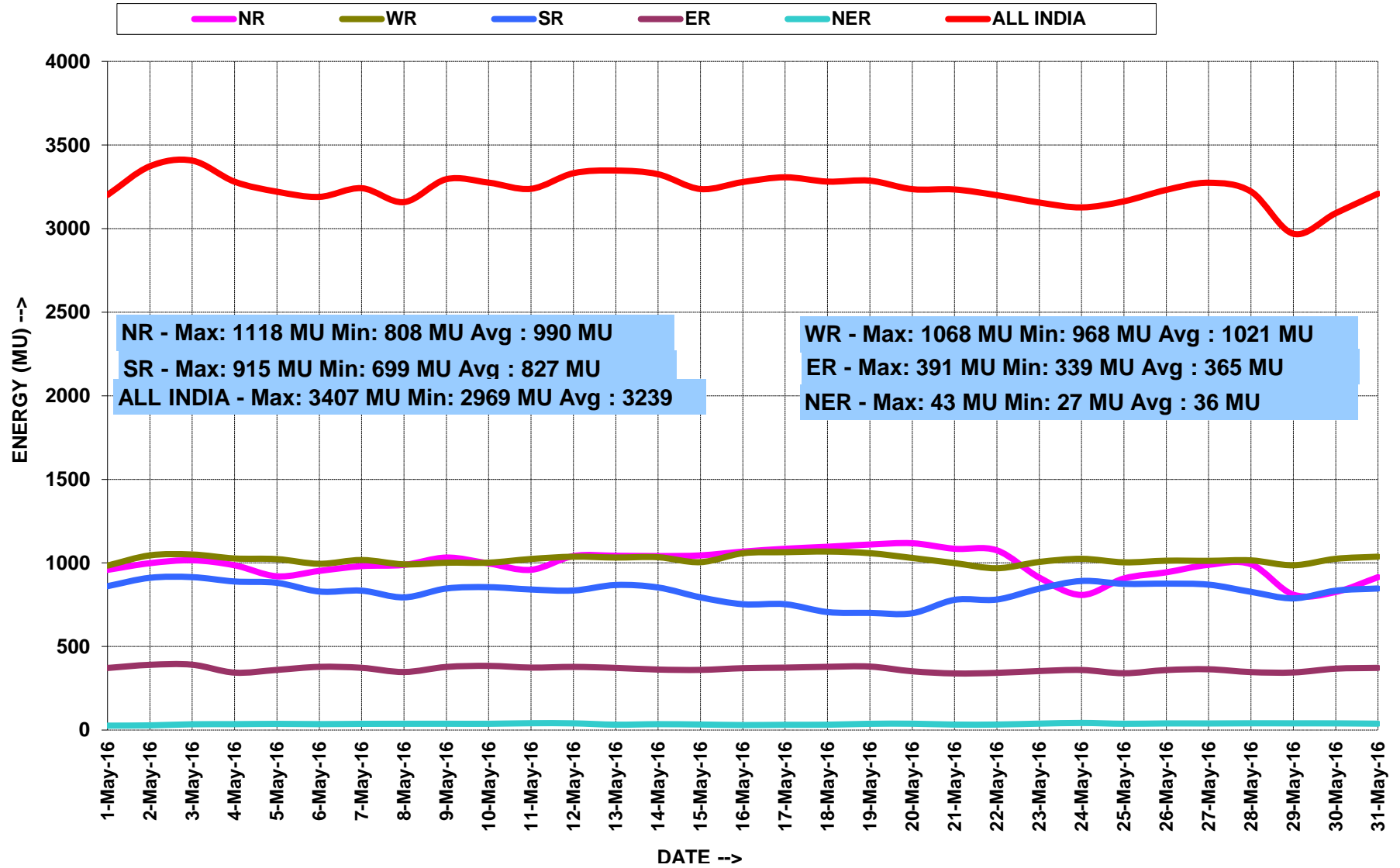


4. राष्ट्रीय स्तर पर विद्युत ऊर्जा आपूर्ति ENERGY MET AT NATIONAL LEVEL

माह:- मई 2016 MONTH:- May 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-May-16	958	984	861	372	27	3202
02-May-16	999	1045	911	390	28	3373
03-May-16	1016	1050	915	391	35	3407
04-May-16	986	1027	889	344	35	3281
05-May-16	920	1023	881	360	37	3221
06-May-16	952	995	829	378	36	3190
07-May-16	981	1017	834	372	37	3242
08-May-16	988	991	794	347	38	3159
09-May-16	1032	1001	847	378	38	3296
10-May-16	997	1002	855	384	38	3275
11-May-16	959	1024	841	374	41	3238
12-May-16	1041	1037	835	378	40	3331
13-May-16	1043	1032	868	372	32	3347
14-May-16	1041	1034	853	362	35	3325
15-May-16	1045	1005	794	360	33	3237
16-May-16	1068	1058	753	370	30	3279
17-May-16	1085	1064	753	374	32	3307
18-May-16	1097	1068	706	378	32	3281
19-May-16	1110	1058	701	380	38	3287
20-May-16	1118	1030	699	352	38	3236
21-May-16	1085	999	779	339	33	3234
22-May-16	1075	968	781	342	33	3200
23-May-16	912	1006	846	353	39	3156
24-May-16	808	1025	892	359	43	3127
25-May-16	907	1004	875	340	38	3163
26-May-16	944	1013	876	359	40	3232
27-May-16	989	1012	870	364	40	3274
28-May-16	992	1015	827	347	41	3222
29-May-16	810	986	788	345	40	2969
30-May-16	826	1025	834	367	40	3092
31-May-16	915	1037	847	372	38	3209
कुल TOTAL	30698	31637	25634	11304	1122	100395
उच्चतम MAXIMUM	1118	1068	915	391	43	3407
निम्नतम MINIMUM	808	968	699	339	27	2969
औसत AVERAGE	990	1021	827	365	36	3239
अब तक का उच्चतम All Time Max.	1147	1131	945	409	44	3407
दिनांक Date	11.09.15	20.10.15	28.04.16	20.04.16	18.09.15	03.05.16

ENERGY MET DURING THE MONTH OF MAY' 2016



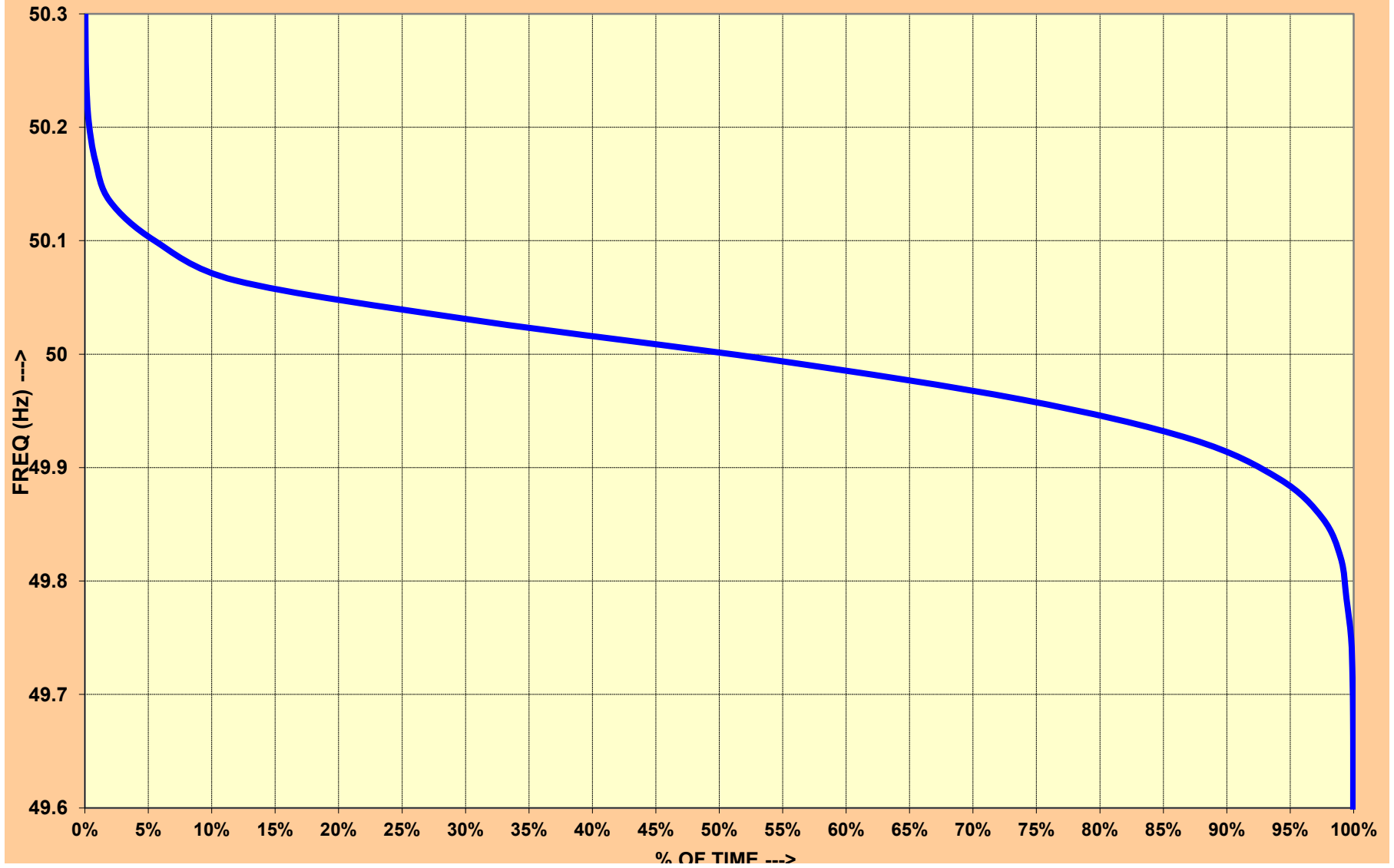
5.वर्ष 2016-17 के लिए आवृत्ति रूपरेखा FREQUENCY PROFILE FOR YEAR 2016-17

राष्ट्रीय गिड NATIONAL GRID									
फ़िक्वेन्सी रूपरेखा (Hz)			49.0-49.9	<49.9	49.9-50.05	>50.05	उच्चतम फ़िक्वेन्सी	निम्नतम फ़िक्वेन्सी	औसत फ़िक्वेन्सी
% समय	May-16	All India Grid	6.69	6.69	69.80	23.52	50.44	49.56	50.00
	Apr-16		12.87	12.87	69.99	17.14	50.32	49.64	49.98

5.2 मई 2016 के लिए आवृत्ति रूपरेखा FREQUENCY PROFILE FOR MAY 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-May-16	0.00	2.80	2.80	65.57	31.63	50.30	49.85	50.02
	02-May-16	0.00	3.24	3.24	72.01	24.75	50.36	49.78	50.01
	03-May-16	0.00	5.96	5.96	74.35	19.69	50.21	49.77	50.00
	04-May-16	0.00	3.91	3.91	68.13	27.96	50.33	49.83	50.02
	05-May-16	0.00	2.55	2.55	71.10	26.35	50.23	49.84	50.01
	06-May-16	0.00	2.22	2.22	66.74	31.04	50.24	49.85	50.02
	07-May-16	0.00	2.73	2.73	73.38	23.89	50.18	49.82	50.01
	08-May-16	0.00	0.79	0.79	60.69	38.52	50.42	49.79	50.04
	09-May-16	0.00	4.75	4.75	81.18	14.07	50.17	49.73	50.00
	10-May-16	0.00	6.42	6.42	75.16	18.41	50.17	49.77	50.00
	11-May-16	0.00	5.10	5.10	67.09	27.80	50.21	49.74	50.01
	12-May-16	0.00	7.20	7.20	77.82	14.98	50.17	49.78	49.99
	13-May-16	0.00	9.56	9.56	76.44	14.00	50.17	49.78	49.99
	14-May-16	0.00	10.84	10.84	75.65	13.51	50.16	49.73	49.98
	15-May-16	0.00	7.19	7.19	75.16	17.65	50.21	49.71	50.00
	16-May-16	0.00	4.94	4.94	78.89	16.17	50.15	49.83	50.00
	17-May-16	0.00	2.11	2.11	77.72	20.17	50.17	49.84	50.01
	18-May-16	0.00	5.97	5.97	70.02	24.00	50.44	49.79	50.01
	19-May-16	0.00	7.09	7.09	76.60	16.31	50.20	49.75	50.00
	20-May-16	0.00	4.25	4.25	70.87	24.88	50.24	49.78	50.01
	21-May-16	0.00	2.23	2.23	66.82	30.95	50.26	49.83	50.02
	22-May-16	0.00	2.81	2.81	67.85	29.34	50.28	49.81	50.02
	23-May-16	0.00	2.00	2.00	53.02	44.98	50.34	49.82	50.04
	24-May-16	0.00	20.22	20.22	48.14	31.64	50.26	49.71	49.99
	25-May-16	0.00	2.58	2.58	64.91	32.51	50.22	49.83	50.02
	26-May-16	0.00	21.91	21.91	65.36	12.73	50.15	49.56	49.96
	27-May-16	0.00	19.10	19.10	72.29	8.61	50.18	49.70	49.96
	28-May-16	0.00	10.84	10.84	64.22	24.93	50.20	49.79	49.99
	29-May-16	0.00	1.01	1.01	52.72	46.27	50.27	49.85	50.04
	30-May-16	0.00	8.37	8.37	76.41	15.22	50.18	49.78	49.99
	31-May-16	0.00	16.54	16.54	77.34	6.12	50.18	49.63	49.96

ALL INDIA FREQUENCY DURATION CURVE FOR MAY' 2016



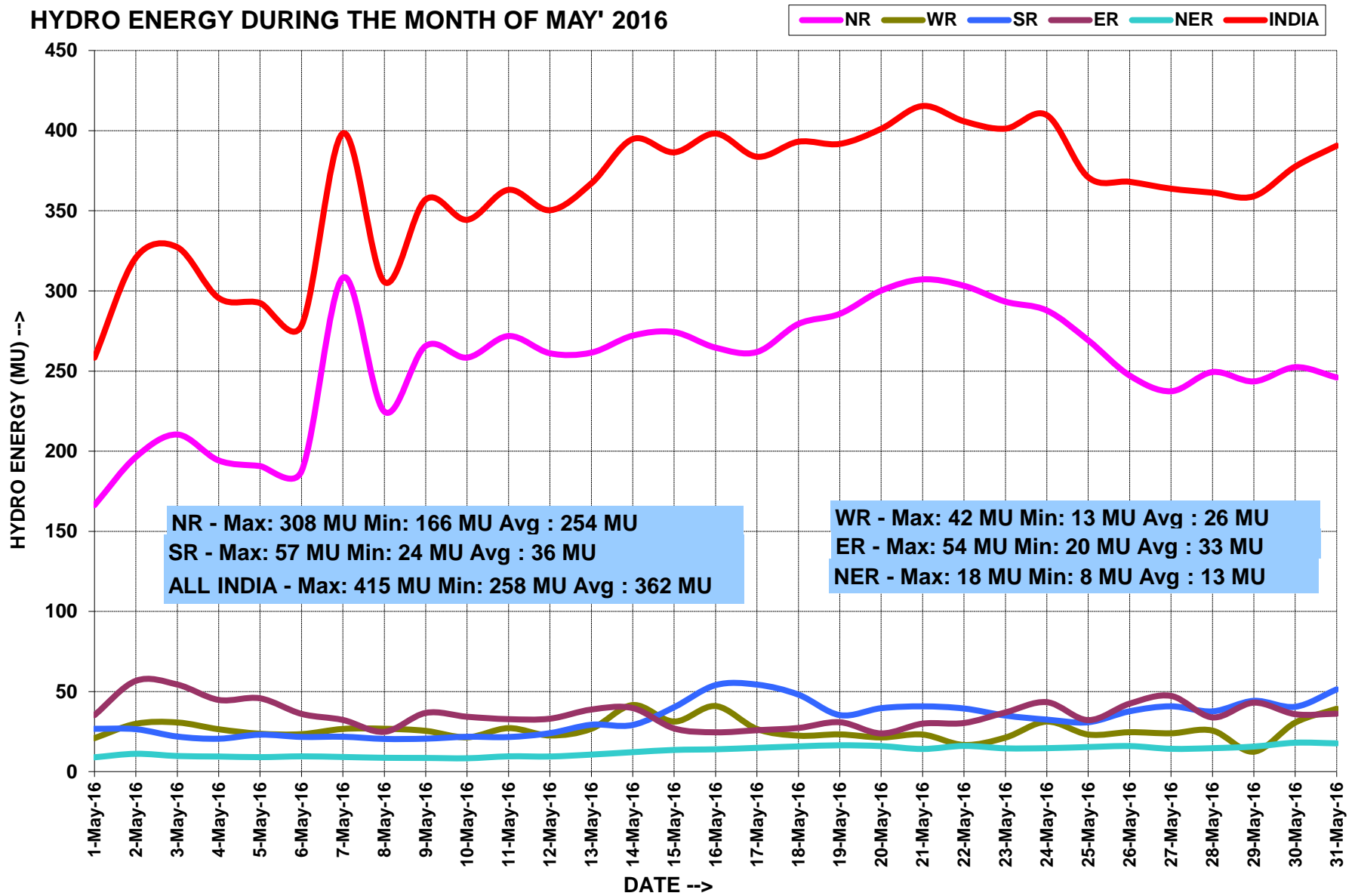
6.राष्ट्रीय स्तर पर जल विद्युत उत्पादन
HYDRO GENERATION AT NATIONAL LEVEL

माह:- मई 2016 MONTH:- May 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-May-16	166	21	35	27	9	258
02-May-16	196	30	57	27	11	321
03-May-16	210	31	54	22	10	327
04-May-16	194	27	45	21	10	296
05-May-16	191	24	46	23	9	292
06-May-16	188	23	36	22	10	278
07-May-16	308	27	32	22	9	398
08-May-16	225	27	25	20	9	306
09-May-16	266	25	37	21	9	357
10-May-16	258	21	34	22	8	344
11-May-16	272	27	33	22	10	363
12-May-16	261	23	33	24	10	350
13-May-16	262	27	39	29	11	367
14-May-16	272	42	40	29	12	395
15-May-16	274	31	27	40	14	386
16-May-16	265	41	25	54	14	398
17-May-16	262	27	26	54	15	384
18-May-16	279	22	27	48	16	393
19-May-16	286	23	31	35	17	392
20-May-16	300	21	24	40	16	401
21-May-16	307	23	30	41	14	415
22-May-16	303	17	30	39	16	406
23-May-16	293	21	37	35	15	401
24-May-16	288	31	43	33	15	410
25-May-16	269	23	32	31	15	371
26-May-16	247	25	43	38	16	368
27-May-16	237	24	47	41	14	364
28-May-16	249	26	34	38	15	361
29-May-16	244	13	43	44	16	359
30-May-16	252	31	36	41	18	378
31-May-16	246	39	36	51	18	391
कुल TOTAL	7872	813	1117	1032	397	11231
उच्चतम MAXIMUM	308	42	57	54	18	415
निम्नतम MINIMUM	166	13	24	20	8	258
औसत AVERAGE	254	26	36	33	13	362
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 MAY' 2016



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

माह:- मई 2016

MONTH:- May 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-May-16	17	48	22	-----	-----	87
02-May-16	25	57	24	-----	-----	106
03-May-16	31	48	19	-----	-----	97
04-May-16	14	45	17	-----	-----	76
05-May-16	4	28	16	-----	-----	48
06-May-16	1	30	23	-----	-----	55
07-May-16	7	28	13	-----	-----	47
08-May-16	24	37	11	-----	-----	72
09-May-16	25	37	13	-----	-----	75
10-May-16	26	37	13	-----	-----	77
11-May-16	12	33	13	-----	-----	58
12-May-16	13	41	19	-----	-----	72
13-May-16	18	48	31	-----	-----	98
14-May-16	16	48	20	-----	-----	84
15-May-16	9	45	13	-----	-----	67
16-May-16	12	45	10	-----	-----	67
17-May-16	10	40	22	-----	-----	72
18-May-16	19	52	42	-----	-----	112
19-May-16	19	70	53	-----	-----	142
20-May-16	21	105	75	-----	-----	200
21-May-16	35	126	109	-----	-----	270
22-May-16	33	125	98	-----	-----	256
23-May-16	30	127	115	-----	-----	272
24-May-16	29	106	104	-----	-----	240
25-May-16	38	108	114	-----	-----	260
26-May-16	38	95	97	-----	-----	229
27-May-16	36	86	90	-----	-----	213
28-May-16	37	93	72	-----	-----	201
29-May-16	37	109	72	-----	-----	219
30-May-16	30	94	89	-----	-----	213
31-May-16	27	77	89	-----	-----	192
कुल TOTAL	692	2069	1516	-----	-----	4277
उच्चतम MAXIMUM	38	127	115	-----	-----	272
निम्नतम MINIMUM	1	28	10	-----	-----	47
औसत AVERAGE	22	67	49	-----	-----	138
अब तक का उच्चतम All Time Max.	38.0	126.6	126.5	273.1
दिनांक Date	25.05.16	23.05.16	08.07.15	06.07.15

8. ACTUAL POWER SUPPLY POSITION - May 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	5.6	5.6	0.0	172.8	172.8	0.0	0.0	361	361	0	0.0
	Delhi	104.6	104.6	0.0	3243.6	3242.4	-1.2	0.0	6308	6188	-120	-1.9
	Haryana	135.3	135.2	0.0	4193.6	4192.1	-1.5	0.0	7950	7950	0	0.0
	H.P.	24.6	24.6	-0.1	763.5	761.3	-2.2	-0.3	1270	1270	0	0.0
	J&K	49.7	39.7	-9.9	1539.6	1231.3	-308.3	-20.0	2478	2102	-376	-15.2
	Punjab	149.5	149.5	0.0	4634.6	4634.6	0.0	0.0	7707	7707	0	0.0
	Rajasthan	200.8	200.6	-0.3	6225.8	6217.8	-8.0	-0.1	10038	10038	0	0.0
	U.P.	298.0	293.6	-4.4	9237.4	9100.7	-136.7	-1.5	15320	14970	-350	-2.3
	Uttarakhand	37.8	37.5	-0.2	1170.3	1162.8	-7.5	-0.6	2013	1938	-75	-3.7
NFF/Railway	2.2	2.2	0.0	67.3	67.3	0.0	0.0	99	99	0	0.0	
	TOTAL	1008.0	993.0	-15.0	31248.4	30782.9	-465.5	-1.5	50644	49977	-667	-1.3
WR	Gujarat	314.1	314.1	0.0	9735.8	9735.8	0.0	0.0	15179	15142	-37	-0.2
	Madhya Pradesh	162.1	161.9	-0.2	5025.5	5018.2	-7.3	-0.1	8267	8262	-5	-0.1
	Chhattisgarh	74.6	74.5	-0.1	2311.6	2309.0	-2.6	-0.1	3600	3597	-3	-0.1
	Maharashtra	427.4	426.6	-0.9	13250.1	13223.1	-27.0	-0.2	20458	20451	-7	0.0
	Goa	9.9	9.9	0.0	307.4	307.2	-0.2	-0.1	473	473	0	0.0
	D&D	6.6	6.6	0.0	205.7	205.7	0.0	0.0	323	323	0	0.0
	DNH	16.7	16.6	0.0	516.3	515.3	-0.9	-0.2	753	753	0	0.0
	ESIL	10.7	10.7	0.0	331.8	331.1	-0.6	-0.2	729	729	0	0.0
	TOTAL	1022.1	1020.8	-1.2	31684.1	31645.4	-38.7	-0.1	47298	46886	-412	-0.9
SR	Andhra Pradesh	143.8	142.8	-1.0	4456.3	4425.9	-30.4	-0.7	7390	7361	-29	-0.4
	Telangana	125.7	125.7	0.0	3896.2	3896.8	0.6	0.0	17390	6290	-11100	-63.8
	KPTCL	187.9	180.7	-7.2	5823.6	5601.8	-221.8	-3.8	9302	9302	0	0.0
	KSEB	69.7	69.3	-0.5	2160.8	2146.8	-14.0	-0.6	3940	3939	-1	0.0
	TNEB	299.8	299.8	0.0	9292.9	9294.1	1.2	0.0	15023	15015	-8	-0.1
	PONDICHERY	7.1	7.1	0.0	221.3	221.3	0.0	0.0	362	362	0	-0.1
	TOTAL	833.9	825.4	-8.5	25851.1	25586.7	-264.4	-1.0	40846	40733	-113	-0.3
ER	Bihar	72.2	65.1	-7.1	2238.2	2019.1	-219.1	-9.8	3685	3661	-24	-0.7
	JSEB	21.5	21.5	0.0	667.0	667.0	0.0	0.0	1139	1139	0	0.0
	DVC	61.6	61.2	-0.4	1909.3	1897.8	-11.5	-0.6	2781	2781	0	0.0
	Odisha	75.7	75.7	0.0	2347.7	2347.7	0.0	0.0	4038	4038	0	0.0
	West Bengal	151.7	152.5	0.9	4701.7	4728.6	26.9	0.6	8256	8236	-20	-0.2
	Sikkim	1.1	1.1	0.0	33.7	33.7	0.0	0.0	122	122	0	0.0
	TOTAL	383.8	377.2	-6.6	11897.6	11693.9	-203.7	-1.7	19228	18993	-235	-1.2
NER	Arunachal Pradesh	2.1	2.1	0.0	66.0	66.0	0.0	0.0	119	119	0	0.0
	Assam	23.7	21.4	-2.2	733.3	664.3	-68.9	-9.4	1497	1423	-74	-4.9
	Manipur	1.9	1.8	-0.1	58.3	56.7	-1.6	-2.7	145	144	-1	-0.5
	MeSEB	3.8	3.8	0.0	118.7	118.7	0.0	0.0	282	282	0	0.0
	Mizoram	1.3	1.2	0.0	39.0	38.5	-0.5	-1.3	88	88	0	-0.3
	Nagaland	1.9	1.9	0.0	60.0	59.6	-0.4	-0.7	107	105	-2	-1.8
	Tripura	5.0	4.7	-0.3	156.0	147.0	-9.0	-5.8	252	249	-3	-1.2
	TOTAL	39.7	37.1	-2.6	1231	1151	-80.4	-6.5	2238	2161	-77	-3.4
ALL INDIA		3287.5	3253.5	-34.0	101912.4	100859.7	-1052.7	-1.0	160255	158751	-1504	-0.9

9. ENERGY COMPARISON OF MAY 2016 vs MAY 2015

REGION	STATE	Energy Requirement (MU)					Energy Met (MU)				
		May-15	May-16	Difference	% Change	Average MU/day for May-16	May-15	May-16	Difference	% Change	Average for MU/day for May-16
NR	Chandigarh	165	173	8	5	6	165	173	8	5	6
	Delhi	3036	3244	208	7	105	3035	3242	208	7	105
	Haryana	4103	4194	91	2	135	4097	4192	95	2	135
	H.P.	781	763	-18	-2	25	780	761	-19	-2	25
	J&K	1345	1540	195	14	50	1122	1231	109	10	40
	Punjab	4348	4635	287	7	150	4314	4635	320	7	150
	Rajasthan	5800	6226	426	7	201	5800	6218	418	7	201
	U.P.	9610	9237	-373	-4	298	8467	9101	633	7	294
	Uttarakhand	1158	1170	12	1	38	1139	1163	24	2	38
	NFF/Railway	63	67	4	6	2	63	67	4	6	2
TOTAL	30408	31248	840	3	1008	28982	30783	1801	6	993	
WR	Gujarat	9185	9736	551	6	314	9179	9736	557	6	314
	Madhya Pradesh	4769	5025	257	5	162	4769	5018	249	5	162
	Chhattisgarh	2441	2312	-130	-5	75	2413	2309	-104	-4	74
	Maharashtra	13055	13250	195	1	427	13009	13223	215	2	427
	Goa	281	307	26	9	10	281	307	26	9	10
	D&D	195	206	11	6	7	195	206	11	6	7
	DNH	486	516	30	6	17	485	515	30	6	17
	ESIL	265	332	67	25	11	264	331	67	26	11
TOTAL	30676	31684	1008	3	1022	30594	31645	1052	3	1021	
SR	Andhra Pradesh	4530	4456	-74	-2	144	4511	4426	-86	-2	143
	Telangana	4027	3896	-131	-3	126	3920	3897	-23	-1	126
	KPTCL	5195	5824	629	12	188	5096	5602	506	10	181
	KSEB	1960	2161	201	10	70	1944	2147	203	10	69
	TNEB	8381	9293	911	11	300	8165	9294	1129	14	300
	PONDY	208	221	13	6	7	208	221	13	6	7
TOTAL	24301	25851	1550	6	834	23844	25587	1743	7	825	
ER	Bihar	2004	2238	234	12	72	1783	2019	236	13	65
	JSEB	666	667	1	0	22	660	667	7	1	22
	DVC	1850	1909	59	3	62	1850	1898	47	3	61
	Odisha	2418	2348	-70	-3	76	2418	2348	-70	-3	76
	West Bengal	4675	4702	27	1	152	4661	4729	67	1	153
	Sikkim	25	34	9	35	1	25	34	9	35	1
TOTAL	11639	11898	259	2	384	11397	11694	297	3	377	
NER	Arunachal Pradesh	60	66	6	10	2	59	66	7	12	2
	Assam	798	733	-64	-8	24	622	664	43	7	21
	Manipur	69	58	-11	-16	2	65	57	-8	-13	2
	MeSEB	143	119	-25	-17	4	138	119	-20	-14	4
	Mizoram	40	39	-1	-3	1	39	38	-1	-3	1
	Nagaland	62	60	-2	-3	2	61	60	-1	-2	2
	Tripura	118	156	38	32	5	97	147	50	52	5
TOTAL	1290	1231	-59	-5	40	1080	1151	70	7	37	
ALL INDIA	98315	101912	3597	4	3287	95897	100860	4962	5	3254	

10. DEMAND COMPARISON OF MAY 2016 vs MAY 2015

REGION	STATE	Peak Requirement (MW)				Peak Met (MW)			
		May-15	May-16	Difference	% Change	May-15	May-16	Difference	% Change
NR	Chandigarh	324	361	37	11.4	324	361	37	11.4
	Delhi	5407	6308	901	16.7	5362	6188	826	15.4
	Haryana	7400	7950	550	7.4	7400	7950	550	7.4
	H.P.	1311	1270	-41	-3.1	1311	1270	-41	-3.1
	J&K	2285	2478	193	8.4	1987	2102	115	5.8
	Punjab	7633	7707	74	1.0	7633	7707	74	1.0
	Rajasthan	8577	10038	1461	17.0	8577	10038	1461	17.0
	U.P.	14695	15320	625	4.3	12990	14970	1980	15.2
	Uttarakhand	1965	2013	48	2.4	1925	1938	13	0.7
	NFF/Railway	100	99	-1	-1.0	100	99	-1	-1.0
WR	Gujarat	13955	15179	1224	9	13880	15142	1262	9.1
	Madhya Pradesh	7435	8267	832	11	7441	8262	821	11.0
	Chhattisgarh	3892	3600	-292	-8	3610	3597	-13	-0.4
	Maharashtra	20428	20458	30	0	20265	20451	186	0.9
	Goa	467	473	6	1	467	473	6	1.3
	D&D	305	323	18	5.9	305	323	18	5.9
	DNH	720	753	33	4.6	720	753	33	4.6
	ESIL	499	729	230	46.1	499	729	230	46.1
SR	Andhra Pradesh	6757	7390	633	9.4	6732	7361	629	9.3
	Telangana	6138	17390	11252	183.3	5947	6290	343	5.8
	KPTCL	8932	9302	370	4.1	8746	9302	556	6.4
	KSEB	3756	3940	184	4.9	3641	3939	298	8.2
	TNEB	13295	15023	1728	13.0	13038	15015	1977	15.2
	PONDY	316	362	46	14.7	314	362	48	15.3
ER	Bihar	3024	3685	661	21.9	3012	3661	649	21.5
	JSEB	1078	1139	61	5.7	1078	1139	61	5.7
	DVC	2849	2781	-68	-2.4	2849	2781	-68	-2.4
	Odisha	4031	4038	7	0.2	4031	4038	7	0.2
	West Bengal	7492	8256	764	10.2	7467	8236	769	10.3
	Sikkim	94	122	28	29.8	94	122	28	29.8
NER	Arunachal Pradesh	138	119	-19	-14.1	109	119	10	9.2
	Assam	1385	1497	112	8.1	1260	1423	163	12.9
	Manipur	160	145	-15	-9.4	153	144	-9	-5.7
	MeSEB	401	282	-118	-29.5	295	282	-13	-4.4
	Mizoram	85	88	3	3.8	84	88	4	4.8
	Nagaland	120	107	-13	-11.1	112	105	-7	-6.3
	Tripura	301	252	-49	-16.2	254	249	-5	-2.0

11. SCHEDULE AND DRAWAL OF CONSTITUENTS - May 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	172.49	194.02	21.53	12.48	5.56	6.26	0.69
	Delhi	2679.84	2671.81	-8.03	-0.30	86.45	86.19	-0.26
	Haryana	3028.65	3006.77	-21.88	-0.72	97.70	96.99	-0.71
	H.P.	267.38	280.92	13.55	5.07	8.63	9.06	0.44
	J&K	543.03	491.35	-51.68	-9.52	17.52	15.85	-1.67
	Punjab	2343.11	2263.27	-79.85	-3.41	75.58	73.01	-2.58
	Rajasthan	1653.17	1636.43	-16.73	-1.01	53.33	52.79	-0.54
	U.P.	4252.83	4272.89	20.06	0.47	137.19	137.84	0.65
	Uttarakhand	701.93	673.01	-28.92	-4.12	22.64	21.71	-0.93
	NFF/Railway	57.96	67.20	9.25	15.95	1.87	2.17	0.30
WR	Gujarat	2187.71	2199.42	11.70	0.53	70.57	70.95	0.38
	Madhya Pradesh	3127.29	3070.42	-56.87	-1.82	100.88	99.05	-1.83
	Maharashtra	4057.58	4072.90	15.32	0.38	130.89	131.38	0.49
	Chhattisgarh	695.62	706.20	10.58	1.52	22.44	22.78	0.34
	Goa	257.51	295.36	37.84	14.70	8.31	9.53	1.22
	D&D	184.83	192.36	7.53	4.08	5.96	6.21	0.24
	D&NH	490.94	482.82	-8.12	-1.65	15.84	15.57	-0.26
	ESIL	297.89	311.94	14.05	4.72	9.61	10.06	0.45
SR	Andhra Pradesh	552.15	560.63	8.48	1.54	17.81	18.08	0.27
	Telangana	2298.60	2274.80	-23.80	-1.04	74.15	73.38	-0.77
	KPTCL	1791.97	1810.19	18.22	1.02	57.81	58.39	0.59
	KSEB	1660.29	1717.93	57.64	3.47	53.56	55.42	1.86
	TNEB	4137.94	4232.55	94.61	2.29	133.48	136.53	3.05
	PONDICHERRY	233.78	221.30	-12.48	-5.34	7.54	7.14	-0.40
ER	Bihar	1924.99	1898.76	-26.23	-1.36	62.10	61.25	-0.85
	JSEB	444.20	456.45	12.25	2.76	14.33	14.72	0.40
	DVC	-975.10	-947.06	28.05	-2.88	-31.45	-30.55	0.90
	GRIDCO	811.27	843.51	32.24	3.97	26.17	27.21	1.04
	WBSEB	1259.26	1281.27	22.01	1.75	40.62	41.33	0.71
	Sikkim	37.65	33.71	-3.94	-10.48	1.21	1.09	-0.13
NER	Arunachal Pradesh	64.17	66.03	1.87	2.91	2.07	2.13	0.06
	Assam	534.41	541.41	7.00	1.31	17.24	17.46	0.23
	Manipur	58.50	56.74	-1.76	-3.01	1.89	1.83	-0.06
	MeSEB	44.56	34.51	-10.05	-22.56	1.44	1.11	-0.32
	Mizoram	35.36	36.40	1.04	2.93	1.14	1.17	0.03
	Nagaland	59.19	57.48	-1.71	-2.89	1.91	1.85	-0.06
	Tripura	90.81	88.10	-2.71	-2.98	2.93	2.84	-0.09

12. INTER REGIONAL EXCHANGES 2016-17			
	April'16	May'16	Fin. Year 2016-17 (till May 2016)
Name of Line			
Import of NR from WR (WR-NR)			
WR - NR 765 kV Gwalior - Agra D/C	1910.35	1673.93	3584.28
WR-NR 765 kV Gwalior - Phagi D/C	564.39	335.59	899.98
WR - NR HVDC Vindhyachal	127.02	46.28	173.30
WR - NR 400 kV Zerda Kankroli	0.00	0.00	0.00
WR - NR 400 kV Zerda Bhinmal	0.53	0.00	0.53
WR - NR 220 kV Badod - Kota/ Modak	5.71	18.99	24.70
WR - NR 220 kV Auraiya - Malanpur/Mehgaon	3.00	1.33	4.33
WR - NR 400 kV Vindhyachal-Rihand	0.00	0.00	0.00
WR - NR HVDC Mundra - Mohindergarh	1712.21	1621.73	3333.94
Total WR - NR	4323.20	3697.86	8021.06
Import of NR from ER (ER-NR)			
ER - NR 765 kV Sasaram - Fatehpur	0.23	2.45	2.68
ER - NR 765 kV Gaya - Varanasi 2*S/C	155.61	69.65	225.26
ER - WR 765 kV Gaya - Balia	94.45	61.38	155.83
ER-NR 400 kV Patna - Balia 2xD/C	232.02	347.01	579.03
ER - NR 400 kV Muzaffarpur - Gorakhpur D/C	52.88	106.93	159.81
ER - NR 400 kV Biharshariff - Balia D/C	94.07	53.79	147.87
ER - NR 400 kV Barh - G'pur D/C	210.89	277.55	488.44
ER - NR 400 kV Biharshariff - Varanasi D/C	9.30	6.55	15.85
ER - NR HVDC Sasaram (Bypass)	128.99	190.08	319.07
ER - NR 220 kV Pusauli - Sahupuri	106.82	116.07	222.89
ER - NR 132 kV Sahupuri - Karamnasa	14.40	7.14	21.54
ER - NR 132 kV Rihand - Son Nagar	0.00	0.00	0.00
Total ER-NR	1099.66	1238.60	2338.26
Import of NR from NER (NER-NR)			
NER-NR HVDC Biswanath Chariali - Agra	317.02	284.77	601.79
Total NER - NR	317.02	284.77	601.79
Export of NR to WR (NR-WR)			
NR - WR 765 kV Gwalior - Agra D/C	0.00	0.00	0.00
NR - WR 765 kV Gwalior - Phagi D/C	0.00	0.00	0.00
NR - WR HVDC Vindhyachal	12.39	85.56	97.95
NR - WR 400 kV Zerda Kankroli	137.71	140.87	278.58
NR - WR 400 kV Zerda Bhinmal	91.55	100.42	191.97
NR - WR 220 kV Badod - Kota/ Modak	12.38	9.08	21.46
NR - WR 220 kV Auraiya - Malanpur/Mehgaon	17.40	16.03	33.43
NR-WR 400 kV Rihand-Vindhyachal	0.00	0.00	0.00
NR - WR HVDC Mundra - Mohindergarh	0.00	0.00	0.00
Total NR - WR	271.43	351.95	623.38
Export of NR to ER (NR-ER)			
NR - ER 765 kV Sasaram - Fatehpur	96.68	101.63	198.31
NR - ER 765 kV Gaya - Varanasi 2*S/C	2.36	9.16	11.52
NR - ER 765 kV Gaya - Balia	0.00	0.00	0.00
NR - ER 400 kV Patna - Balia 2xD/C	0.00	0.00	0.00
NR - ER 400 kV Muzaffarpur - Gorakhpur D/C	12.38	4.33	16.70
NR - ER 400 kV Biharshariff - Balia D/C	0.00	1.25	1.25
ER - NR 400 kV Barh - G'pur D/C	0.00	0.00	0.00
NR - ER 400 kV Biharshariff - Varanasi D/C	157.78	64.28	222.06
NR - ER HVDC Sasaram (Bypass)	3.72	13.23	16.95
NR - ER 220 kV Pusauli - Sahupuri	0.00	0.00	0.00
NR - ER 132 kV Sahupuri - Karamnasa	0.00	1.26	1.26
NR - ER 132 kV Rihand - Son Nagar	16.28	17.82	34.10
Total NR - ER	289.20	212.96	502.16
Export of NR to NER (NER-NR)			
NR-NER HVDC Biswanath Chariali - Agra	0.00	0.00	0.00
Total NR - NER	0.00	0.00	0.00

Export of WR to ER (WR-ER)			
WR - ER 765 kV Ranchi - Dharamjaygarh	58.51	18.86	77.38
WR - ER 765 kV Dharamjaygarh - Jharsuguda D/C	0.00	0.00	0.00
WR - ER 400 kV Sipat - Ranchi D/C	163.93	99.07	263.00
WR - ER 400 kV Raigarh - Sterlite	14.64	19.53	34.18
WR - ER 400 kV Raigarh-Ind Bharat	54.26	13.84	68.10
WR - ER 400 kV Raigarh-Rourkela	55.15	20.19	75.34
WR - ER 400 kV Raigarh - Jharsuguda	77.26	19.59	96.85
WR - ER 220 kV Korba - Budhipadar D/C	77.56	74.65	152.20
WR - ER 220 kV Raigarh - Budhipadar	5.19	11.58	16.77
Total WR - ER	506.50	277.32	783.82
Import of WR from ER (ER - WR)			
ER - WR 765 kV Ranchi - Dharamjaygarh	7.12	28.02	35.14
ER - WR 765 kV Dharamjaygarh - Jharsuguda D/C	476.40	392.09	868.50
ER - WR 400 kV Sipat - Ranchi D/C	0.00	0.00	0.00
ER - WR 400 kV Raigarh - Sterlite	71.10	4.96	76.06
ER - WR 400 kV Raigarh-Ind Bharat	1.90	5.62	7.51
ER - WR 400 kV Raigarh-Rourkela	0.12	3.58	3.69
ER - WR 400 kV Raigarh - Jharsuguda	2.83	8.89	11.71
ER - WR 220 kV Korba - Budhipadar D/C	0.00	0.00	0.00
ER - WR 220 kV Raigarh - Budhipadar	9.20	7.63	16.83
Total ER - WR	568.67	450.79	1019.46
Export of ER to NER (ER - NER)			
ER - NER 400 kV Binaguri - Bongaigaon 2xD/C	351.64	206.60	558.24
ER - NER 220 kV Birpara - Salakati D/C	37.77	28.43	66.20
Total ER - NER	389.41	235.03	624.44
Import of ER from NER (NER - ER)			
NER - ER 400 kV Binaguri - Bongaigaon 2xD/C	0.00	7.07	7.07
NER - ER 220 kV Birpara - Salakati D/C	0.00	0.26	0.26
Total NER - ER	0.00	7.33	7.33
Export of ER to SR (ER - SR)			
ER - SR HVDC Gazuwaka	302.43	355.83	658.25
ER - SR HVDC Talchar - Kolar	1309.89	1296.20	2606.09
Total ER - SR	1612.32	1652.03	3264.35
Import of ER from SR (SR - ER)			
SR - ER HVDC Gazuwaka	0.00	0.00	0.00
SR - ER HVDC Talchar - Kolar	0.00	0.00	0.00
Total SR - ER	0.00	0.00	0.00
Export of WR to SR (WR-SR)			
WR - SR HVDC Bhadravati	713.62	640.84	1354.46
WR - SR 765 kV Sholapur - Raichur	1345.88	1165.09	2510.97
WR - SR 400KV Kolhapur-Kudgi D/C	41.69	50.95	92.63
Total WR - SR	2101.18	1856.88	3958.06
Import of WR from SR (SR - WR)			
SR - WR HVDC Bhadravati	0.00	0.00	0.00
SR - WR 765 kV Raichur - Sholapur	0.00	4.47	4.47
SR - WR 400KV Kolhapur-Kudgi D/C	14.56	11.09	25.64
Total SR - WR	14.56	15.56	30.12
TOTAL ALL INDIA	11176	9996	21172

12.1 Import of NR from WR, ER & NER during May 2016																									
Date	Import of NR from WR (WR-NR)										Import of NR from ER (ER-NR)										Import of NR from NER (NER-NR)				
	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 Zerda- Kankroli	WR - NR 400 kV Zerda- Bhinmal	WR - NR 220 kV Badod - Kota / Modak	WR - NR 220 kV Auraiya - Matanpur /Mehgaon	WR-NR 400 KV Rihand Vindhyachal	WR - NR HVDC Mundra - M'garh	Total WR - NR	ER - NR 765 kV Sasaram - Fatehpur	ER - NR 765 kV Gaya - Varanasi 2½/3/C	ER - WR 765 kV Gaya Ballia	ER-NR 400 kV Patna - Ballia 2x0/D/C	ER - NR 400 kV Muzaffarpur - G'pur D/C	ER - NR 400 kV B'shariff - Ballia D/C	ER - NR 400 kV Barh - G'pur D/C	ER - NR 400 kV B'shariff - Varanasi D/C	ER - NR HVDC Sasaram (Bypass)	ER - NR 220 kV Pusauli - Sahupuri	ER - NR 132 kV Sahupuri - K'nasa	ER - NR 132 kV Rihand - Son Nagar	Total ER - NR	NER-NR HVDC Biswanath Chariali - Agra	Total NER-NR
1-May-16	60.29	14.08	3.65	0.00	0.00	0.00	0.00	0.00	60.45	138.46	0.00	0.00	2.22	9.23	0.00	1.66	8.19	0.00	8.96	4.12	0.00	0.00	34.38	11.61	11.61
2-May-16	57.74	14.72	2.39	0.00	0.00	0.00	0.00	0.00	60.45	135.30	0.00	0.00	1.76	8.64	0.00	0.12	9.61	0.00	9.05	4.53	0.00	0.00	33.71	11.68	11.68
3-May-16	56.76	11.21	4.26	0.00	0.00	0.00	0.00	0.00	57.61	129.84	0.50	1.40	2.29	10.16	0.00	3.18	9.31	4.89	9.17	4.45	0.00	0.00	45.35	11.63	11.63
4-May-16	56.55	13.23	0.54	0.00	0.00	0.07	0.00	0.00	56.21	126.60	0.00	3.32	1.74	11.94	1.36	2.52	9.92	0.00	9.27	4.56	0.96	0.00	45.59	11.67	11.67
5-May-16	57.66	7.92	0.00	0.00	0.00	0.00	0.00	0.00	50.64	116.22	0.00	4.46	1.66	10.23	0.00	1.71	9.25	0.00	9.05	4.49	0.48	0.00	41.33	11.64	11.64
6-May-16	58.57	6.14	0.92	0.00	0.00	0.00	0.71	0.00	59.95	126.30	0.00	3.80	1.17	9.20	0.00	0.04	10.08	0.00	9.08	4.75	0.48	0.00	38.60	11.85	11.85
7-May-16	50.81	5.68	3.10	0.00	0.00	0.48	0.00	0.00	54.23	114.30	0.00	11.63	1.61	10.87	0.75	0.00	8.32	0.00	9.15	4.03	0.00	0.00	46.36	10.06	10.06
8-May-16	50.81	5.68	3.10	0.00	0.00	0.00	0.00	0.00	54.23	113.82	0.00	0.83	1.61	10.87	0.75	0.00	8.32	0.00	9.15	4.03	0.00	0.00	35.56	10.06	10.06
9-May-16	56.54	5.29	1.24	0.00	0.00	0.16	0.00	0.00	55.60	118.83	0.00	0.00	2.29	8.61	0.03	0.00	7.17	0.00	9.06	4.00	0.00	0.00	31.16	9.06	9.06
10-May-16	56.49	3.73	1.37	0.00	0.00	0.00	0.00	0.00	54.05	115.64	0.00	0.00	2.40	5.62	0.00	0.00	6.26	0.00	9.08	4.41	0.00	0.00	27.75	11.60	11.60
11-May-16	56.10	4.86	0.16	0.00	0.00	0.77	0.00	0.00	50.17	112.06	0.00	0.00	2.63	7.10	1.51	1.49	8.03	0.00	3.52	4.23	0.00	0.00	28.51	10.90	10.90
12-May-16	56.13	14.61	0.13	0.00	0.00	0.27	0.00	0.00	56.50	127.64	0.00	0.74	2.30	10.12	1.33	1.18	10.78	0.00	0.00	4.23	0.00	0.00	30.69	4.91	4.91
13-May-16	58.46	14.77	2.43	0.00	0.00	0.00	0.00	0.00	53.21	128.87	0.00	0.00	1.89	10.89	4.20	1.55	8.64	0.00	2.94	4.47	0.00	0.00	34.57	0.00	0.00
14-May-16	55.11	13.06	2.77	0.00	0.00	0.70	0.00	0.00	44.65	116.28	0.00	1.72	1.30	13.20	3.80	1.39	10.89	0.00	4.91	2.52	0.00	0.00	39.73	0.00	0.00
15-May-16	52.54	11.95	3.60	0.00	0.00	0.85	0.00	0.00	49.52	118.46	0.00	1.41	1.37	11.45	4.23	1.65	9.68	0.00	4.84	1.15	0.00	0.00	35.78	11.29	11.29
16-May-16	48.59	16.40	0.55	0.00	0.00	2.09	0.00	0.00	48.65	116.27	0.00	3.59	2.03	10.75	7.69	3.67	9.00	0.70	4.82	2.85	0.48	0.00	45.58	11.56	11.56
17-May-16	59.55	16.84	0.00	0.00	0.00	1.93	0.00	0.00	52.81	131.13	0.00	3.91	2.84	12.63	7.21	5.09	8.75	0.44	4.60	1.15	0.96	0.00	47.57	11.69	11.69
18-May-16	52.05	14.56	3.18	0.00	0.00	1.88	0.00	0.00	60.46	132.13	1.69	2.87	2.61	14.84	5.84	5.32	9.21	0.52	1.45	3.83	0.96	0.00	49.15	15.17	15.17
19-May-16	55.82	17.58	1.66	0.00	0.00	1.20	0.00	0.00	56.49	132.75	0.26	2.69	2.60	14.04	4.97	4.33	9.37	0.00	1.26	4.51	0.00	0.00	44.02	18.14	18.14
20-May-16	59.07	14.83	4.28	0.00	0.00	1.92	0.00	0.00	58.30	138.40	0.00	2.29	2.11	9.92	5.56	2.61	7.74	0.00	4.79	3.66	0.00	0.00	38.68	15.42	15.42
21-May-16	59.07	15.56	0.87	0.00	0.00	1.89	0.00	0.00	55.71	133.08	0.00	2.29	1.67	13.14	6.51	2.30	5.19	0.00	4.87	4.15	0.00	0.00	40.11	15.42	15.42
22-May-16	50.39	11.77	0.00	0.00	0.00	1.60	0.00	0.00	58.04	121.80	0.00	1.97	1.41	13.59	4.65	0.60	10.25	0.00	4.87	3.98	0.96	0.00	42.28	12.00	12.00
23-May-16	35.13	8.32	0.00	0.00	0.00	0.71	0.00	0.00	38.85	83.01	0.00	0.40	1.19	11.73	1.74	0.52	9.00	0.00	4.89	4.89	0.96	0.00	35.32	0.00	0.00
24-May-16	29.59	20.52	0.00	0.00	0.00	0.46	0.00	0.00	32.23	82.79	0.00	0.84	1.34	12.88	5.47	0.91	9.93	0.00	4.71	3.63	0.48	0.00	40.19	0.00	0.00
25-May-16	53.05	12.29	0.55	0.00	0.00	-0.19	0.00	0.00	47.02	112.72	0.00	4.07	2.53	11.69	9.44	2.93	9.06	0.00	4.87	3.18	0.00	0.00	47.78	3.13	3.13
26-May-16	59.84	9.77	0.74	0.00	0.00	0.59	0.00	0.00	43.41	114.34	0.00	3.23	2.18	12.28	6.78	2.14	9.06	0.00	4.87	3.18	0.00	0.00	43.72	3.13	3.13
27-May-16	63.05	7.45	1.82	0.00	0.00	0.86	0.00	0.00	60.45	133.63	0.00	2.01	2.66	12.18	7.51	2.72	10.08	0.00	6.80	3.51	0.00	0.00	47.47	11.40	11.40
28-May-16	53.37	5.48	2.15	0.00	0.00	0.21	0.00	0.00	57.73	118.94	0.00	2.34	2.35	11.45	5.02	1.71	9.17	0.00	9.02	3.78	0.00	0.00	44.82	5.80	5.80
29-May-16	40.59	4.22	0.48	0.00	0.00	0.00	0.00	0.00	36.15	81.44	0.00	0.78	1.19	11.48	0.00	0.00	6.86	0.00	9.24	3.80	0.42	0.00	33.77	6.18	6.18
30-May-16	50.04	6.24	0.17	0.00	0.00	0.00	0.00	0.00	37.53	93.98	0.00	2.63	1.93	12.27	3.91	0.31	9.80	0.00	7.06	2.77	0.00	0.00	40.68	8.89	8.89
31-May-16	64.18	6.87	0.17	0.00	0.00	0.54	0.62	0.00	60.45	132.83	0.00	4.42	2.50	14.03	6.68	2.14	10.62	0.00	4.76	3.25	0.00	0.00	48.42	8.89	8.89
Total	1673.93	335.59	46.28	0.00	0.00	18.99	1.33	0.00	1621.73	3697.86	2.45	69.65	61.38	347.01	106.93	53.79	277.55	6.55	190.08	116.07	7.14	0.00	1238.60	284.77	284.77

12.2 Export of NR to WR, ER & NER during May 2016																									
Date	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 Zerda-Kankroll	WR - NR 400 kV Zerda-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 - Varanasi 2'S/C	ER - NR 765 kV Gaya Balla	ER-NR 400 kV Patna - Balla 2x0/C	ER - NR 400 kV Muzaffarpur - G'pur D/C	ER - NR 400 kV B'harff - Balla D/C	ER - NR 400 kV B'harff - Varanasi D/C	ER - NR HVDC Sasaram (Bypass)	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 Chariali - Agra	Total NR-NER	
1-May-16	0.00	0.00	0.00	4.90	3.03	0.54	0.41	0.00	0.00	8.88	6.71	1.28	0.00	0.00	0.52	0.00	4.82	0.00	0.00	0.00	0.56	13.89	0.00	0.00	
2-May-16	0.00	0.00	0.10	6.52	5.11	0.91	0.58	0.00	0.00	13.22	5.28	1.84	0.00	0.00	0.06	0.00	3.89	0.00	0.00	0.00	0.62	11.70	0.00	0.00	
3-May-16	0.00	0.00	0.06	6.41	5.47	1.06	0.27	0.00	0.00	13.27	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.63	0.94	0.00	0.00	0.00	
4-May-16	0.00	0.00	2.32	4.42	2.77	0.00	0.34	0.00	0.00	9.85	4.33	0.00	0.00	0.00	0.00	0.00	3.09	0.00	0.00	0.00	0.61	8.04	0.00	0.00	
5-May-16	0.00	0.00	4.57	4.67	2.91	0.50	0.32	0.00	0.00	12.97	5.52	0.00	0.00	0.00	0.55	0.00	3.97	0.00	0.00	0.00	0.64	10.68	0.00	0.00	
6-May-16	0.00	0.00	5.14	3.95	1.47	0.03	0.00	0.00	0.00	10.59	5.01	0.00	0.00	0.00	0.74	0.00	4.42	0.00	0.00	0.00	0.62	10.79	0.00	0.00	
7-May-16	0.00	0.00	0.00	5.19	3.53	0.39	1.22	0.00	0.00	10.34	4.71	0.00	0.00	0.00	0.07	0.00	4.11	0.00	0.00	0.00	0.65	9.55	0.00	0.00	
8-May-16	0.00	0.00	0.00	5.19	3.53	0.39	1.22	0.00	0.00	10.34	4.71	0.00	0.00	0.00	0.07	0.00	4.11	0.00	0.00	0.00	0.65	9.55	0.00	0.00	
9-May-16	0.00	0.00	0.00	5.70	4.06	0.00	0.36	0.00	0.00	10.11	6.13	0.66	0.00	0.00	0.26	0.00	4.96	0.00	0.00	0.00	0.63	12.64	0.00	0.00	
10-May-16	0.00	0.00	0.55	7.71	5.91	0.67	0.58	0.00	0.00	15.42	7.05	2.50	0.00	0.00	0.51	0.17	5.37	0.00	0.00	0.00	0.50	16.10	0.00	0.00	
11-May-16	0.00	0.00	2.76	5.11	3.19	0.00	0.66	0.00	0.00	11.72	4.35	1.40	0.00	0.00	0.00	0.00	3.41	0.00	0.00	0.00	0.57	9.72	0.00	0.00	
12-May-16	0.00	0.00	5.42	4.58	2.66	0.00	0.75	0.00	0.00	13.42	1.66	0.00	0.00	0.00	0.00	0.00	2.65	0.00	0.00	0.00	0.51	4.82	0.00	0.00	
13-May-16	0.00	0.00	3.68	6.05	4.20	2.38	0.69	0.00	0.00	17.00	2.62	1.48	0.00	0.00	0.00	0.00	1.38	0.00	0.00	0.00	0.52	6.01	0.00	0.00	
14-May-16	0.00	0.00	3.12	6.18	4.18	0.00	1.04	0.00	0.00	14.53	2.28	0.00	0.00	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.64	3.88	0.00	0.00	
15-May-16	0.00	0.00	1.19	5.30	3.30	0.00	1.26	0.00	0.00	11.05	2.11	0.00	0.00	0.00	0.00	0.00	0.73	0.00	0.00	0.00	0.64	3.48	0.00	0.00	
16-May-16	0.00	0.00	2.58	3.16	1.86	0.00	1.25	0.00	0.00	8.85	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	1.40	0.00	0.00	
17-May-16	0.00	0.00	6.10	2.24	1.09	0.00	0.05	0.00	0.00	9.48	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61	1.39	0.00	0.00	0.00	
18-May-16	0.00	0.00	2.86	3.02	1.78	0.00	0.38	0.00	0.00	8.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.18	0.00	0.00	0.57	7.75	0.00	0.00	
19-May-16	0.00	0.00	1.83	2.67	1.88	0.00	0.09	0.00	0.00	6.47	0.00	0.00	0.00	0.00	0.00	0.00	0.07	6.05	0.00	0.00	0.54	6.65	0.00	0.00	
20-May-16	0.00	0.00	0.24	2.46	1.33	0.00	0.13	0.00	0.00	4.15	2.37	0.00	0.00	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.50	3.91	0.00	0.00	
21-May-16	0.00	0.00	0.89	2.03	1.20	0.00	1.72	0.00	0.00	5.85	1.63	0.00	0.00	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.36	3.03	0.00	0.00	
22-May-16	0.00	0.00	5.19	2.77	1.94	0.00	0.05	0.00	0.00	9.94	2.76	0.00	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.26	4.34	0.00	0.00	
23-May-16	0.00	0.00	6.03	4.06	3.20	0.00	0.50	0.00	0.00	13.78	4.97	0.00	0.00	0.00	0.00	0.00	1.78	0.00	0.00	0.00	0.38	7.13	0.00	0.00	
24-May-16	0.00	0.00	6.16	3.84	3.16	0.00	0.00	0.00	0.00	13.17	3.09	0.00	0.00	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.37	4.50	0.00	0.00	
25-May-16	0.00	0.00	4.28	3.55	3.06	0.00	0.00	0.00	0.00	10.89	1.48	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.42	2.14	0.00	0.00	
26-May-16	0.00	0.00	2.18	3.41	3.06	0.00	0.35	0.00	0.00	9.00	1.81	0.00	0.00	0.00	0.00	0.00	1.18	0.00	0.00	0.00	0.60	3.59	0.00	0.00	
27-May-16	0.00	0.00	3.12	4.75	4.10	0.00	0.31	0.00	0.00	12.28	2.33	0.00	0.00	0.00	0.00	0.00	1.68	0.00	0.00	0.00	0.64	4.64	0.00	0.00	
28-May-16	0.00	0.00	0.70	4.89	4.28	0.00	0.67	0.00	0.00	10.54	3.75	0.00	0.00	0.00	0.00	0.00	2.06	0.00	0.00	0.39	0.66	6.85	0.00	0.00	
29-May-16	0.00	0.00	3.80	4.20	3.48	0.84	0.36	0.00	0.00	12.68	5.74	0.00	0.00	1.63	0.68	0.00	1.90	0.00	0.00	0.00	0.71	10.65	0.00	0.00	
30-May-16	0.00	0.00	5.36	4.89	3.75	1.36	0.46	0.00	0.00	15.82	4.71	0.00	0.00	0.00	0.00	0.00	2.80	0.00	0.00	0.44	0.86	8.81	0.00	0.00	
31-May-16	0.00	0.00	5.36	7.04	5.93	0.00	0.00	0.00	0.00	18.34	2.85	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.43	0.85	4.40	0.00	0.00	
Total	0.00	0.00	85.56	140.87	100.42	9.08	16.03	0.00	0.00	351.95	101.63	9.16	0.00	0.00	4.33	1.25	0.00	64.28	13.23	0.00	1.26	17.82	212.96	0.00	0.00

Date	12.3 Import - Export of ER with WR & NER during May 2016																													
	Export of WR to ER (WR-ER)										Import of WR from ER (ER - WR)										Export of ER to NER (ER-NER)					Import of ER from NER (NER-ER)				
	WR - ER 765 kV Dharamjygarh - Ranchi D/C	WR - ER 765 kV Dharamjygarh - Jharsuguda	WR - ER 400 kV Sipat - Ranchi D/C	WR - ER 400 kV Raigarh - Sterlite	WR - ER 400 kV Raigarh - IND Bharat	WR - ER 400 kV Raigarh - Rourkela	WR - ER 400 kV Raigarh - Jharsuguda	WR - ER 220 kV Korba - Budhipadar D/C	WR - ER 220 kV Raigarh - Budhipadar	Total WR - ER	WR - ER 765 kV Dharamjygarh - Ranchi D/C	ER_WR 765 kV Dharamjygarh - Jharsuguda	ER - WR 400 kV Sipat - Ranchi D/C	ER - WR 400 kV Raigarh - Sterlite	ER_WR 400 kV Raigarh - IND Bharat	ER_WR 400 kV Raigarh - Rourkela	ER - WR 400 kV Raigarh - Jharsuguda	ER - WR 220 kV Korba - Budhipadar D/C	ER - WR 220 kV Raigarh - Budhipadar	Total ER - WR	ER - NER 132 kV Geyegghu - Salakati	ER - NER 132 kV Deothan - g-Rangia	ER - NER 400 kV Binaguri - Bongaigaon 2x2D/C	ER - NER 220 kV Birpara - Salakati D/C	Total ER - NER	ER - NER 132 kV Geyegghu - Salakati	ER - NER 132 kV Deothan - g-Rangia	NER - ER 400 kV Binaguri - Bongaigaon 2x2D/C	NER - ER 220 kV Birpara - Salakati D/C	Total NER - ER
1-May-16	3.5	0.0	7.9	2.6	2.3	2.9	3.3	3.0	0.16	25.73	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.50	0.00	0.26	8.14	0.58	8.98	0.03	0.00	0.00	0.00	0.03
2-May-16	0.9	0.0	4.6	1.2	1.0	1.3	1.4	3.1	0.00	13.47	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.53	0.00	0.27	7.94	0.52	8.74	0.11	0.00	0.00	0.00	0.11
3-May-16	0.8	0.0	5.1	1.5	1.2	1.5	1.7	3.0	0.22	14.90	0.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.45	0.00	0.37	12.10	1.06	13.53	0.11	0.00	0.00	0.00	0.11
4-May-16	0.0	0.0	3.4	0.8	0.8	0.8	1.2	2.8	0.34	10.19	1.8	12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.33	0.00	0.33	11.51	1.12	12.96	0.04	0.00	0.00	0.00	0.04
5-May-16	0.6	0.0	4.2	1.2	1.0	1.2	1.4	2.5	0.00	12.01	0.0	10.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3	10.36	0.00	0.33	12.10	1.05	13.48	0.04	0.00	0.00	0.00	0.04
6-May-16	0.0	0.0	3.4	0.7	0.8	0.6	1.1	2.2	0.00	8.87	1.3	12.9	0.0	0.0	0.0	0.0	0.0	0.0	0.6	14.77	0.00	0.38	11.11	0.88	12.37	0.07	0.00	0.00	0.00	0.07
7-May-16	0.0	0.0	2.0	0.3	0.6	0.2	0.9	2.1	0.00	6.04	3.7	12.3	0.0	0.0	0.0	0.0	0.0	0.0	0.6	16.50	0.00	0.57	11.06	0.99	12.62	0.01	0.00	0.00	0.00	0.01
8-May-16	0.0	0.0	2.9	0.1	0.1	0.0	0.1	2.0	0.00	5.20	2.2	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.6	12.73	0.03	0.53	11.74	1.10	13.40	0.00	0.00	0.00	0.00	0.00
9-May-16	0.0	0.0	3.9	0.6	0.3	0.5	0.4	2.5	0.00	8.16	0.0	11.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	11.42	0.00	0.36	11.56	1.06	12.98	0.02	0.00	0.00	0.00	0.02
10-May-16	1.1	0.0	4.7	1.6	1.3	1.7	1.9	3.2	0.49	15.99	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.06	0.00	0.50	15.54	1.30	17.34	0.06	0.00	0.00	0.00	0.06
11-May-16	2.0	0.0	5.2	1.5	1.1	1.6	1.5	3.0	0.15	16.12	0.0	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.71	0.00	0.44	14.65	1.53	16.62	0.22	0.00	0.00	0.00	0.22
12-May-16	1.3	0.0	3.1	0.9	0.2	0.8	0.2	3.3	0.75	10.56	0.0	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.46	0.00	0.55	7.50	0.76	8.80	0.01	0.00	0.00	0.00	0.01
13-May-16	1.9	0.0	3.4	1.0	0.1	1.0	0.3	3.1	0.37	11.16	0.0	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.10	0.00	0.40	0.00	0.00	0.40	0.00	0.00	1.57	0.04	1.62
14-May-16	0.0	0.0	1.6	0.0	0.0	0.0	0.0	2.4	0.00	4.01	0.3	11.9	0.0	0.5	1.2	0.7	1.8	0.0	0.1	16.58	0.00	0.28	0.00	0.00	0.28	0.07	0.00	2.87	0.21	3.16
15-May-16	0.0	0.0	0.9	0.0	0.0	0.0	0.0	1.8	0.00	2.77	1.8	15.6	0.0	0.7	0.7	1.0	1.6	0.0	0.2	21.64	0.22	0.62	3.57	0.81	5.22	0.00	0.00	0.00	0.00	0.00
16-May-16	0.0	0.0	0.1	0.0	0.0	0.0	0.0	1.5	0.00	1.60	3.5	19.4	0.0	0.6	0.6	0.8	0.9	0.0	0.1	25.86	0.37	0.78	0.00	1.01	2.17	0.00	0.00	0.04	0.00	0.04
17-May-16	0.0	0.0	0.9	0.0	0.2	0.0	0.3	1.9	0.09	3.40	3.2	16.7	0.0	0.0	0.1	0.0	0.0	0.0	0.0	20.03	0.42	1.01	0.14	0.92	2.49	0.00	0.00	0.00	0.00	0.00
18-May-16	0.0	0.0	2.0	0.5	0.2	0.4	0.3	2.2	0.46	6.11	1.4	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.00	0.27	0.87	3.66	0.71	5.50	0.00	0.00	0.00	0.00	0.00
19-May-16	0.7	0.0	2.7	0.9	0.5	0.8	0.7	2.7	0.74	9.74	0.0	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.44	0.21	0.69	11.17	1.42	13.49	0.00	0.00	0.00	0.00	0.00
20-May-16	0.8	0.0	3.1	0.4	0.0	0.2	0.0	2.1	0.44	7.05	0.0	16.4	0.0	0.2	0.2	0.0	0.4	0.0	0.0	17.00	0.20	0.73	8.25	1.48	10.66	0.00	0.00	0.00	0.00	0.00
21-May-16	0.5	0.0	3.9	0.0	0.3	0.7	0.6	1.9	1.26	9.34	0.0	15.2	0.0	1.2	0.0	0.0	0.0	0.0	0.0	16.40	0.28	0.65	6.11	1.33	8.37	0.00	0.00	0.00	0.00	0.00
22-May-16	1.0	0.0	5.1	1.0	0.9	1.1	1.2	2.4	1.34	13.89	0.0	13.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.85	0.13	0.53	1.86	0.74	3.27	0.00	0.00	0.00	0.00	0.00
23-May-16	2.3	0.0	4.3	1.4	0.9	1.5	1.2	3.0	1.27	15.85	0.0	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.60	0.07	0.64	4.45	0.93	6.08	0.00	0.00	0.00	0.00	0.00
24-May-16	0.0	0.0	0.8	0.1	0.0	0.0	0.0	2.9	1.09	5.01	1.7	19.3	0.0	0.0	0.4	0.0	0.6	0.0	0.0	22.04	0.01	0.63	0.00	0.31	0.94	0.00	0.00	0.21	0.00	0.21
25-May-16	0.4	0.0	2.5	0.5	0.0	0.5	0.0	3.3	1.21	8.38	0.0	17.4	0.0	0.0	0.1	0.0	0.2	0.0	0.0	17.62	0.00	0.56	0.00	0.19	0.74	0.00	0.00	2.38	0.00	2.38
26-May-16	1.0	0.0	3.8	0.7	0.0	0.6	0.0	2.9	0.80	9.87	0.0	16.2	0.0	0.0	0.0	0.0	0.1	0.0	0.0	16.37	0.16	0.81	5.69	1.29	7.95	0.00	0.00	0.00	0.00	0.00
27-May-16	0.0	0.0	1.9	0.0	0.0	0.0	0.0	2.2	0.39	4.48	1.6	18.5	0.0	0.1	0.8	0.4	1.1	0.0	0.0	22.50	0.13	0.68	7.18	1.23	9.21	0.00	0.00	0.00	0.00	0.00
28-May-16	0.0	0.0	2.7	0.0	0.0	0.0	0.0	2.5	0.00	5.18	2.6	14.6	0.0	0.4	0.5	0.3	0.7	0.0	0.0	19.00	0.04	0.47	3.97	0.75	5.22	0.00	0.00	0.00	0.00	0.00
29-May-16	0.0	0.0	3.6	0.0	0.0	0.1	0.0	1.8	0.00	5.52	0.5	11.0	0.0	0.1	0.3	0.0	0.5	0.0	0.9	13.32	0.27	0.75	5.73	1.21	7.96	0.00	0.00	0.00	0.00	0.00
30-May-16	0.1	0.0	3.5	0.0	0.0	0.0	0.0	0.5	0.00	4.12	0.0	16.9	0.0	0.4	0.4	0.0	0.6	0.0	2.1	20.59	0.31	0.88	6.42	1.30	8.91	0.00	0.00	0.00	0.00	0.00
31-May-16	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.8	0.00	2.61	2.5	21.9	0.0	0.9	0.2	0.2	0.4	0.0	1.9	28.01	0.26	0.84	3.45	0.86	5.41	0.00	0.00	0.00	0.00	0.00
Total	18.86	0.00	99.07	19.53	13.84	20.19	19.59	74.65	11.58	277.32	28.02	392.09	0.00	4.96	5.62	3.58	8.89	0.00	7.63	450.79	3.38	17.69	206.60	28.43	256.10	0.79	0.00	7.07	0.26	8.11

Date	12.4 Import and Export of SR with ER & WR during May 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-May-16	9.4	43.8	53.24	0.00	0.00	0.00	19.35	37.13	1.71	58.18	0.00	0.00	0.02	0.02
2-May-16	7.4	41.8	49.18	0.00	0.00	0.00	22.73	39.83	0.91	63.47	0.00	0.00	0.24	0.24
3-May-16	6.9	47.6	54.44	0.00	0.00	0.00	17.28	41.90	2.19	61.37	0.00	0.00	0.09	0.09
4-May-16	7.1	46.2	53.35	0.00	0.00	0.00	14.76	42.58	3.65	60.99	0.00	0.00	0.00	0.00
5-May-16	9.0	47.6	56.53	0.00	0.00	0.00	9.68	36.96	2.15	48.79	0.00	0.00	0.11	0.11
6-May-16	9.5	37.9	47.37	0.00	0.00	0.00	15.83	32.75	1.60	50.17	0.00	0.00	0.19	0.19
7-May-16	9.9	44.4	54.35	0.00	0.00	0.00	21.32	35.78	2.49	59.59	0.00	0.00	0.00	0.00
8-May-16	10.0	41.3	51.30	0.00	0.00	0.00	23.70	33.68	2.25	59.63	0.00	0.00	0.11	0.11
9-May-16	10.9	45.8	56.66	0.00	0.00	0.00	23.72	45.25	3.35	72.32	0.00	0.00	0.06	0.06
10-May-16	16.4	46.1	62.53	0.00	0.00	0.00	16.98	47.41	3.00	67.39	0.00	0.00	0.00	0.00
11-May-16	12.5	42.6	55.10	0.00	0.00	0.00	22.32	40.99	2.32	65.63	0.00	0.00	0.04	0.04
12-May-16	12.3	45.3	57.70	0.00	0.00	0.00	23.71	43.20	2.28	69.19	0.00	0.00	0.02	0.02
13-May-16	14.0	47.6	61.60	0.00	0.00	0.00	23.71	46.71	2.02	72.44	0.00	0.00	0.19	0.19
14-May-16	15.5	42.0	57.51	0.00	0.00	0.00	23.67	42.90	2.21	68.78	0.00	0.00	0.01	0.01
15-May-16	15.7	36.3	52.06	0.00	0.00	0.00	23.36	37.51	0.90	61.78	0.00	0.00	0.19	0.19
16-May-16	12.7	38.8	51.51	0.00	0.00	0.00	23.69	29.00	0.57	53.26	0.00	0.00	0.49	0.49
17-May-16	14.3	40.6	54.91	0.00	0.00	0.00	19.52	30.08	0.31	49.91	0.00	0.00	1.30	1.30
18-May-16	12.4	35.8	48.17	0.00	0.00	0.00	20.26	20.80	0.02	41.08	0.00	0.10	3.38	3.48
19-May-16	12.0	42.6	54.58	0.00	0.00	0.00	15.36	27.80	0.79	43.96	0.00	4.37	2.57	6.94
20-May-16	7.4	35.3	42.74	0.00	0.00	0.00	16.57	27.80	1.72	46.10	0.00	0.00	0.67	0.67
21-May-16	8.2	42.3	50.54	0.00	0.00	0.00	23.36	42.87	2.66	68.90	0.00	0.00	0.14	0.14
22-May-16	12.1	33.3	45.34	0.00	0.00	0.00	22.88	40.93	2.26	66.07	0.00	0.00	0.02	0.02
23-May-16	10.0	41.5	51.50	0.00	0.00	0.00	23.73	41.06	3.06	67.84	0.00	0.00	0.11	0.11
24-May-16	13.2	44.6	57.85	0.00	0.00	0.00	23.48	39.27	1.35	64.10	0.00	0.00	0.34	0.34
25-May-16	11.7	42.5	54.29	0.00	0.00	0.00	21.47	40.02	1.26	62.75	0.00	0.00	0.18	0.18
26-May-16	9.7	40.7	50.38	0.00	0.00	0.00	21.87	34.50	1.21	57.57	0.00	0.00	0.12	0.12
27-May-16	11.7	43.1	54.78	0.00	0.00	0.00	22.41	35.03	0.17	57.61	0.00	0.00	0.00	0.00
28-May-16	14.7	43.7	58.41	0.00	0.00	0.00	22.05	36.87	0.21	59.12	0.00	0.00	0.00	0.00
29-May-16	14.9	33.8	48.69	0.00	0.00	0.00	17.38	39.90	0.17	57.45	0.00	0.00	0.00	0.00
30-May-16	13.8	38.0	51.79	0.00	0.00	0.00	21.09	40.71	1.41	63.21	0.00	0.00	0.01	0.01
31-May-16	10.4	43.2	53.61	0.00	0.00	0.00	23.62	33.87	0.73	58.22	0.00	0.00	0.48	0.48
Total	355.83	1296.20	1652.03	0.00	0.00	0.00	640.84	1165.09	50.95	1856.88	0.00	4.47	11.09	15.56

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

अप्रैल 2016 से मार्च 2017 April 2016 to March 2017

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 2016 APR'16	150.05	-196.98	-361.40
मई 2016 MAY'16	255.38	-171.18	-373.86
कुल Total	405.42	-368.15	-735.26

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

द्विपक्षीय एसटीओए BILATERAL SHORT TERM OPEN ACCESS

मई 2016 May 16			April-May'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	468	1832	954	2672
प.क्षे. WR	444	1224	1085	2232
द.क्षे. SR	298	1007	586	2190
पू.क्षे. ER	190	1150	397	2570
पूर्वोत्तर क्षे. NER	60	126	113	248
कुल TOTAL	1460	5339	3135	9912

एसटीओए SHORT TERM OPEN ACCESS

माह MONTH	सामूहिक एसटीओए Collective STOA		द्विपक्षीय एसटीओए Bilateral STOA	
	क्र्रेताओं / विक्रेताओं की सं. NO. of Buyers/Sellers	अनुमोदित ऊर्जा (मि.यु.) Approved Energy (MU)	क्र्रेताओं / विक्रेताओं की सं. NO. of Buyers/Sellers	अनुमोदित ऊर्जा (मि.यु.) Approved Energy (MU)
अप्रैल 2016 Apr'16	2923	3501	1675	4573
मई 2016 May'16	2822	2936	1460	5339
कुल TOTAL	5745	6437	3135	9912

मासिक डी एस एम बिलिंग का ब्योरा 2016-17
MONTHLY DSM BILLING DETAILS 2016-17

अनंतिम आकडे
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
02.05.16 to 08.05.16	28.26	14.30	5.31	22.94	14.14
09.05.16 to 15.05.16	31.27	17.15	6.61	17.31	10.95
16.05.16 to 22.05.16	32.94	13.87	3.59	16.38	17.15
23.05.16 to 29.05.16	37.22	22.35	6.41	12.77	12.61

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 विलिपय - माह मई 2016
EXCHANGES THROUGH POWER EXCHANGES - May 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	5.00	220.78
2	हरियाणा Haryana		68.55	225.45
3	राजस्थान Rajasthan		62.14	378.20
4	दिल्ली Delhi		104.16	76.38
5	उत्तर प्रदेश Uttar Pradesh		1.60	20.96
6	उत्तराखंड Uttarakhand		0.00	139.73
7	हिमाचल प्रदेश Himachal Pradesh		346.33	12.45
8	जम्मू और कश्मीर J & K		30.96	10.63
9	केंद्र शासित चंडीगढ़ UT Chandigarh		0.03	8.96
10	ए डी हाइड्रो AD Hydro		73.61	0.00
11	करचम वागत् KW		242.24	0.00
12	श्री सीमेंट Shree Cement		30.90	0.00
13	नाथपा झाकरी Nathpa Jhakri		20.54	0.00
14	बैरासल Baira Siul HEP(BS0)		2.09	0.00
15	चमेरा -1 Chamera-I HEP(CM1)		5.15	0.00
16	चमेरा -2 Chamera-II HEP(CM2)		6.76	0.00
17	धौलीगंगा Dhauliganga HEP(DG0)		2.81	0.00
18	दुलहस्ती Dulahasti HEP(DU0)		9.11	0.00
19	सलाल Salal HEP(SL0)		12.19	0.00
20	सेवा -2 Sewa-II NHPC(SW2)		1.38	0.00
21	टनकपुर Tanakpur HEP(TP0)		0.37	0.00
22	उरी Uri HEP(UR0)		9.73	0.00
23	लांको बुधिल LANCO Budhil		3.97	0.00
24	चमेरा-3 chamera 3		4.55	0.00
25	अदानी एचवीडीसी ADANI HVDC(NORGU0)		0.00	0.00
26	मलाना MALANA		3.79	0.00
27	उरी-II Uri-II HEP(UR2)		5.81	0.00
28	पार्वति-III Parbati-II		1.49	0.00
29	मध्य प्रदेश MP	पश्चिमी क्षेत्र WR	164.66	58.50
30	महाराष्ट्र Maharashtra		9.96	106.56
31	गुजरात Gujarat		50.07	433.55
32	छत्तीसगढ़ Chattisgarh		74.47	16.50
33	गोवा Goa		1.78	12.08
34	दमन और दीव Daman and Diu		0.00	38.27
35	दादरा और नगर हवेली Dadra & Nagar Haveli		0.00	42.51
36	जिंदल JD		77.47	0.00
37	लांको अमरकंटक LANCO AMK		0.00	0.00
38	आर्यन कोल ACB India Limited		41.90	0.00
39	जिंदल स्टील एंड पावर Jindal Steel and Power Ltd		17.15	0.00
40	बालको -2 Balco-II		1.19	0.00
41	स्टरलाइट Sterlite(w3rse0)		6.19	0.00
42	एमको EMCO		0.00	0.00
43	वन्दना विद्युत VANDANA VIDYUT		0.00	0.00
44	एस्सार पावर ESSAR POWER		0.60	0.00
45	एस्सार स्टील ESSAR STEEL		0.00	103.85
46	के एस के महानदी KSK Mahanadi		0.00	0.00
47	जिंदल स्टेज -II Jindal Stg-II		9.44	0.00
48	कोरबा (प.) Korba(W) Comp. Ltd.		106.53	0.00
49	डी बी पावर D B Power		148.88	0.00
50	धारीवाल Dhariwal		9.96	0.00
51	जे पी निगी Jaypee Nigire		8.64	0.00
52	जी एम आर छत्तीसगढ़ GMR Chhattisgarh		13.88	0.00
53	डी जीईएन मेगा पावर DGEN Mega Power		0.00	0.00
54	एम बी मेगा पावर MB Power		43.71	0.00
55	एपीएल मुंद्रा स्टेज-I APL Mundra Stg-I		0.84	0.00
56	एपीएल मुंद्रा स्टेज-II APL Mundra Stg-II		32.42	0.00
57	एपीएल मुंद्रा स्टेज-III APL Mundra Stg-III		26.68	0.00
58	टोरेंट सुगेन Torrent Sugan		0.00	0.00
59	मारुति कोल Maruti Coal		3.63	0.00
60	स्पेक्ट्रम Spectrum		5.24	0.00
61	झाबुआ पावर Jhabua Power		33.87	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 मई 2016
EXCHANGES THROUGH POWER EXCHANGES - May 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
62	आंध्र प्रदेश Andhra Pradesh	दक्षिणी क्षेत्र SR	8.28	129.92
63	कर्नाटक Karnataka		0.00	180.90
64	केरल Kerala		3.81	87.10
65	तमिलनाडु Tamilnadu		0.00	23.22
66	पॉण्डिचेरी Pondicherry		0.00	0.00
67	गोवा Goa		0.00	0.00
68	लाको कॉन्डोपल्ली LANCO KONDPLY		0.00	0.00
69	सिमापुरी SIMHAPURI		66.07	0.00
70	मीनाक्षी MINAXI		66.55	0.00
71	तेलंगाना TELANGANA		59.99	206.67
72	थर्मल पावर टेक Thermal Power Tech		27.24	0.00
73	कोस्टल इनरजेन Coastal Energen		13.09	0.00
74	आइ एल & एफ एस IL&FS		52.29	0.00
75	पश्चिम बंगाल West Bengal		14.56	122.81
76	उड़ीशा Odisha		31.00	15.27
77	बिहार Bihar	0.00	207.46	
78	झारखंड Jharkhand	0.00	11.32	
79	सिक्किम Sikkim	35.78	0.00	
80	दामोदर घाटी परियोजना DVC	15.37	0.00	
81	स्टरलाइट STERLITE	0.00	0.00	
82	मैथन पावर लिमिटेड Maithon P. Ltd	1.44	0.00	
83	आधुनिक पा. लिमिटेड Adhunik P.Ltd	0.00	0.00	
84	चुजाचैन Chuzachen HEP	40.10	0.00	
85	रंगित Rangit HEP	0.00	0.00	
86	तीस्ता Teesta HEP	0.00	0.00	
87	जीएमआर कमलंगा GMR Kamalanga	7.55	0.00	
88	जिदल आई पी टी एल JIPTL	345.33	0.00	
89	जोरथांग Jorethang	18.38	0.00	
90	अरुणाचल प्रदेश Arunachal Pradesh	पूर्वी क्षेत्र ER	0.00	0.18
91	असम Assam		55.43	36.98
92	मणिपुर Manipur		26.82	0.00
93	मेघालय Meghalaya		15.80	5.53
94	मिजोरम Mizoram		16.87	0.00
95	नागालैंड Nagaland		0.07	3.59
96	त्रिपुरा Tripura		37.91	0.06
97	अगरतला जीटीपीपी Agartala GTPP AGO		6.48	0.00
98	कोपिली KOPILI KP1		3.88	0.00
99	असम जीबीपीपी Assam GBPP_KTO		11.88	0.00
100	लोकटक LOKTAK		0.00	0.00
101	रंगानदी Ranganadi		7.28	0.00
102	दोयांग Doyang		0.32	0.00
103	पलाताना Palatana		0.00	0.00
104	कोपिली-II Kopili-II		0.89	0.00
105	खंडोंग Khandong	1.52	0.00	
	कुल Total		2936.37	2936.37

16. RENEWABLE ENERGY CERTIFICATE MECHANISM**MONTH:-May 2016****RE Source & Unit wise break up (01.05.2016-31.05.2016)**

Sr.No	Source Wise	Accreditation		Registration	
		Capacity (MW)	Unit	Capacity (MW)	Unit
1	Wind	117	10	71	9
2	Urban or Municipal Waste	0	0	0	0
3	Solar Thermal	0	0	0	0
4	Solar PV	25	10	19	8
5	Small Hydro	16	2	0	0
6	Others	0	0	0	0
7	Geothermal	0	0	0	0
8	Biomass	40	3	0	0
9	Bio-fuel cogeneration	24	3	13	1
	Total	222	28	103	18

RECs Issued (01.05.2016-31.05.2016)

Sr.No.	Non Solar	Solar	Total
1	561072	126505	687577

Redemption of REC ((01.05.2016-31.05.2016)

Sr.No.	Non Solar	Solar	Total
1	191267	20083	211350

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

Sr.No	Source Wise	Accreditation		Registration	
		Capacity (MW)	Unit	Capacity (MW)	Unit
1	Wind	145	13	71	9
2	Urban or Municipal Waste	0	0	0	0
3	Solar Thermal	0	0	0	0
4	Solar PV	52	20	31	13
5	Small Hydro	16	2	0	0
6	Others	0	0	0	0
7	Geothermal	0	0	0	0
8	Biomass	40	3	0	0
9	Bio-fuel cogeneration	36	5	17	2
	Total	289	43	119	24

RECs Issued (Apr-May 16)

Sr.No.	Non Solar	Solar	Total
1	794253	260447	1054700

Redemption of REC (Apr-May 16)

Sr.No.	Non Solar	Solar	Total
1	526932	51580	578512

16. RENEWABLE ENERGY CERTIFICATE MECHANISM

MONTH:-May 2016

RE Source & Unit wise break up Since Inception to May 16

Sr.No	Source Wise	Accreditation		Registration	
		Capacity (MW)	Unit	Capacity (MW)	Unit
1	Wind	2388	608	2268	593
2	Urban or Municipal Waste	8	1	0	0
3	Solar Thermal	3	1	0	0
4	Solar PV	699	341	654	321
5	Small Hydro	327	39	282	30
6	Others	2	1	2	1
7	Geothermal	0	0	0	0
8	Biomass	706	76	692	73
9	Bio-fuel cogeneration	990	113	905	104
	Total	5123	1180	4803	1122

RECs Issued since Inception to May 16

Sr.No.	Non Solar	Solar	Total
1	28150442	4479681	32630123

Redemption of REC since Inception to May 16

Sr.No.	Non Solar	Solar	Total
1	14603972	959852	15563824

REC Closing balance as on 31.05.2016

Sr.No.	Non Solar	Solar	Total
1	13546470	3519829	17066299

17. Major Grid Events for May 2016

S.No.	Region	Name of Elements (Tripped/Manually opened)	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	NER	132 kV Silchar- Dullavcherra line	POWERGRID & AEGCL	01-05-2016	01:24	01-05-2016	02:07	00:43	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 01:24 Hrs on 01.05.16 , 132 kV Silchar- Dullavcherra line tripped. Due to tripping of these elements, Dullavcherra area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.		12	GD-I
2	NER	132 kV Dimapur (PG) - Kohima	POWERGRID & DoP Nagaland	01-05-2016	00:58	01-05-2016	01:49	00:51	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 00:58 Hrs on 01.05.16 ,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 due to no source in this area.		24	GD-I
3	NR	1) 400/220kV Azamgarh 315MVA ICT-1 2) 400/220kV Azamgarh 315MVA ICT-2	UP	01-05-2016	09:46	01-05-2016	10:34	00:48	Multiple elements tripped at 400/220kV Azamgarh (UP).		400	GD-I
4	NR	1) 400kV Agra-Sikar ckt2 2) 400kV Agra-Bassi ckt 1	POWERGRID	01-05-2016	12:48	01-05-2016	13:01	00:13	Multiple elements tripped at 400kV Agra (PG). B-phase to earth fault reported.			GI-II
5	WR	Tripping of 1. 400 kV JP Nigrie-Satna 1 2. 400 kV JP Nigrie-Satna 2 3. Unit 1 4. Unit 2 ckt II tripped on R-Ph fault and ckt I tripped on DT leading to blackout at JP-Nigrie	JP Nigrie	01-05-2016	12:24	01-05-2016	12:55	00:31	At 12:24 Hrs, 400 kV JP-Nigrie-Satna 1 circuit has experienced R phase to earth fault near to Satna end. At the same time, LBB protection of the Tie Circuit breaker of JP-NigrieSatna 1 & 2 at JP Nigrie end has operated resulting in tripping of Main Breakers and sent the direct trip code to remote end Satna sub-station. This led to tripping of both lines from Satna end. With the tripping of these lines, the JP Nigrie has suffered complete blackout of substation as it is connected to Indian grid via these two lines. With these, Unit 1 and 2 at JP Nigrie also tripped causing generation loss of 1092 MW	1092		GD-I
6	NR	1) 400/220kV Muzaffarnagar 315MVA ICT-1 2) 400/220kV Muzaffarnagar 315MVA ICT-2 3) 400/220kV Muzaffarnagar 315MVA ICT-3	UP	01-05-2016	12:24	01-05-2016	14:50	02:26	400/220kV Muzaffarnagar 315 MVA ICT 2 tripped due to bursting of Y phase LV side bushing and ICT 1&3 tripped on overloading.		550	GD-I
7	NER	132 kV Agartala - Dhalabil (Khowai) line, 132 kV Ambasa - Teliamura line, 132 kV AGTPP - Kumarghat line and 125 MVA, 400/132 kV ICT at Palatana & 132 kV AGTPP - Agartala I & II lines	TSECL, NEEPC O,OTPC and POWERGRID	01-05-2016	20:13	01-05-2016	20:25	00:12	Part of Tripura system, Part of Bangladesh system and AGTPP system were connected with rest of NER Grid through 132 kV Agartala - Dhalabil (Khowai) line, 132 kV Ambasa - Teliamura line, 132 kV AGTPP - Kumarghat line and 125 MVA, 400/132 kV ICT at Palatana (132 kV Udaipur - Palatana line & 132 kV Surjamaninagar-Comilla II line was under shutdown from 13:55 Hrs on 01.05.16 & from 16:29 Hrs on 01.05.16) respectively. At 19:54 Hrs on 01.05.16, 132 kV Agartala - Dhalabil (Khowai) line & 132 kV Ambasa - Teliamura line tripped. Due to tripping of these elements, the network got reduced. At 20:07 Hrs on 01.05.16, 132 kV AGTPP - Agartala I & II lines, 132 kV AGTPP - Kumarghat line along with AGTPP U I, II & III tripped. At 20:13:50, 125 MVA 400/132 kV ICT at Palatana tripped resulted in loss of power supply to gas boost compressor and subsequent tripping of Palatana GTG I and STG I units. Due to tripping of these elements, Part of Tripura system, Part of Bangladesh system (Comilla area) and AGTPP system were separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.	161	230	GD-II
8	NER	132 kV Dimapur (PG) - Kohima	POWERGRID & DoP Nagaland	01-05-2016	21:55	01-05-2016	22:53	00:58	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 21:55 Hrs on 01.05.16 ,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 due to load generation mismatch.	0	13	GD-I
9	NER	132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines,132 kV NEHU - NEIGRIHMS & 132 kV Mustem-NEHU line, Leshka U 2	MePTCL/ POWERGRID & MePGCL	01-05-2016	21:42	01-05-2016	21:51	00:09	Khliehriat area of Meghalaya was connected with rest of NER Grid through 132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines and 2 x 160 MVA, 220/132 kV ICT I&II at Byrnihat (132 kV Panchgram-Lumnsong line kept open for system requirement). At 21:42 Hrs on 01.05.16 ,132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines,132 kV NEHU - NEIGRIHMS & 132 kV Mustem-NEHU line tripped. Due to tripping of these elements, Khliehriat area was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.	42	12	GD-I

S.No.	Region	Name of Elements (Tripped/Manually opened)	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					
10	NER	132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines, 132 kV Khliehriat (MePTCL) - NEIGRIHMS & 132 kV Mustem-Khliehriat line, Leshka U 2	MePTCL/ POWERGRID & MePGCL	01-05-2016	22:48	01-05-2016	22:50	00:02	Khliehriat area of Meghalaya was connected with rest of NER Grid through 132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines and 2 x 160 MVA, 220/132 kV ICT I&II at Byrnihat (132 kV Panchgram-Lumnsong line kept open for system requirement). At 22:48 Hrs on 01.05.16, 132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines, 132 kV Khliehriat (MePTCL) - NEIGRIHMS & 132 kV Mustem-Khliehriat line tripped. Due to tripping of these elements, Khliehriat area was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.	42	20	GD-I
11	NER	132 kV Aizwal - Zuangtui	POWERGRID	01-05-2016	20:27	01-05-2016	21:14	00:47	Zuangtui area of Mizoram was connected with rest of NER Grid through 132 kV Aizawl-Zuangtui line. At 20:27 Hrs on 01.05.16, 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.		48	GD-I
12	NER	132 kV Balipara - Khupi	NEEPCO	02-05-2016	08:05	02-05-2016	19:53	11:48	Khupi area of Arunachal Pradesh was connected with rest of NER Grid through 132 kV Balipara- Khupi line. At 08:05 Hrs on 02.05.16, 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.		23	GD-I
13	NER	132 kV Aizwal - Zuangtui	POWERGRID	02-05-2016	12:08	02-05-2016	14:04	01:56	Zuangtui area of Mizoram was connected with rest of NER Grid through 132 kV Aizawl-Zuangtui line. At 12:08 Hrs on 02.05.16, 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.		16	GD-I
14	NR	1) 400kV Fatehpur-Mainpuri ckt-2 2) 220kV Fatehpur(PG)-Naubasta(UP) ckt-1	POWERGRID/ UP	02-05-2016	12:48	02-05-2016	13:28	00:40	Multiple elements tripped at 400/220kV Fatehpur (PG). B-phase to earth fault reported.			GI-II
15	NER	,132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines, Leshka U 2	MePTCL/ POWERGRID & MePGCL	02-05-2016	13:07	02-05-2016	13:09	00:02	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 Khliehriat-NEIGRIHMS line & 132 kV Khliehriat -Mustem line were kept open for system requirement). At 13:07 Hrs on 02.05.16, 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 subsequently collapsed due to load generation mismatch.	42	21	GD-I
16	NER	AGTPP-Agartala I & II lines & 132 kV AGTPP-Kumarghat line and AGTPP U 2,3,4 & STG-II	NEEPCO, POWERID& TSECL	02-05-2016	15:43	02-05-2016	15:50	00:07	AGTPP Power Station was connected with rest of NER Grid through 132 kV AGTPP-Agartala I & II lines & 132 kV AGTPP-Kumarghat line. At 15:43 Hrs on 02.05.16, 132 kV AGTPP-Agartala I & II lines & 132 kV AGTPP-Kumarghat line tripped. Due to evacuation problem, all running units of AGTPP tripped.	73		GD-I
17	NR	1) 400/220kV Muzaffarnagar 315MVA ICT-1 2) 400/220kV Muzaffarnagar 315MVA ICT-3	UP	02-05-2016	16:04	02-05-2016	16:42	00:38	400/220kV Muzaffarnagar 315MVA ICT 1&3 tripped on overcurrent.		600	GD-I
18	NR	1) 400kV Mundka(DTL)-Jhajjar(APCPL) ckt 1 2) 400kV Mundka(DTL)-Jhajjar(APCPL) ckt 2	APCPL/Delhi	02-05-2016	16:54	02-05-2016	18:02	01:08	400kV Mundka(DTL)-Jhajjar(APCPL) D/C tripped. Distance protection operated.			GI-II
19	NR	1) 132kV Hiranagar-Sewa II ckt-1 2) 132kV Hiranagar-Sewa II ckt-2 3) 132kV Mahanpur (J&K)-Sewa II (NHPC) 4) 132kV Kathua (JK)-Sewa II (NHPC)	NHPC/J&K	03-05-2016	18:03	03-05-2016	18:40	00:37	Multiple elements tripped at 132kV Sewa-II HEP. Sudden jerk observed.	120		GD-I
20	WR	Tripping of 1. 400 kV Birsingpur-Katni-I 2. 400 kV Birsingpur-Katni-II 3. 400 kV Damoh-Katni-I tripped on O/V	PGCIL/ MPPGCL/ MPPTCL	03-05-2016	18:11	03-05-2016	19:07	00:56	Due to High voltage scenaripon in Birsingpur and Katni, 400 kV Birsingpur-Katni D/C and 400 kV Damoh-Katni 1 circuit tripped on overvoltage.			GI-II
21	WR	Tripping of 1. 400 kV Jabalpur-Jabalpur(PS)-I 2. 400 kV Jabalpur-Jabalpur(PS)-II 3. 400 kV Jabalpur-Itarsi-IV ckt I & II tripped on B-Ph fault and ckt III tripped on R-Ph fault.	PGCIL	03-05-2016	19:22	03-05-2016	20:14	00:52	Due to Single phase to earth fault, 400 kV Jabalpur-Jabalpur PS D/C and Jabalpur-Itarsi 4 circuit Tripped.			GI-II

S.No.	Region	Name of Elements (Tripped/Manually opened)	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					
22	WR	Tripping of 1. 400 kV JP Nigrie-Satna 1 2. 400 kV JP Nigrie-Satna 2 3. Unit 1 4. Unit 2 ckt II tripped on R-Ph fault and ckt I tripped on DT leading to blackout at JP-Nigrie	JP Nigrie	03-05-2016	21:07	03-05-2016	21:09	00:02	R phase to earth fault occurred 400 kV JP Nigrie –Satna 2 circuit. Both ends have issued the single phase trip for A/R. With this the flow in other circuit has increased and from Satna end the Zone 3 has picked up. After 1 second the circuit 1 got tripped from Satna end on Zone 3 protection. While A/R operated successfully at JP Nigrie end after 1.2 second while no reclosure occurred at Satna end. With this generator at JP Nigrie was connected with only two phases with the grid resulting in power swing and after 300 ms fault reappeared and circuit tripped. With tripping of both lines, JP Nigrie generator isolated from the system and tripped causing loss of 1211 MW of generation.	1211		GD-I
23	ER	1)220 kV Purnea(PG)- Madehepura(BSEB)-II 2)220 kv Purnea(PG)- Madehepura(BSEB)-I 3)132 KV Madhepura – Supol D/C 4)132 KV Madhepura – Sharsha S/C 5)132 KV Purnea(BSEB)-Forbisganj	BSEB	04-05-2016	06:08	04-05-2016	06:35	00:27	Due to disturbance in Purnea and Madehpura area of Bihar, load loss observed in Nepal.132 KV Purnea(BSEB)-Forbisganj normalized & power extended to Nepal through -132 KV Purnea(BSEB)-Forbisganj-Kataiya-Nepal(Rajbirat).		110	GD-I
24	WR	Tripping of 1. 400/220 kV ICT Cheggaon 2. 220 Cheggaon-OSP 1 3. 220 kV Cheggaon-Nepanagar 4. 220 kV Cheggaon-Nimrani D/C 5. 220 kV Cheggaon-Shingaji 1 6. 220/132 kV ICT 1 Cheggaon Due to B phase CT bursting of 220/132 kV ICT 1 cauding bus fault on Bus 1 at Cheggaon.	MPPTCL	04-05-2016	11:43	04-05-2016	12:23	00:40	At 11:43 Hrs, due to bursting of B Phase CT of 220/132 kV, 160 MVA ICT 1 at 400/220/132 kV Cheggaon Sub-station Bus fault occurred on 220 kV bus 1. With this it's Bus Bar protection operated resulting in tripping of feeders connected to 220 kV Bus 1. During the event 50 MW load loss occurred at Cheggaon with energy unserved quantum of 22.5 MWhr.		50	GI-I
25	WR	Tripping of 1. 400 kV Bhadrawati-Ramagundam 1 & 2 on Fault 2. HVDC Bhadrawati Pole 1 & 2 Blocking due to loss of above lines	PGCIL/NTPC	04-05-2016	19:26	05-05-2016	02:59	07:33	At 19:16 Hrs, B Phase to Earth fault occurred in 400 kV Bhadrawati-Ramagundam 1 and it auto reclosed at Bhadrawati end but did not auto-reclose at Ramagundam end. Within 10 seconds the line tripped from Bhadrawati end also due to direct trip received from Ramagundam end. At 19:26 Hrs, 400 kV Bhadrawati-Ramagundam 2 tripped on B phase to earth fault. Subsequently, due to AC under voltage on South Bus, both the Poles tripped on "GROUND FAULT" & "DC>AC" alarms. This led to increase in power flow on AC interconnection of Southern grid i.e. 765 kV Solapur-Raichur 1 & 2 and 400 kV Kolhapur-Narendra D/C. However there was no load/generation loss and SPS operation.			GI-II
26	SR	HVDC BHADRAVATI POLE 1	Powergrid	04-05-2016	19:27	05-05-2016	04:40	09:13	HVDC Bhadrawati Pole-1&2 got blocked due to loss of south bus voltage due to tripping of 400kV Ramagundam-Chandrapur lines.			GI-II
27	SR	HVDC BHADRAVATI POLE 2	Powergrid	04-05-2016	19:27	05-05-2016	03:39	08:12	HVDC Bhadrawati Pole-1&2 got blocked due to loss of south bus voltage due to tripping of 400kV Ramagundam-Chandrapur lines.			GI-II
28	NR	1) 400/220kV G.Noida 315MVA ICT 2 2) 400/220kV G.Noida 315MVA ICT 3	UP	05-05-2016	02:50	05-05-2016	05:00	02:10	Multiple elements tripped at 400/220kV G.Noida. Distance protection operated.			GI-II
29	NER	132 kv Khliehriat (PG)-Khliehriat (MePTCL) I & II lines & Leshka U 1&2	MePTCL/ POWERGRID & MePGCL	05-05-2016	10:00	05-05-2016	10:07	00:07	Khliehriat area of Meghalaya was connected with rest of NER Grid through 132 kv Khliehriat (PG)-Khliehriat (MePTCL) I & II lines. (132 kv Panchgram-Lumsnong line, 132 kv Umiam Stg I-Umiam line & 132 kv NEHU-Mawlai line were kept open for system requirement). At 10:00 Hrs on 05.05.16,132 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 subsequently collapsed due to load generation	41	31	GD-I
30	NER	132 kv Ranganadi - Lekhi	POWERGRID &DoP,AP	05-05-2016	10:27	05-05-2016	10:34	00:07	Lekhi area & Capital area of Arunachal Pradesh and Gohpur Area of Assam were connected with rest of NER Grid through 132 kv Ranganadi-Lekhi line (Bus Coupler CB of Gohpur kept open for system requirement). At 10:27 Hrs on 05.05.16 ,132 kv Ranganadi-Nirjuli line tripped. Due to tripping of this element, Lekhi area & Capital area & Gohpur area were separated from rest of NER Grid and subsequently collapsed due to no source in this area.		38	GD-I
31	NER	132 kv Dimapur (PG) - Kohima	POWERGRID & DoP Nagaland	05-05-2016	11:35	05-05-2016	11:44	00:09	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 11:35 Hrs on 05.05.16, 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 due to no source in this area.		12	GD-I
32	NR	1) 400kV Agra-Sikar ckt2 2) 800kV Agra-Biswanath Cherialli HVDC pole-1	POWERGRID	05-05-2016	12:53	05-05-2016	13:46	00:53	400kV Agra(PG)-Sikar(PG) ckt 2 tripped on phase to earth fault. 800kV Agra-Biswanath Cherialli HVDC pole-1 also tripped along with sikar-II line.			GI-II

S.No.	Region	Name of Elements (Tripped/Manually opened)	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				
33	NR	1) 400kV Heerapura-Hindaun II 2) 400kV Bassi(PG)-Heerapura(RVPLN) 3) 400/220kV Heerapura ICT-3 4) 400kV Heerapura-Merta	Rajasthan	05-05-2016	17:05	05-05-2016	19:06	02:01	Multiple elements at 400/220kV Heerapura (RVPLN) tripped on busbar protection operation at Heerapura station due to earth wire broken on Heerapura-Bassi line.			GI-II
34	WR	Tripping of 1. 400 kV Mauda-Wardha-I 2.400 kV Mauda-Wardha-II 3. Unit 1 4. Unit 2 ckt II tripped on B-Ph fault at 18:53 Hrs and ckt-I tripped on R Phase fault at 19:01 Hrs leading to blackout at Mauda.	NTPC	05-05-2016	19:00	05-05-2016	19:26	00:26	Mouda Generating plant got blackout due to loss of evacuation lines at 19:00 Hrs on 5 May 2016.	555		GD-I
35	WR	Tripping of 1. 400 kV Bus-I 2. 400 kV Bus-II 3. 400 kV BR due to spurious bus bar protection at Champa	PGCIL	06-05-2015	10:51	06-05-2015	12:11	01:20	Due to Spurious command , the bus bar protection of 400 kV Bus at Champa PS operated causing tripping of both bus along with 765/400 kV ICTs			GI-II
36	NR	1) 220kV BTPS-Mehraulii Ckt-II 2) 220kV BTPS-Sarita Vihar Ckt-I 3) 220kV BTPS-Sarita Vihar Ckt-2 4) 220/66kV 100MVA Tr-I at Park Street	Delhi	06-05-2016	11:27	06-05-2016	11:37	00:10	Multiple elements tripped at 220kV BTPS. Distance protection operated.	207		GD-I
37	ER	1) 400KV Meeramunadali-Mendhasal 2) 400KV New Dubri-Mendhasal 3) 400KV Baripada-Mendhasal 4) 315MVA 400/220 ICT- I & II at Mendasal	OPTCL	06-05-2016	14:13	06-05-2016	15:04	00:51	400KV Meramunadali-Mendhasal tripped on B-N fault along with the mentioned elements which tripped from Mendhasal end.This resulted into load loss in Chandaka, Bhubaneswar Nimpara & Puri area.		500	GD-I
38	WR	Tripping of 1. 765 kV Wardha-Aurangabad 1 2. 765 kV Wardha-Aurangabad 2 3. 765 kV Wardha-Aurangabad 4	PGCIL	06-05-2016	18:32	06-05-2016	18:37	00:05	At 18:01 hrs, 765 kV Wardha-Aurangabad 1 tripped on Y-B phase to earth fault. After this at 18:18 hrs, 765 kV Wardha-Aurangabad 2 also tripped on B Phase to earth fault. During this period the 765 kV Wardha-Aurangabad 3 was out for controlling high voltage. At 18:32 Hrs, while attempting the trial charging of 765 kV Wardha-Aurangabad 1, 765 kV Wardha-Aurangabad 4 circuit also got tripped from Aurangabad end. With this all four lines between 765 kV Wardha and 765 kV Aurangabad were not in service resulting in rush of power on the parallel 400 kV circuits. At 18:37 Hrs, the circuit breaker at Aurangabad end was closed by the operator and the circuit came into service. After this circuit 3 was taken back in service at 19:29 Hrs. However, 765 kV AurangabadWardha 1 & 2 could not hold and patrolling instruction were given. During the event, there was no load/generation			GI-II
39	WR	Tripping of 220 kV Bus 2 and connected elements at 220 kV Suva Sub-station.	GETCO	07-05-2016	10:55	07-05-2016	11:20	00:25	The outage of 220 KV Suva - China Steel line No. 1 was taken to attend bus - 1 isolator by OEM (R-ph isolator had remained in 'ON' position during opening operation of isolator). At 10:55 Hrs, earth switch got connected inadvertently while checking operation of bus isolators by OEM. it led to 220 KV Bus - 2 fault. All elements connected to 220 KV Bus - 2 (Kosamba line, DGEN line, GNFC line No. 2,China Steel line No. 2, 220/66 KV, 100 MVA Trf No. 2) and 220 KV B/C tripped. However, there was no generation / load loss.			GI-I
40	NR	1) 220kV Dhauliganga(NHPC)-Pithorgarh(PG) 2) 220kV Bareilly(UP)-Dhaultiganga(NHPC)	POWERGRID/ NHPC/UP	08-05-2016	13:22	08-05-2016	13:51	00:29	Multiple elements tripped at 220kV Dhaultiganga (NHPC). 220kV Dhaultiganga(NHPC)-Pithorgarh(PG) tripped on DT receipt at Pithorgarh(PG) end.	90		GD-I
41	NER	400 kV Ranganadi-Biswanath Charali I line& Ranganadi U 1	POWERGRID& NEEPCO	09-05-2016	18:17	09-05-2016	18:27	00:10	Ziro area & Lekhi area of Arunachal Pradesh and part of Gohpur area of Assam were connected with rest of NER Grid through 400 kV Ranganadi-Biswanath Charali I line(Bus Coupler CB of Gohpur kept open for system requirement ,400 kV Ranganadi-Biswanath Charali II was under planned shutdown from 07:50 Hrs on 09.05.16 & 400 kV Balipara - Biswanath Charali I kept open on over voltage). At 18:17 Hrs on 09.05.2016, 400 kV Ranganadi-Biswanath Charali I line got tripped. Due to tripping of 400 kV Ranganadi-Biswanath Charali I line, Ziro area & Lekhi area of Arunachal Pradesh and part of Gohpur area of Assam were separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.	104	79	GD-I

S.No.	Region	Name of Elements (Tripped/Manually opened)	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					
42	NER	132 kV Ranganadi-Lekhi line	POWERGRID &DoP,AP	10-05-2016	06:46	10-05-2016	07:36	00:50	Lekhi area & Capital area of Arunachal Pradesh and part of Gohpur area of Assam were connected with rest of NER Grid through 132 kV Ranganadi-Lekhi line (Bus Coupler CB of Gohpur kept open for system requirement). At 06:46 Hrs on 10.05.16, 132 kV Ranganadi-Lekhi line tripped. Due to tripping of this element, Lekhi area & Capital area & part of Gohpur area were separated from rest of NER Grid and subsequently collapsed due to no source in this area.		58	GD-I
43	NER	132 kV Aizwal - Zuangtui	POWERGRID	10-05-2016	08:40	10-05-2016	09:02	00:22	Zuangtui area of Mizoram was connected with rest of NER Grid through 132 kV Aizwal-Zuangtui line. At 08:40 Hrs on 10.05.16, 132 kV Aizwal- 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.		32	GD-I
44	SR	HVDC BHADRAVATI POLE 1	Powergrid	10-05-2016	09:06	10-05-2016	18:32	09:26	Pole got blocked due to failure of 2Nos of Thyristors and 1Nos of GU card			GI-II
45	NER	132 kV Gohpur - Nirjuli	POWERGRID	10-05-2016	12:30	10-05-2016	12:55	00:25	Lekhi area & Capital area of Arunachal Pradesh were connected with rest of NER Grid through 132 kV Gohpur - Nirjuli line (132 kV Ranganadi - Lekhi was under emergency shutdown from 09:00 Hrs on 10.05.16). At 12:30 Hrs on 10.05.16, 132 kV Gohpur-Nirjuli line tripped. Due to tripping of this element, Lekhi area & Capital area were separated from rest of NER Grid and subsequently collapsed due to no source in this area.		26	GD-I
46	NER	132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines,132 kV NEHU - NEIGRIHMS & 132 kV Mustem-NEHU line & Leshka U 1&2	MePTCL/ POWERGRID & MePGCL	10-05-2016	18:20	10-05-2016	18:24	00:04	Khliehriat area of Meghalaya was connected with rest of NER Grid through 132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines and 2 x 160 MVA, 220/132 kV ICT I&II at Byrnihat (132 kV Panchgram-Lumnsnong line,132 kV Sarusajai-Umtru I&II lines and 132 kV Kahilipara-Umtru I&II lines kept open for system requirement). At 18:20 Hrs on 10.05.16 ,132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines,132 kV NEHU - NEIGRIHMS & 132 kV Mustem-NEHU line tripped. Due to tripping of these elements, Khliehriat area was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.	84	42	GD-I
47	NR	1) 400kV Chamba(PG)-Jalandhar(PG) ckt-1 2) 400kV Chamba(PG)-Jalandhar(PG) ckt-2	POWERGRID	11-05-2016	03:10	11-05-2016	10:05	06:55	400kV Chamba(PG)-Jalandhar(PG) D/C tripped on overvoltage.			GI-II
48	NER	132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines,132 kV NEHU - NEIGRIHMS & 132 kV Mustem-NEHU line	MePTCL/ POWERGRID	11-05-2016	09:53	11-05-2016	09:59	00:06	Khliehriat area of Meghalaya was connected with rest of NER Grid through 132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines and 2 x 160 MVA, 220/132 kV ICT I&II at Byrnihat (132 kV Khliehriat-Lumnsnong line,132 kV Sarusajai-Umtru I&II lines and 132 kV Kahilipara-Umtru I&II lines kept open for system requirement). At 09:53 Hrs on 11.05.16 ,132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines,132 kV NEHU - NEIGRIHMS & 132 kV Mustem-NEHU line 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.		65	GD-I
49	NER	,132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines & 132 kV Khliehriat - NEIGRIHMS and Umiam Stg III U 2 & Umiam Stg IV U 1	MePTCL/ POWERGRID & MePGCL	11-05-2016	11:48	11-05-2016	11:54	00:06	Khliehriat area of Meghalaya was connected with rest of NER Grid through 132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines and 2 x 160 MVA, 220/132 kV ICT I&II at Byrnihat (132 kV Khliehriat-Lumnsnong line,132 kV Sarusajai-Umtru I&II lines and 132 kV Kahilipara-Umtru I&II lines kept open for system requirement & 132 kV Mustem-NEHU line was under emergency shutdown from 10:00 Hrs on 11.05.16). At 11:48 Hrs on 11.05.16 ,132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines & 132 kV Khliehriat - NEIGRIHMS line 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.	48	61	GD-I
50	NER	132 kV Dimapur (PG) - Kohima	POWERGRID & DoP Nagaland	11-05-2016	14:35	11-05-2016	14:59	00:24	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 14:35 Hrs on 11.05.16, 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 due to no source in this area.		25	GD-I
51	WR	Tripping of 1. 400 kV Pune GIS-Pune-I 2. 400 kV Pune GIS-Pune-II 3. 400 kV Pune GIS-Pune-IV 4. 400 kV Pune GIS-Parli-I 5. 400 kV Pune GIS-Parli-II 6. 400 kV Pune GIS-Aurangabad(Waluj) 7. 765/400 kV ICT-I due to bus bar protection operation at Pune-GIS	PGCIL	11-05-2016	18:51	11-05-2016	21:08	02:17	At 18:42 Hrs, 400 kV Pune-Pune GIS 2 circuit tripped on Y phase to Earth fault which was on 400 kV Bus 1 at Pune GIS. After this, at 18:52 Hrs 400 kV Pune-Pune GIS 1 circuit tripped on Y phase to earth fault which was on 400 kV Bus 2 at Pune GIS S/s. However, simultaneously 400 kV elements from 400 kV Pune GIS also tripped on 400 kV Bus Bar protection for Bus 1. There was no load/generation loss during the event.			GI-II

S.No.	Region	Name of Elements (Tripped/Manually opened)	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					
52	SR	Complete outage of 230kV Gummidipundi station of TANTRANSO	TANTRANSO	12-05-2016	12:15	12-05-2016	17:58	02:23	Flash over of Auto Transformer- 2 HV B-phase Isolator supporting insulator of 230kV Southern Bus occurred at Gummidipundi station. At the time of fault, Bus bar protection relay was not in service for pre-commissioning testing of Auto Transformer-2. All feeders got tripped due to operation of zone-2 protection from remote ends. Bus bar protection at Gummidipundi was put in to service on	246	17	GD-I
53	NER	132 kV Dimapur (PG) - Kohima	POWERGRID & DoP Nagaland	12-05-2016	13:51	12-05-2016	14:01	00:10	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-Likimiro line kept open for system requirement). At 13:51 Hrs on 12.05.16, 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 due to no source in this area.		18	GD-I
54	NER	132 kV Dimapur (PG) - Kohima	POWERGRID & DoP Nagaland	12-05-2016	14:03	12-05-2016	14:24	00:21	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-Likimiro line kept open for system requirement). At 14:03 Hrs on 12.05.16, 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 due to no source in this area.		12	GD-I
55	NER	132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines & 132 kV NEHU - NEIGRIHMS line	MePTCL/ POWERGRID	12-05-2016	14:56	12-05-2016	15:02	00:06	Khliehriat area of Meghalaya was connected with rest of NER Grid through 132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines and 2 x 160 MVA, 220/132 kV ICT I&II at Byrnihat (132 kV Khliehriat-Lumnsnong line,132 kV Sarusajai-Umtru I&II lines and 132 kV Kahilipara-Umtru I&II lines kept open for system requirement & 132 kV Mustem-NEHU line was under emergency shutdown from 10:00 Hrs on 11.05.16). At 14:56 Hrs on 12.05.16 ,132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines & 132 kV NEHU - NEIGRIHMS 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.		42	GD-I
56	NER	132 kV Silchar - Dullavcherra line,132 kV Srikona - Panchgram line & 132 kV Silchar-Srikona I & II lines	POWERGRID, AEGCL	12-05-2016	16:58	12-05-2016	17:36	00:38	Part of South Assam area(Srikona&Paliapol area) was connected with rest of NER Grid through 132 kV Srikona - Panchgram line, 132 kV Silchar-Srikona I & II lines & 132 kV Silchar-Panchgram line (132 kV Panchgram-Lumsshong line,132 kV Pailapool-Jiribam line and 132 kV Dullavcherra-Dharmanagar line kept open for system requirement).At 16:51 Hrs on 12.05.16 , 132 kV Silchar-Panchgram line tripped and at 16:58 Hrs on 12.05.16 ,132 kV Silchar - Dullavcherra line,132 kV Srikona - Panchgram line & 132 kV Silchar-Srikona I & II lines tripped. Due to tripping of these elements, Part of South Assam area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.		24	GD-I
57	NER	132 kV Biswanath Charali-Pavoi I&II lines & 132 kV Depota - Sonabil line	POWERGRID, AEGCL	12-05-2016	20:01	12-05-2016	20:57	00:56	Pavoi area of Assam was connected with rest of NER Grid through 132 kV Biswanath Charali-Pavoi I&II lines & 132 kV Depota - Sonabil line (Bus Coupler CB of Gohpur kept open for system requirement). At 20:01 Hrs on 12.05.16,132 kV Biswanath Charali-Pavoi I&II lines & 132 kV Depota - Sonabil line tripped. Due to tripping of these elements, Pavoi area of Assam was separated from rest of NER Grid and subsequently collapsed due to no source in this area.		124	GD-I
58	NER	132 kV Ranganadi - Lekhi	POWERGRID & DoP, AP	12-05-2016	21:02	12-05-2016	21:19	00:17	Lekhi area & Capital area of Arunachal Pradesh and part of Gohpur Area of Assam were connected with rest of NER Grid through 132 kV Ranganadi-Lekhi line (Bus Coupler CB of Gohpur kept open for system requirement). At 21:02 Hrs on 12.05.16,132 kV Ranganadi-Lekhi line tripped. Due to tripping of this element, Lekhi area & Capital area & part of Gohpur area were separated from rest of NER Grid and subsequently collapsed due to no source in this area.		73	GD-I
59	WR	Tripping of 1. 400 kV Kolhapur-Kolhapur GIS 2 2. 400 kV Kolhapur -Karad 2 3. 400 kV Kolhapur-Sholpaur 1 4. 400/220 kV Kolhapur ICT 3 5. Bus Reactor 6. 400 kV Bus 2 @ Kolhapur Due to Bus fault at Kolhapur Bus 2.	MSETCL	13-05-2016	15:59	13-05-2016	16:34	00:35	Due to Flashover on the B phase CT of 400 kV Kolhapur-Kolhapur GIS circuit 2 at Kolhapur end , Bus fault has occurred which led to Bus bar protection operation and tripping of all 400 kV Bus 2 from Kolhapur end. There was no Load/generation loss during the event.			GI-II
60	NER	132 kV Loktak-Ningthoukhong line	MSPCL	13-05-2016	16:55	13-05-2016	17:25	00:30	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 16:55 Hrs on 13.05.16 , 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.		15	GD-I

S.No.	Region	Name of Elements (Tripped/Manually opened)	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					
61	WR	Tripping of 1. 400 kV Asoj(GETCO)-Kosamba(GETCO)-S/C 2. Asoj(GETCO)-Vadodara (PS)-I 3. Asoj(GETCO)-SSP-S/c 4. Asoj(GETCO)-Chorania(GETCO)-I 5. Asoj(GETCO)-Indore(MPPTCL)-I 6. 400/220 kV ICT-I 7. 400/220 kV ICT-III due to bus bar protection operation at Asoj	GETCO	14-05-2016	02:04	14-05-2016	02:49	00:45	The R-ph CT of 400 KV Asoj - Kosamba line caught fire. It led to tripping of 400 KV bus - 1. All elements connected to 400 KV bus -1 (Chorania line No. 1, Vadodara line No. 1, SSP line, 400/220 KV, 500 MVA ICT - 1, 400/220 KV, 315 MVA ICT - 3) along with bus coupler tripped. However, there was no generation / load loss.			GI-II
62	NER	132 kV Loktak-Ningthoukhong line	MSPCL	15-05-2016	12:01	15-05-2016	12:31	00:30	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 12:01 Hrs on 15.05.16 , 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.		18	GD-I
63	WR	Tripping at Sukha 1. 220 kV Sukha-Jabalpur(MP) D/C 2. 220 kV Sukha-Panagar D/C 3. 220 kV Sukha-Narsinghpur D/C 4. 400/200 kV ICT Jabalpur(PG) 1 & 2 Due to R phase CT Blast.	MPPTCL	15-05-2016	17:15	15-05-2016	19:40	02:25	Due to R phase CT bursting of 220 kV Sukha-Panagar 1 at Sukha end causing bus fault and during this all the circuit and both buses tripped.			GD-I
64	NER	132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines,132 kV Mustem-Khliehriat & 132 kV NEIGRIHMS - Khliehriat (ME) line and Leshka U 1&2	MePTCL/ POWERGRID & MePGCL	15-05-2016	20:38	15-05-2016	20:40	00:02	Khliehriat area of Meghalaya was connected with rest of NER Grid through 132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines and 2 x 160 MVA, 220/132 kV ICT I&II at Byrnihat (132 kV Khliehriat-Lumnsong line,132 kV Sarusajai-Umtru I&II lines and 132 kV Kahilipara-Umtru I&II lines kept open for system requirement). At 20:38 Hrs on 15.05.16 ,132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines,132 kV Mustem-Khliehriat & 132 kV NEIGRIHMS - Khliehriat (ME) line tripped. Due to tripping of these elements, Khliehriat area was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.	84	32	GD-I
65	NER	132 kV Imphal-Imphal I & II lines	POWERGRID, MSPCL	15-05-2016	21:28	15-05-2016	21:50	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 21:28 Hrs on 15.05.16, 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.		46	GD-I
66	NR	1) Unit #3 at 220kV RAPS B 2) Unit #4 at 220kV RAPS B 3) unit #1 at 220kV RAPS C 4) unit #2 at 220kV RAPS C	NPCIL	16-05-2016	01:42	-	-	-	Multiple elements tripped at 220kV RAPS B & RAPS C on busbar protection operation due to failure of Y-phase CT of RAPPB-RAPPC tie line.	800		GD-I
67	NER	,132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines,132 kV Mustem-NEHU & 132 kV NEIGRIHMS - Khliehriat (ME) line and Leshka U 1&2	MePTCL/ POWERGRID & MePGCL	16-05-2016	03:50	16-05-2016	03:55	00:05	Khliehriat area of Meghalaya was connected with rest of NER Grid through 132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines and 2 x 160 MVA, 220/132 kV ICT I&II at Byrnihat (132 kV Panchgram-Lumnsong line,132 kV Sarusajai-Umtru I&II lines and 132 kV Kahilipara-Umtru I&II lines kept open for system requirement). At 03:50 Hrs on 16.05.16 ,132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines,132 kV Mustem-NEHU & 132 kV NEIGRIHMS - Khliehriat (ME) line tripped. Due to tripping of these elements, Khliehriat area was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.	84	22	GD-I
68	NER	132 kV Dimapur (PG) - Kohima	POWERGRID & DoP Nagaland	16-05-2016	13:52	16-05-2016	19:18	05:26	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 13:52 Hrs on 16.05.16, 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 due to no source in this area.		21	GD-I
69	NER	132 kV Khliehriat (PG)-Khliehriat (MePTCL) I line & Leshka U 2	MePTCL/ POWERGRID & MePGCL	16-05-2016	15:31	16-05-2016	16:18	00:47	Khliehriat area of Meghalaya was connected with rest of NER Grid through 132 kV Khliehriat (PG)-Khliehriat (MePTCL) I line (132 kV Khliehriat (PG)-Khliehriat (MePTCL) II line tripped at 15:28 Hrs on 16.05.16, 132 kV Panchgram-Lumnsong line & 132kV Khliehriat-Mustem line and 132kV NEIGRIHMS-Khliehriat line were under emergency shutdown). At 15:31 Hrs on 16.05.16 ,132 kV Khliehriat (PG)-Khliehriat (MePTCL) I line tripped. Due to tripping of this element, Khliehriat area was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.	41	8	GD-I

S.No.	Region	Name of Elements (Tripped/Manually opened)	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					
70	NER	132 kv Khliehriat (PG)-Khliehriat (MePTCL) I line,132 kv Leshka - Khliehriat (ME) I&II lines and Leshka U 1&2	MePTCL/ POWERGRID & MePGCL	16-05-2016	17:38	16-05-2016	17:42	00:04	Khliehriat area of Meghalaya was connected with rest of NER Grid through 132 kv Khliehriat (PG)-Khliehriat (MePTCL) I line (132 kv Khliehriat (PG)-Khliehriat (MePTCL) II line tripped at 17:37 Hrs on 16.05.16, 132 kv Panchgram-Lumnsnong line & 132kv Khliehriat-Mustem line and 132kv NEIGRIHMS-Khliehriat line were under emergency shutdown). At 17:38 Hrs on 16.05.16 ,132 kv Khliehriat (PG)-Khliehriat (MePTCL) I line,132 kv Leshka - Khliehriat (ME) I&II lines tripped. Due to tripping of these elements, Khliehriat area was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch and Leshka blacked out.	84	16	GD-I
71	NR	1) 400kV Daultabad(HVPLN)-Gurgaon(PG) ckt 1 2) 400kV Daultabad(HVPLN)-Gurgaon(PG) ckt 2 3) 400/220kV Daultabad 315MVA ICT-3	POWERGRID/ Haryana	16-05-2016	19:03	16-05-2016	22:12	03:09	Multiple elements tripped at 400kV Daultabad. Phase to earth fault reported.			GI-II
72	NER	132 kv Khliehriat (PG)-Khliehriat (MePTCL) I&II lines and 132 kv NEHU - NEIGRIHMS line and Leshka U 1&2	MePTCL/ POWERGRID & MePGCL	16-05-2016	22:02	16-05-2016	22:08	00:06	Khliehriat area of Meghalaya was connected with rest of NER Grid through 132 kv Khliehriat (PG)-Khliehriat (MePTCL) I&II lines and 2 x 160 MVA, 220/132 kv ICT I&II at Byrnihat (132 kv Khliehriat (PG)-Khliehriat (MePTCL) II line tripped at 17:37 Hrs on 16.05.16, 132 kv Panchgram-Lumnsnong line,132 kv Sarusajai-Umtru I&II lines and 132 kv Kahlipara-Umtru I&II lines kept open for system requirement & 132kv Khliehriat-Mustem line was under emergency shutdown). At 22:02 Hrs on 16.05.16 ,132 kv Khliehriat (PG)-Khliehriat (MePTCL) I&II lines and 132 kv NEHU - NEIGRIHMS line tripped. Due to tripping of these elements, Khliehriat area was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.	48	10	GD-I
73	NER	132 kv Khliehriat (PG)-Khliehriat (MePTCL) I & II lines and Leshka U 1&2	MePTCL/ POWERGRID & MePGCL	17-05-2016	02:32	17-05-2016	02:57	00:25	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 Sarusajai-Umtru I&II lines, 132 kv Kahlipara-Umtru I&II lines ,132 kv Khliehriat-NEIGRIHMS line & 132 kv Khliehriat-Mustem line were kept open for system requirement). At 02:32 Hrs on 17.05.16 ,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 subsequently collapsed due to load generation	70	28	GD-I
74	WR	Tripping of 220 kV Bus 1 and connected element at Halwad Sub-station due to Bus fault.	GETCO	17-05-2016	05:40	17-05-2016	07:40	02:00	At 05:40 Hrs., 220 KV Halvad - Dhrangadhra line No. 2 which was on 220 KV Bus -B tripped (Halvad en: Z-I, Y&B Ph, 9.9 Kms, 1.92 KA Dhrangadhra end: B-Ph Trip, 121.8 Kms, 1 KA). At the same time, B-ph flyover string of 220/66, KV 160 MVA Trf No. 1 bay flashed over. It led to bus fault on 220 KV Bus -A. All elements connected to 220 KV Bus A (Mansar line No. 1, Sartanpar line No. 2, Dhrangadhra line No. 1) tripped. However, there was no generation / load loss.			GI-I
75	NR	1) 400kV Daultabad(HVPLN)-Gurgaon(PG)- 2 2) 400/220kV Daultabad 315MVA ICT-3 3) 400kV Daultabad(HVPLN)-Jhajjar-1	POWERGRID/ Haryana	17-05-2016	09:32	17-05-2016	12:07	02:35	Multiple elements tripped at 400kV Daultabad on busbar protection operation.			GI-II
76	NER	132 kv Silchar- Dullavcherra line	POWERGRID, AEGCL	17-05-2016	12:37	17-05-2016	12:53	00:16	Dullavcherra area of Assam and Dharmanagar area of Tripura were 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 12:37 Hrs on 17.05.16 , 132 kv Silchar- Dullavcherra line tripped. Due to tripping of this element,Dullavcherra area of Assam and Dharmanagar area of Tripura were separated from rest of NER Grid and subsequently collapsed due to no source in this area.		10	GD-I
77	NR	1) 220kV CB Ganj (UP)-Bareilly 2) 220kV CB Ganj (UP)-Tanakpur (NHPC)	NHPC/UP	17-05-2016	13:16	17-05-2016	14:42	01:26	Multiple elements tripped at 220kV CB Ganj (UP) due to bus fault at CB Ganj end.			GD-I
78	WR	Tripping of 1. 400 kv Korba-Bhilai 1 2. 400 kv Korba-Raipur 4 3. 400 kv Korba WestKorba 4. 400 kv Korba West ExtBhilai 1 5. 400 kv Korba-Balco 6. 400 kv Korba-Sipat 7. 400 kv Korba WestMarwa 1 8. 220 kv Korba West -Chhuri - 2 9. 220 kv Korba East -Korba West I/C 1 & 2 10. Korba East Unit-5 120 MW 11. Korba East Ext. Unit 1 250 MW Due to heavy rain and wind in the area.	PGCIL/NTPC/ CSPGCL/CSPT CL/BALCO	17-05-2016	17:23	17-05-2016	18:03	00:40	Due to Bad weather scenario, several 400 kv lines from Korba and Korba West tripped along with few 220 kv lines following which one unit each of Korba east & Korba east extension tripped. Further with overloading of lines from Korba sub-station, Generation were in its units. Total generation loss due to unit tripping at Korba east and Korba east Extension 300 MW.	300		GI-II

S.No.	Region	Name of Elements (Tripped/Manually opened)	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					
79	ER	1) 132 kv Madhepura-Supaul D/c 2) 132 kv Purnea(BSEB)-Forbisgunj 3) 132 kv Purnea(PG)-Kishangunj	BSPHCL/Nepal	17-05-2016	20:50	17-05-2016	21:25	00:35	132 kv Madhepura-Supaul D/c tripped (inclement weather reported, relay indications awaited) and consequently 132 kv Purnea(BSEB)-Forbisgunj and 132 kv Purnea(PG)-Kishangunj tripped on overload causing power failure at Supaul, kataiya, Forbisgunj, Saharsa and power to Nepal at Duhabi also got		200(120 to Nepal)	GD-I
80	WR	Tripping of 1. 400 kV ISP-Indore-I 2. 400 kV ISP-Indore-II 3. 400 kV ISP-Nagda 4. 400 kV ISP-Satpura due to 400 kV R-Ph CVT of 400 kV Bus-B burst leading bus fault at ISP and blackout at ISP.	NHDC	18-05-2016	02:19	18-05-2016	03:30	01:11	At 02:19 Hrs, R Phase CVT of 400 kV Bus 2 at 400 kV Indirasagar burst resulting in Bus fault on the 400 kV Bus 2. With this the Bus bar protection operated for the Bus fault however, all the connected elements from the sub-station has tripped during the event. This caused complete blackout of the sub-station along with generation loss of 215 MW	215		GD-I
81	WR	Tripping of 1. 220 kV Miraj-Vita 2. 220 kV Miraj-Karad 3. 220 kV Miraj-Ichlkkrn 4. 220 kV Miraj-Mhaisal due to bus bar protection operation at Miraj	MSETCL	18-05-2016	03:31	18-05-2016	06:13	02:42	At 03:31 Hrs, B phase PT of 220 kV Bus of 220/132 kV Miraj sub-station got burst resulting in bus fault and tripping of all the elements from the Miraj sub-station. This resulted in the blackout of Miraj and nearby area. Total load loss during the event was 196 MW and quantum of energy unserved 529.2 MWHrs.		196	GD-I
82	NR	1) 660MW unit #1 at 400kV Lalitpur 2) 110MW unit #2 at 400kV Paricha 3) 210MW unit #3 at 400kV Paricha 4) 210MW unit #4 at 400kV Paricha 5) 250MW unit #5 at 400kV Paricha 6) 250MW unit #6 at 400kV Paricha	UP	18-05-2016	11:28	18-05-2016	14:53	03:25	All running units of Paricha TPS and one unit of Lalitpur TPS tripped on electrical fault.	600		GD-I
83	NER	132 kv Dimapur (PG) - Kohima	POWERGRID & DoP Nagaland	18-05-2016	13:29	18-05-2016	13:50	00:21	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 13:29 Hrs on 18.05.16, 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 due to no source in this area.		15	GD-I
84	WR	Tripping of 1. 220 kV Birsinghpur-Jabalpur-I 2. 220 kV Birsinghpur-Jabalpur-II 3. 220 kV Birsinghpur-Traction-I 4. 220 kV Birsinghpur-Traction-II 5. 220 kV Birsinghpur-Birsinghpur(Hy)-I 6. 220 kV Birsinghpur-Birsinghpur(Hy)-II 7. 220 kV Birsinghpur-Birsinghpur(Hy)-III 8. 220 kV Birsinghpur-Birsinghpur(Hy)-IV due to bus fault at Birsinghpur.	MPPTCL/ MPPGCL	18-05-2016	14:56	18-05-2016	15:27	00:31	At 14:56 Hrs, due to R phase to earth fault on 220 KV Birsinghpur – Jabalpur 2 and its line protection being out of service at Birsinghpur end has resulted in tripping of all the feeders from Birsinghpur end on distance protection from remote ends. This has led to blackout of 220/132 kV Birsinghpur Sub-station along with radially fed 132 kV Umariya sub-station. Total load loss during the event was 37 MW with energy unserved quantum of 21.58 MWHr.		37	GD-I
85	WR	Tripping of 1. 765 kV Sholapur-Raichur 1 2. 765 kV Sholapur-Raichur 2 on Single phase to earth fault	PGCIL/ RSTCL	18-05-2016	16:56	18-05-2016	17:37	00:41	During heavy rain, the 765 kV Sholapur-Raichur 2 tripped at 16:56 Hrs. and 765 kV Sholapur-Raichur 1 at 16:57 Hrs. This resulted in interconnection of Southern Grid via only 400 kV Kolhapur-Kudgi D/C circuit with NEW grid which is a longer path for interconnection. Immediate steps were taken to restore these lines however, for that the standing phase angle between 765 kV Sholapur and 765 kV Raichur has to be less than 5 degrees. As the operator were taking action in this regard by increasing the generation in southern region by HVDC power flow increment, there was sudden load throw off in Northern region at 17:32 Hrs. due to Phase to phase fault near load center. This has led to sudden increase in change of power flow and angle across Raichur -Sholapur which crossed 72 degree and due to which synchronization of lines through auto synchronization facility got delayed. However, the load restored quickly within 6 minutes and angular separation of 765 kV Sholapur and Raichur reduced below 5 degree resulting in restoration of circuits. During the event no SPS has operated in the grid.			GI-II
86	NR	1) 400kV Bawana-Mundaka ckt 2	Delhi	18-05-2016	17:31	18-05-2016	19:30	01:59	400kV Bawana-Mundaka ckt 2 tripped on Y-B phase to phase fault. At the same time load loss occurred in Haryana, UP, Delhi and Punjab.		3750	GD-I
87	WR	Tripping of 1. Wanakbori Unit 6 & 7 2. 400 kV Wanakbori-Dehgam 3. 400 kV Wanakbori-Soja 4. 400 kV Bus 2 Wanakbori	GSECL	18-05-2016	22:07	19-05-2016	01:05	02:58	Due to bus fault, 400 kV Bus 2 at Wanakbori	385		42 GI-II

S.No.	Region	Name of Elements (Tripped/Manually opened)	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					
88	NR	1) 220kV Bareilly(UP)-Pithoragarh(PG) 2) 220kV Dhauliganga(NHPC)-Pithoragarh(PG) 3) Unit # at 400kV Dhauliganga HEP 4) Unit # at 400kV Dhauliganga HEP	UP/Uttarakhand/NHPC	19-05-2016	00:28	19-05-2016	06:20	05:52	Multiple elements tripped at 220kV Dhauliganga and 220kV Pithoragarh. Phase to earth fault reported.	150		GD-I
89	SR	HVDC GAJUWAKA POLE 2	Powergrid	19-05-2016	11:41	19-05-2016	12:41	01:00	Pole got blocked due to operation of differential protection of east side of pole-2 due to ferro-resonance. All 3rd harmonic filters got tripped due to thermal overload trip			GI-II
90	WR	Tripping of 1. 220 kV Akrimota(GETCO-ALTPS)-Nakhatrana(GETCO)-I 2. 220 kV Akrimota(GETCO-ALTPS)-Nakhatrana(GETCO)-II 3. 220 kV Akrimota(GETCO-ALTPS)-Panadhrao(GETCO-KLTPS)-I 4. 220 kV Akrimota(GETCO-ALTPS)-Panadhrao(GETCO-KLTPS)-II 5. 220 kV Panadhrao(GETCO-KLTPS)-Nakhatrana(GETCO)-I 6. 220 kV Panadhrao(GETCO-KLTPS)-Nakhatrana(GETCO)-II 7. 220 kV Panadhrao(GETCO-KLTPS)-Kukma(GETCO)-I due to bus bar protection operation at KLTPS and 3-Ph fault on other lines	GMDC/ GETCO/ GSECL	19-05-2016	16:56	19-05-2016	17:08	00:12	Due to tripping of all the evacuation lines from Akrimota (AKLTPS) and Panadhrao (KLTPS), both sub-station got islanded resulting in loss of generation from these plants at 16:56 Hrs on 19th May 2016. The complete blackout of these stations led to loss of 384 MW of generation loss. Along with this around 7.2 MW of load was also lost for a duration of 20 minutes resulting in 2.4 MWhr of energy unserved in the area	384	7.2	GD-I
91	NER	132 kV Dimapur (PG) - Kohima	POWERGRID & DoP Nagaland	19-05-2016	18:20	19-05-2016	18:40	00:20	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 18:20 Hrs on 19.05.16, 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 due to no source in this area.		33	GD-I
92	NER	132 kV Dimapur (PG) - Kohima	POWERGRID & DoP Nagaland	19-05-2016	18:45	19-05-2016	19:25	00:40	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 18:45 Hrs on 19.05.16, 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 due to no source in this area.		22	GD-I
93	WR	Tripping of 1. 220 kV Badod-Ujjain-I 2. 220 kV Badod-Ujjain-II 3. 220 kV Badod-Nepaniya 4. 220 kV Badod-Kota due to bus fault at Badod	MPPTCL	19-05-2016	23:12	20-05-2016	00:09	00:57	Due to R phase PT burst of 220 kV Badod-Nipania ckt , 220 kV Bus 2 Bus fault occurred and all connected line tripped.		20	GD-I
94	WR	Tripping of 1. 220 kV Mahalgaon-Gwalior (PG) D/C 2. 220 kV Mahalgaon-Bina(MP) 3. 220 kV Mahalgaon-Datiya due to Y phase CT of 220 kv bina-Mahalgaon ckt at Mahalgaon end causing bus bar protection operation and 220 kV bus outage. 132 kV system survived.	MPPTCL	20-05-2016	08:15	20-05-2016	08:39	00:24	Due to Y phase CT of 220 kV Bina-Mahalgaon ckt at Mahalgaon end causing bus bar protection operation and 220 kV bus outage. 132 kV system survived.			GI-I
95	WR	Tripping of 1. 220 kV Chhegoan-Nirman-I 2. 220 kV Chhegoan-Nirman-II 3. 220 kV Chhegoan-Khandwa-I 4. 220 kV Chhegoan-Khandwa-II 5. 220 kV Chhegoan-Singhaji-I 6. 220 kV Chhegoan-Singhaji-II 7. 220 kV Chhegoan-Omkarshwar 8. 220 kV Chhegoan-Napenagar 9. 400/220 kV ICT-I due to bus bar operation at Chhegoan	MPPTCL	20-05-2016	18:30	20-05-2016	19:55	01:25	Bus fault had occurred at 220 kV Bus of Cheggaon due to bursting of Y phase Ct of 220 kV Shingaji-Cheggaon 2 . Due to this both 220 kV buses became dead however there was no load event.			GI-I

S.No.	Region	Name of Elements (Tripped/Manually opened)	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					
96	WR	Tripping of 1. 220 kV Malanpur-Auriya 2. 220 kV Mehgoan-Malanpur 3. 220 kV Gwlior-Malanpur-I 4. 220 kV Gwlior-Malanpur-II due to bus bar protection operation at Malanpur	MPTTCL	20-05-2016	23:38	21-05-2016	00:07	00:31	B Phase CT of 220 kV Gwalior(PG)-Malanpur 1 at Malanpur burst causing Bus bar operation and blackout at the station.		Pending	GD-I
97	WR	Tripping in Mahdyapradesh and Chattishgarh due to Bad Weather 1.765 kV Jabalpur(PS)-Bina(PG)-III 2.220 kV BIRSINGHPUR-JABALPUR-I 3.220 kV DAMOH-SAGAR-S/C 4.220 kV DAMOH(MP)-SAGAR -S/C 5.765 kV Dharamjaygarh(PG)-Jabalpur(PS)-III 6.220 kV 220KV BIRSINGHPUR-JABALPUR-II 7.400 kV RAIPUR-WARDHA-I 8.400 kV RAIPUR-WARDHA FSC-1 FSC 9.400 kV Korba(W) Ext-BHILAI(KHEDAMARA)-I 10.765 kV Dharamjaygarh(PG)-New Ranchi(PG)-II 11.400 kV KORBA(NTPC)-BHILAI-II 12.400 kV KORBA(NTPC)-BHILAI-I 13.765 kV Raipur PS(Durg)-Dharamjaygarh(PG)-S/C 14.765 kV Dharamjaygarh(PG)-New Ranchi(PG)-I 15.400 kV RAIPUR-DURG-I 16.400 kV BHILAI(KHEDAMARA)-RAITA-III 17.400 kV RAIPUR-DURG-II 18.400 kV JPL_extn(TAMNAR)-TAMNAR(PS)-III 19.765 kV Dharamjaygarh-Bilaspur-S/C 20.765 kV Tamnar PS(Raigarh) 240MVAR BR 21.400 kV RKM-RAIGARH-I 22.400 kV KATNI-BIRSINGPUR-II 23.400 kV DAMOH-KATNI-I 24.400 kV RAIGARH-IBPI-I	Multiple Agency	21-05-2016	14:51	21-05-2016	16:09	01:18	In the afternoon hours of 21 May 2016 heavy rains prevailed in eastern part of Madhya Pradesh and Chhattisgarh demand crashed by around 1200MW and 1000 MW. Western Regional demand gradually reduced from about 41300 MW to 38900 MW due to rains and further reduced during evening hours (17:00 HRS-18:00 HRS) to 36000 MW as normal trend. No Generating units tripped, No power interruption took place. Several lines tripped on fault which were restored as early as possible.			GI-II
98	WR	Tripping of 220 kV Bus 1 of 220 kV Wagra Sub-station.	GETCO	22-05-2016	21:45	22-05-2016	23:35	01:50	At 21:45 hrs. the weather was very heavy humid weather and heavy wind there. one insulator string of double tension string insulator of Y-ph fly over bus of 220 KV Wagra - Dahej line bay flashed over. All insulator disc of string flashed over and their pieces fallen down to ground. It led to activation of bus bar protection Zone -1. It led to tripping of all elements connected to 220 KV Bus - 1 (220 KV Bus Coupler, 220 KV Dahej, 220 KV RVNL-01 and 220/66, KV 50 MVA Trf -01). However, there was no load loss.			GI-I
99	NR	1) 400kV Jhakri-Panchkula ckt 2 2) 400kV Jhakri-Rampur ckt-2 3) Unit #2 at 400kV Karcham (as per planned SPS) 4) Unit #4 at 400kV Karcham (as per planned SPS) 5) Unit #3 at 400kV Jhakri (as per planned SPS) 6) Unit #5 at 400kV Jhakri (as per planned SPS) 7) Unit#1 at 400kV Rampur HEP 8) Unit#2 at 400kV Rampur HEP 9) Unit#4 at 400kV Rampur HEP 10) Unit#5 at 400kV Rampur HEP 11) Unit#6 at 400kV Rampur HEP	POWERGRID/ NJPC/JP Hydro	22-05-2016	21:10	22-05-2016	21:24	00:14	400kV Jhakri-Panchkula ckt 2 tripped at 21:07hrs on B-phase to earth fault and 400kV Jhakri-Rampur ckt-2 tripped on phase to phase fault. SPS logic 2 operated and two units at Karcham(2,4), hakri(3,5) and 5 units at Rampur tripped.	1450		GD-I
100	NR	1) 400kV Bamnauli-Jhatikara ckt 1 2) 400kV Bamnauli-Jhatikara ckt 2 3) 765/400kV Jhatikara ICT 1 4) 765/400kV Jhatikara ICT 2	POWERGRID/ Delhi	22-05-2016	20:29	22-05-2016	-	-	Multiple elements tripped at 765/400kV Jhatikara (PG). Phase to earth fault reported.		600	GD-I
101	WR	Tripping of 1. 220 kV Tons-Rewa D/C 2. 220 kV Tons-Satna 3. Unit 1 @ Tons During heavy rain	MPPTCL/MPP GCL	23-05-2016	14:22	23-05-2016	17:38	03:16	Due to snapping lighting cable of tower lighting and falling on the 220 kV Bus 2, Bus fault occurred. However in this case both the buses tripped causing blackout.	105		44 GD-I

S.No.	Region	Name of Elements (Tripped/Manually opened)	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					
102	WR	Tripping of 220 kV Bus 2 of 220 kV Wagra Sub-station.	GETCO	23-05-2016	21:40	23-05-2016	22:05	00:25	At 21:40 hrs. the weather was very heavy humid weather and heavy wind there. one insulator string of double tension string insulator of R-ph fly over bus of 220 KV Wagra - Dahej line bay flashed over. All insulator disc of string flashed over and their pieces fallen down to ground. It led to activation of bus bar protection Zone -2. It led to tripping of all elements connected to 220 KV Bus - 2 (220 KV Bus Coupler, 220 KV Dahej, 220 KV RVNL-01 and 220/66, KV 100 MVA Trf -2). However, there was no load loss.			GI-I
103	WR	Tripping of 220 kV Bus 2 of 220 kV Wagra Sub-station.	GETCO	24-05-2015	04:45	24-05-2015	05:00	00:15	At 04:45 hrs. the weather was very heavy humid and heavy wind there. one insulator string of double tension string insulator of B-ph fly over bus of 220 KV Wagra - Haldarva line bay flashed over. All insulator disc of string flashed over and their pieces fallen down to ground. It led to activation of bus bar protection Zone -2. It led to tripping of all elements connected to 220 KV Bus - 1 (220 KV Bus Coupler, 220 Kv Haldarva line 220 KV RVNL line No. 2 and 220/66, KV 50 MVA Trf -1). There was 20 MW load loss.		20	GI-I
104	WR	Tripping of 1. 220 kV Akrimota(GETCO-ALTPS)-Panadhrao(GETCO-KLTPS)-I 2. 220 kV Akrimota(GETCO-ALTPS)-Panadhrao(GETCO-KLTPS)-II 3. 220 kV Akrimota(GETCO-ALTPS)-Nakhatrana(GETCO)-I 4. 220 kV Akrimota(GETCO-ALTPS)-Nakhatrana(GETCO)-II Causing Blackout at AKLTPS	GMDC/ GETCO/ GSECL	24-05-2015	05:20	24-05-2015	06:19	00:59	Prior to tripping, ALTPS Unit No. 2 was on bar with 95 MW generation. 220 KV ALTPS - Nakhatrana line No. 1 tripped on Z1 B ph to E, 1.5 Km from ALTPS end only. At the same time, 220 KV ALTPS - Nakhatrana line No. 2 tripped from ALTPS end. Also, 220 KV KLTPS - ALTPS line No. 1 & 2 tripped. It led to black out at ALTPS.	96		GD-I
105	ER	1)400 KV Gaya-Kodarma D/C 2) 400 KV Biharshariff-Kodarma D/C 3)400 KV Kodarma-Bokaro A D/C 4)315 MVA ,400/220 KV ICTS at Kodarma 5)315 MVA ,400/220 KV ICT at Bokaro A 6)Kodarma Unit-1	DVC	25-05-2016	08:53	25-05-2016	10:41	01:48	400 KV Koderma-Bokaro D/C tripped at 08:53 hrs due to snapping of Earthwire resulting in tripping of 400 KV Gaya-Koderma D/C, 400 KV Biharsharif-Koderma D/C, 315 MVA ICT at Koderma, 315 MVA ICT at Bokaro.	402	250	GD-I
106	WR	Tripping of 1. 220 kV Damoh-Katni 2. 220 kV Damoh-Tikamgarh 3. 220 kV Damoh-Damoh(PG)-I 4. 220 kV Damoh-Damoh(PG)-II 5. 220 kV Damoh-Traction-I 6. 220 kV Damoh-Traction-II due to bus bar protection operation at Damoh-MP	MPPTCL	25-05-2016	10:00	25-05-2016	10:30	00:30	Due to Mal-operation of Bus bar protection of 220 kV level at 220/132 kV Damoh all 220 kV elements. No interruption ar 132 kV level.			GI-I
107	WR	Tripping of 1. 220 kV TONS-Rewa-I 2. 220 kV TONS-Rewa-II 3. 220 kV TONS-Satna 4. 220 kV TONS-Kotar 5. 220 kV Kotar-Satna due to heavy rain and storm in TONS and Rewa Area	MPPTCL/MPP GCL	25-05-2016	11:59	25-05-2016	12:29	00:30			128	GD-I
108	WR	Tripping of 1. 220 kV Katni-Maihar 2. 132 kV Katni-Keymore Causing blackout at the 220/132 kV Maihar sub-station.	MPPTCL	25-05-2016	12:23	25-05-2016	12:38	00:15	Due to Bad weather condition, Incoming supply to 220/132 kV Maihar sub-station from 220 kV Katni-Maihar and 132 kV Maihar-Keymore got interrupted resulting in blackout at the 220/132 kV Maihar S/s.		56.8	GD-I
109	WR	Tripping of 1. 400 kV Jabalpur PS-MB Power 1 2. 400 kV Jabalpur PS-MB Power 2 3. MB Power Unit 1	MB Power	25-05-2016	14:26	25-05-2016	15:41	01:15	At 14:14 Hrs, 400 kV Jabalpur PS-MB Power 1 circuit tripped on fault followed by other circuit tripping at 14:26 Hrs. This has led to blackout of MB power sub-station and tripping of running unit 1. This resulted in 477 MW of generation loss.	477		GD-I
110	ER	1) 400KV New Dubri-Mendhasal 2) 400KV Baripada-Mendhasal 3) 220KV Mendhasal-Nayagarh	OPTCL	25-05-2016	15:20	25-05-2016	16:35	01:15	Due to inclement weather all 400 kV lines emanating from Mendhasal tripped		500	GD-I

S.No.	Region	Name of Elements (Tripped/Manually opened)	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					
111	NER	132 kV Ranganadi - Lekhi	POWERGRID &DoP,AP	25-05-2016	17:30	25-05-2016	17:44	00:14	Nirjuli area of Arunachal Pradesh and part of Gohpur Area of Assam were connected with rest of NER Grid through 132 kV Lekhi-Nirjuli line (Bus Coupler CB of Gohpur kept open for system requirement). At 17:30 Hrs on 25.05.16, 132 kV Lekhi-Nirjuli line tripped. Due to tripping of this element, Nirjuli area & part of Gohpur Area were separated from rest of NER Grid and subsequently collapsed due to no source in this area.		14	GD-I
112	NR	1) 400kV Aligarh-Panki 2) 400kV Aligarh-Muradnagar ckt-1	UP	25-05-2016	18:09	25-05-2016	19:45	01:36	Multiple elements tripped at 400kV Aligarh. Phase to earth fault reported.			GI-II
113	NR	1) 400/220kV Bhiwadi 315MVA ICT 1 2) 400/220kV Bhiwadi 315MVA ICT 2 3) 400/220kV Bhiwadi 315MVA ICT 3	POWERGRID	25-05-2016	16:36	25-05-2016	17:34	00:58	400/220kV Bhiwadi 315MVA ICT 1, 2 and 3 tripped on overcurrent		200	GD-I
114	NR	1) 220kV Tanakpur(NHPC)-Sitarganj(PG) 2) 220kV Cbganj(UP)-Tanakpur(NHPC)	POWERGRID/ NHPC/UP	25-05-2016	13:53	25-05-2016	16:06	02:13	Multiple elements tripped at 220kV Tanakpur. Phase to earth fault reported.	50		GD-I
115	NER	132 kV Aizwal - Zuangtui	POWERGRID	25-05-2016	19:46	25-05-2016	20:54	01:08	Zuangtui area of Mizoram was connected with rest of NER Grid through 132 kV Aizwal-Zuangtui line. At 19:46 Hrs on 25.05.16, 132 kV Aizwal- 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.		37	GD-I
116	WR	Tripping of 1. 220 kV Akrimota(GETCO-ALTPS)-Panadhrao(GETCO-KLTPS)-I 2. 220 kV Akrimota(GETCO-ALTPS)-Panadhrao(GETCO-KLTPS)-II 3. 220 kV Akrimota(GETCO-ALTPS)-Nakhatrana(GETCO)-I 4. 220 kV Akrimota(GETCO-ALTPS)-Nakhatrana(GETCO)-II Causing Blackout at AKLTPS	GMDC/ GETCO/ GSECL	25-05-2015	22:32	25-05-2015	22:59	00:27	There was heavy chattering in switch yard at ALTPS. All elements connected to 220 KV Bus A & Bus B tripped. It led to tripping of all elements connected to ALTPS. There was generation loss of 92 MW (ALTPS Unit No. 2 was running at 92 MW).	92		GD-I
117	NER	132 kV Balipara - Khupi	NEEPCO	26-05-2016	17:03	26-05-2016	18:39	01:36	Khupi area of Arunachal Pradesh was connected with rest of NER Grid through 132 kV Balipara- Khupi line. At 17:03 Hrs on 26.05.16 , 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.		29	GD-I
118	WR	Blackout of 220 kV Wagra Sub-station	GETCO	27-05-2015	05:50	27-05-2015	06:00	00:10	The weather was very heavy humid . There was heavy chattering in switch yard especially on bus PT bay. It led tripping of Bus - 1 at 04:50. It led to tripping of all elements connected to 220 KV Bus - 1 (220 KV Bus Coupler, 220 KV Dahej line 220 KV RVNL line No. 1 and 220/66, KV 100 MVA Trf -2). Further, there was heavy chattering in switch yard especially on bus PT bay. It led tripping of Bus - 2 at 05:50. It led to tripping of all elements connected to 220 KV Bus - 2 (220 KV Bus Coupler, 220 KV Haldarva line 220 KV RVNL line No. 1 and 220/66, KV 50 MVA Trf -1). This caused blackout at Wagra sub-station. There was 22 MW load loss.		22	GD-I
119	ER	1)400 KV Farakka -Bahrapur 2)400 KV Farakka-Kahalgaoon-II 3) Farakka Unit-IV	NTPC/PG	27-05-2016	10:04	27-05-2016	11:51	01:47	Due to Y-Phase GT bushing burst at Farakka end units and lines got tripped.	500		GI-II
120	WR	Tripping of 1. 400 kV Vindhychal-Jabalpur-II 2. 400 kV Vindhychal-Satna-II 3. 400 kV Vindhychal –Korba II 4. 400/132 kV ICT-I 5. Unit-8 of 500 MW due to Bus Sectionalizer misoperation.	NTPC	27-05-2015	11:50	27-05-2015	12:51	01:01	Due to issue with Protection system all elements on 400 kV Bus section 4 tripped at Vindhychal sub-station causing tripping of lines and units.	487		GI-II
121	NR	1) 765kV Gaya-Varanasi-1 2) 1500MVA ICT #1 at Varanasi	POWERGRID	27-05-2016	12:26	27-05-2016	14:10	01:44	765kV Gaya-Varanasi-1 tripped on Y-B fault. 1500MVA ICT #1 also tripped at Varanasi(PG).			GI-II
122	WR	Tripping of 1. 400 kV Dhule (MSETCL) – Khandwa -2 2. 400 kV Dhule (MSETCL) – Bableshwar -1 3. 400 kV Dhule (MSETCL) – Dhule (BDTCL) -2 4. 400/220 kV ICT-1 due to bus bar protection operation at Dhule.	MSETCL	28-05-2016	08:46	28-05-2016	10:43	01:57	At 400 KV Dhule Substation Main Bus-I zone 1 Bus bar protection operated due to malfunctioning causing all elements from 400 kV Dhule along with bus coupler tripping.			GI-II

S.No.	Region	Name of Elements (Tripped/Manually opened)	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					
123	NR	1) 400kV Rishikesh-Roorkee 2) 400kV Roorkee-Kashipur 3) 400kV Kashipur-Rishikesh	POWERGRID/ PTCUL	28-05-2016	19:40	28-05-2016	20:56	01:16	Multiple elements tripped at 400kV Roorkee and Rishikesh.			GI-II
124	NR	1) 220kV Tanakpur(NHPC)-Sitarganj(PG) 2) 220kV Cbganj(UP)-Sitarganj(PG) 3) 220kV Tanakpur-Sitarganj	POWERGRID/ NHPC/UP	28-05-2016	21:00	28-05-2016	23:28	02:28	On bus bar protection operation, 220kV CB Ganj-Sitarganj and 220kV CB Ganj-Tanakpur tripped. 220kV Tanakpur-Sitarganj also tripped along with above.			GD-I
125	NR	1) 400kV Hisar-Kaithal 2) 400kV Hisar-Fatehabad 3) 400kV Hisar-Moga ckt-2 4) 400kV Hisar-Moga ckt-3 5) 400kV Hisar-Bhiwani(PG) ckt 2 6) 400kV Hisar-Bhiwani(BBMB)	POWERGRID/ BBMB	29-05-2016	18:10	29-05-2016	19:05	00:55	400kV Hisar-Kaithal, 400kV Hisar-Fatehabad, 400kV Hisar-Moga ckt-2, 3 tripped 18:10hrs. R-phase to earth fault reported. 400kV Hisar-Bhiwani(BBMB), 400kV Hisar-Bhiwani(PG)-2, 3 also tripped at 18:17hrs. B-phase to earth fault reported.			GI-II
126	NR	1) 400kV Daultabad(HVPLN)-Gurgaon(PG) ckt 1 2) 400kV Daultabad-Dhanonda-1	Haryana/PO WERGRID	29-05-2016	20:10	30-05-2016	01:31	05:21	Multiple elements tripped at 400kV Daultabad.			GI-II
127	NER	132 kV Balipara - Khupi	NEEPCO	30-05-2016	14:22	31-05-2016	10:55	20:33	Khupi area of Arunachal Pradesh was connected with rest of NER Grid through 132 kV Balipara- Khupi line. At 14:22 Hrs on 30.05.16 , 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.		20	GD-I
128	SR	HVDC TALCHER - KOLAR POLE 1	Powergrid	30-05-2016	09:49	30-05-2016	11:45	01:56	Pole-1 got due to operation of group differential protection of Pole-1. CT failure had occurred in AC filter bank-2			GI-II
129	ER/NR	1) HVDC Pusauli 2) 400/220 kV ICT-I & II at Pusauli 3) 220 kV Lines from Pusauli	PG/BSPHCL	30-05-2016	15:56	30-05-2016	16:20	00:24	Due to tripping of 400/220 kV ICT-I & II at Sasaram, all 220 kV lines from Sasaram and Back to back HVDC tripped. ICT –I tripped due to PRD(Pressure Release device) operation and was carrying 250 MW.before tripping, this led to overloading of ICT-II and it also tripped on overcurrent. Due to loss of Auxiliary Supply resulting from ICT trippings, HVDC Back To Back Pusauli tripped which was in HVDC mode with 500 MW towards NR. The ICTs tripping caused extensive load loss(approx.480 MW) in Bihar network due to tripping of 220 kV lines .		500	GD-I
130	SR	Tripping of 400 kV JEYPORE - GAZUWAKA line-1& 2 and HVDC Gazuwaka Pole-1&2	Powergrid	30-05-2016	19:01	30-05-2016	19:35	00:34	Line-1 tripped on Y-phase to earth fault. Auto reclose un-successful due to persistent faultLine-2 tripped due to over-voltage. Gajuwaka HVDC pole-1&2 blocked due to loss of east bus voltage			GI-II
131	NER	132 kV Imphal-Imphal I & II lines	POWERGRID, MSPCL	31-05-2016	10:55	31-05-2016	11:15	00:20	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 10:55 Hrs on 31.05.16 ,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.		44	GD-I

18. NEW ELEMENTS COMMISSIONED IN MAY-2016

COMMISSIONING OF NEW GENERATING UNITS

REGION	SL. NO.	CONSTITUENT	UNIT NAME	UNIT NO	CAPACITY (MW)	DATE	TIME
WR		IPP	Jhabua Power	1	600	03-05-2016	
SR		SCCL	Singareni TPS	2	600	28-05-2016	
		IPP	NCC		660	26-05-2016	

COMMISSIONING OF NEW ICTs

REGION	SL. NO.	CONSTITUENT	VOLTAGE LEVEL	SUB-STATION	ICT NO	CAPACITY	DATE	TIME
WR		MSETCL	765/400	Ektuni	I	1500	31-05-2016	01:05
NER		POWERGRID	400/220	Balipara	II	315	25-05-2016	22:45

COMMISSIONING OF NEW TRANSMISSION LINES

REGION	SL. NO.	CONSTITUENT	LINE NAME	CKT NO	kV	DATE	TIME (Hrs)
WR	3	Powergrid	KWPCL-Kotra	I	400	01-05-2016	
	4		KWPCL-Kotra	II	400	01-05-2016	
	5		Kotra-Lara	I	400	02-05-2016	
	6		Kotra-Lara	II	400	03-05-2016	
	7	BALCO	BALCO-Dharmjaigarh	II	400	14-05-2016	
	8	MSETCL	Bableshwar-Ektuni	I	400	14-05-2016	01:12
	9		Bableshwar-Ektuni	II	400	14-05-2016	01:46
	10		Akola-Ektuni	I	765	27-05-2016	20:04

विद्युत विभव रूपरेखा माह – मई 2016

VOLTAGE PROFILE - MAY 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%	784	743	770
2		गया GAYA	0%	100%	0%	0%	795	729	764
3		झारसुगुडा JHARSUGUDA	0%	100%	0%	0%	800	762	782
4		रांची RANCHI	0%	100%	0%	0%	803	759	784
5		सासाराम SASARAM	2%	98%	0%	2%	794	714	756
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	808	738	769
2		अनपरा सी ANPARA-C	0%	100%	0%	0%	790	748	765
3		बलिया BALLIA	0%	100%	0%	0%	800	730	766
4		भिवानी BHIWANI	0%	98%	2%	2%	810	747	776
5		बरेली BAREILLY	0%	100%	0%	0%	760	723	756
6		फतेहपुर FATEHPUR	0%	100%	0%	0%	791	728	757
7		झटिकरा JHATIKARA	0%	99%	1%	1%	804	738	771
8		लखनऊ LUCKNOW	0%	99%	1%	1%	760	739	766
9		मेरठ MEERUT	0%	97%	3%	3%	818	746	777
10		मोगा MOGA	0%	99%	1%	1%	808	742	772
11		फागी PHAGI	0%	100%	0%	0%	794	731	763
12		उन्नाव UNNAO	0%	100%	0%	0%	790	720	753
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	790	736	762
2		औरंगाबाद AURANGABAD	0%	99%	1%	1%	805	744	779
3		भोपाल (बीडीटीसीएल) BHOPAL (BDTCL)	0%	100%	0%	0%	793	739	766
4		बिलासपुर BILASPUR	0%	100%	0%	0%	781	749	764
5		बीना BINA	0%	100%	0%	0%	796	736	772
6		चापा CHAMPA	0%	80%	20%	20%	813	774	794
7		धर्मजयगढ़ DHARAMJAIGARH	0%	100%	0%	0%	793	744	772
8		धुले (बीडीटीसीएल) DHULE (BDTCL)	0%	100%	0%	0%	801	738	776
9		ग्वालियर GWALIOR	0%	100%	0%	0%	803	737	773
10		इंदौर INDORE	0%	100%	0%	0%	785	732	762
11		जबलपुर JABALPUR	0%	100%	0%	0%	799	718	774
12		कोरडी KORADI	0%	100%	0%	0%	782	730	755
13		पुणे PUNE	0%	100%	0%	0%	800	734	773
14		रायगढ़ पुलिंग RAIGARH POOLING	0%	85%	15%	15%	809	776	793
15		रायपुर पुलिंग RAIPUR POOLING	0%	99%	1%	1%	806	759	785
16		सासन SASAN	0%	100%	0%	0%	787	746	768
17		सतना SATNA	0%	100%	0%	0%	800	745	771
18		सिवनी SEONI	0%	100%	0%	0%	797	750	776
19		सीपत SIPAT	0%	100%	0%	0%	778	748	764
20		सोलापुर SOLAPUR	0%	84%	16%	16%	815	748	789
21		तामनार TAMNAR	0%	84%	16%	16%	809	777	794
22		वडोदरा VADODARA	0%	100%	0%	0%	796	746	773
23		विंध्याचल पुलिंग VINDHYACHAL PS	0%	100%	0%	0%	790	756	770
24		वर्धा WARDHA	0%	98%	2%	2%	810	752	783
1	दक्षिणी क्षेत्र SR	कर्नूल KURNOOL	0%	83%	17%	17%	815	758	790
2		नेल्लूर पुलिंग NELLORE PS	0%	95%	5%	5%	810	760	784
3		रायचूर RAICHUR	0%	81%	19%	19%	815	758	790
4		तिरुवलम THIRUVALEM	0%	74%	26%	26%	823	766	794
1	पूर्वोत्तर क्षेत्र NER	अज़ारा AZARA (400 kV)	0%	100%	0%	0%	414	401	408
2		बालिपारा BALIPARA (400 kV)	0%	99%	1%	1%	426	386	407
3		बिस्वनाथ चरिआलि BISWANATH CHARIALI (400 kV)	18%	13%	68%	87%	760	351	588
4		बोंगाईगाव BONGAIGAON (400 kV)	0%	100%	0%	0%	421	389	406
5		मिसा MISA (400 kV)	0%	96%	4%	4%	427	391	411
6		सिलचर SILCHAR (400 kV)	0%	98%	2%	2%	425	398	412

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

20. List of Tripping of Elements monitored by NLDC for the month of May 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
HVDC - IR									
1	Pusauli	HVDC	ER/NR	TS	17-05-2016 18:18	Tripped during filter switching	17-05-2016 19:29	1:11:00	1
2	Pusauli	HVDC	ER/NR	TS	17-05-2016 18:18	Tripped during filter switching	17-05-2016 19:29	1:11:00	2
3	Pusauli	HVDC	ER/NR	TS	17-05-2016 18:18	PROBLEM IN FILTER BANK	17-05-2016 19:29	1:11:00	3
4	Pusauli	HVDC	ER/NR	TS	18-05-2016 00:21	Software Problem	19-05-2016 17:31	41:10:00	4
5	Pusauli	HVDC	ER/NR	TS	24-05-2016 18:30	Bird Strike on Filter Bank	24-05-2016 19:13	0:43:00	5
6	Pusauli	HVDC	ER/NR	TS	30-05-2016 15:56	ICT failure	30-05-2016 19:08	3:12:00	6
7	Vindhyachal Pole-I	HVDC	WR/NR	SO	01-05-2016 00:00	DC over current protection operated	01-06-2016 00:00	744:00:00	0
8	Vindhyachal Pole-II	HVDC	WR/NR	SE	11-05-2016 12:16	To attend hot spot on 400 kV North bus	11-05-2016 23:22	11:06:00	0
9	Gazuwaka Pole-II	HVDC	ER/SR	SO	01-05-2016 00:00	Flashover	09-05-2016 14:58	206:58:00	0
10	Gazuwaka Pole-II	HVDC	ER/SR	TS	19-05-2016 11:41	Commutation failure	19-05-2016 12:41	1:00:00	1
11	Gazuwaka Pole-I	HVDC	ER/SR	SO	21-05-2016 12:43	Replacement of Insulators	21-05-2016 20:55	8:12:00	0
12	Talcher-Kolar Pole-II	HVDC	ER/SR	SE	22-05-2016 15:12	ATTEND CONDUCTOR CUT AT TERMINAL BUS CONNECTOR OF POLE-2	22-05-2016 21:12	6:00:00	0
13	Gazuwaka Pole-II	HVDC	ER/SR	TP	22-05-2016 21:01	EAST SIDE BUS DIFFERENTIAL PROTECTION OPERATED	25-05-2016 19:12	70:11:00	2
14	Talcher-Kolar Pole-I	HVDC	ER/SR	TS	30-05-2016 09:49	CT blast	30-05-2016 11:45	1:56:00	1
15	Gazuwaka Pole-I	HVDC	ER/SR	ME	30-05-2016 19:01	Evacuating lines out	30-05-2016 19:46	0:45:00	0
16	Gazuwaka Pole-II	HVDC	ER/SR	ME	30-05-2016 19:01	Evacuating lines out	30-05-2016 19:57	0:56:00	2
17	Bhadrawati Pole-I	HVDC	WR/SR	ME	04-05-2016 19:26	Evacuating lines out	05-05-2016 04:40	9:14:00	0
18	Bhadrawati Pole-II	HVDC	WR/SR	ME	04-05-2016 19:26	Evacuating lines out	05-05-2016 03:39	8:13:00	0
19	Bhadrawati Pole-I	HVDC	WR/SR	TS	10-05-2016 09:06	Auxiliary power supply issue	10-05-2016 18:32	9:26:00	1
20	Biswanath Chariali-Agra Pole-I	HVDC	NER/NR	TL	08-05-2016 13:09	Distance Protection Operated	08-05-2016 14:29	1:20:00	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
21	Biswanath Chariali-Agra Pole-I	HVDC	NER/NR	TS	09-05-2016 18:17	Filter tripped at BNC end	09-05-2016 19:55	1:38:00	2
22	Biswanath Chariali-Agra Pole-I	HVDC	NER/NR	TL	11-05-2016 10:58	Distance Protection Operated	11-05-2016 12:09	1:11:00	3
23	Biswanath Chariali-Agra Pole-I	HVDC	NER/NR	SC	12-05-2016 09:42	Erection & integration of DC Yard equipment/ lines for pole 2 both at Agra and BNC end	15-05-2016 00:15	62:33:00	3
24	Biswanath Chariali-Agra Pole-I	HVDC	NER/NR	SE	20-05-2016 17:36	Jumper open on HVDC line in Lucknow	20-05-2016 19:47	2:11:00	3
25	Biswanath Chariali-Agra Pole-I	HVDC	NER/NR	TL	23-05-2016 16:25	Distance Protection Operated	25-05-2016 10:34	42:09:00	4
26	Biswanath Chariali-Agra Pole-I	HVDC	NER/NR	SE	25-05-2016 18:33	Jumper broken	25-05-2016 21:54	3:21:00	4
27	Biswanath Chariali-Agra Pole-I	HVDC	NER/NR	SO	28-05-2016 09:20	Annual Maintenance	28-05-2016 21:17	11:57:00	4
28	Biswanath Chariali-Agra Pole-I	HVDC	NER/NR	TL	29-05-2016 06:05	metallic return ground fault.	29-05-2016 17:24	11:19:00	5
29	Biswanath Chariali-Agra Pole-I	HVDC	NER/NR	SO	30-05-2016 15:30	OLT testing of pole 2 converter	30-05-2016 21:10	5:40:00	5
30	Biswanath Chariali-Agra Pole-I	HVDC	NER/NR	SO	31-05-2016 10:48	OLT testing of pole 2 converter	31-05-2016 23:04	12:16:00	5
31	Biswanath Chariali-Agra Pole-I	HVDC	NER/NR	TL	05-05-2016 12:53	Distance Protection Operated	05-05-2016 14:18	1:25:00	6
HVDC - Internal									
32	Rihand-Dadri Pole-I	HVDC	NR	SC	02-05-2016 08:05	Stringing (Power line crossing) of various under constructed lines	02-05-2016 19:47	11:42:00	0
33	Rihand-Dadri Pole-II	HVDC	NR	SC	02-05-2016 08:05	Stringing (Power line crossing) of various under constructed lines	02-05-2016 19:55	11:50:00	0
34	Rihand-Dadri Pole-I	HVDC	NR	SC	03-05-2016 08:58	Stringing (Power line crossing) of various under constructed lines	03-05-2016 19:16	10:18:00	0
35	Rihand-Dadri Pole-II	HVDC	NR	SC	03-05-2016 09:05	Stringing (Power line crossing) of various under constructed lines	03-05-2016 19:27	10:22:00	0
36	Balia-Bhiwadi Pole-II	HVDC	NR	SE	04-05-2016 11:48	To attend hot spot in DC line isolator at Bhiwadi	05-05-2016 01:28	13:40:00	0
37	Rihand-Dadri Pole-II	HVDC	NR	SE	08-05-2016 06:28	SMOKE ALARM AT VALVE HALL AT RIHAND END.	08-05-2016 15:14	8:46:00	0
38	Balia-Bhiwadi Pole-I	HVDC	NR	TP	21-05-2016 05:10	Change over logic fault	21-05-2016 06:01	0:51:00	1
39	Rihand-Dadri Pole-II	HVDC	NR	SE	21-05-2016 10:12	Thyristor replacement work at Rihand	21-05-2016 16:07	5:55:00	0
40	Balia-Bhiwadi Pole-I	HVDC	NR	TP	23-05-2016 18:30	Change over logic fault	23-05-2016 18:51	0:21:00	2
41	Balia-Bhiwadi Pole-I	HVDC	NR	TL	27-05-2016 16:32	Distance Protection Operated	27-05-2016 16:58	0:26:00	3

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	Balia-Bhiwadi Pole-I	HVDC	NR	TS	30-05-2016 10:06	UPS supply failure	30-05-2016 13:00	2:54:00	4
765 kV - IR									
43	765 kV Sasaram-Fatehpur	Line	ER/NR	SE	05-05-2016 07:29	hand tripped due to sparking in line reactor at fatehpur end.	05-05-2016 09:41	2:12:00	0
44	765 kV Sasaram-Fatehpur	Line	ER/NR	TP	18-05-2016 12:15	DT received.	18-05-2016 13:14	0:59:00	1
45	765 kV Sasaram-Fatehpur	Line	ER/NR	TL	25-05-2016 06:16	Distance Protection Operated	25-05-2016 09:25	3:09:00	2
46	765 kV Gaya-Varanasi-II	Line	ER/NR	TL	07-05-2016 01:24	Distance Protection Operated	07-05-2016 04:34	3:10:00	1
47	765 kV Gaya-Varanasi-II	Line	ER/NR	SE	30-05-2016 15:46	Oil leakage in line reactor	30-05-2016 19:31	3:45:00	1
48	765 kV Gaya-Varanasi-I	Line	ER/NR	TL	25-05-2016 06:16	Distance Protection Operated	25-05-2016 10:03	3:47:00	1
49	765 kV Gaya-Varanasi-I	Line	ER/NR	TL	27-05-2016 12:26	Distance Protection Operated	27-05-2016 18:20	5:54:00	2
50	765 kV Gaya-Varanasi-I	Line	ER/NR	SE	29-05-2016 11:04	To attend hot point on connector	29-05-2016 18:40	7:36:00	2
51	765 kV Gwalior-Phagi-II	Line	WR/NR	TL	21-05-2016 20:21	Distance Protection Operated	21-05-2016 21:06	0:45:00	1
52	765 kV New Ranchi-Dharamjaygarh-II	Line	ER/WR	TL	17-05-2016 18:10	Distance Protection Operated	17-05-2016 19:16	1:06:00	1
53	765 kV New Ranchi-Dharamjaygarh-II	Line	ER/WR	TL	21-05-2016 16:04	Distance Protection Operated	21-05-2016 17:15	1:11:00	2
54	765 kV New Ranchi-Dharamjaygarh-II	Line	ER/WR	TL	21-05-2016 19:04	Distance Protection Operated	21-05-2016 23:08	4:04:00	3
55	765 kV New Ranchi-Dharamjaygarh-II	Line	ER/WR	TL	23-05-2016 14:45	Distance Protection Operated	23-05-2016 16:19	1:34:00	4
56	765 kV Solapur-Raichur-II	Line	WR/SR	TL	18-05-2016 16:56	Distance Protection Operated	18-05-2016 17:43	0:47:00	1
57	765 kV Solapur-Raichur-II	Line	WR/SR	TL	19-05-2016 15:41	Distance Protection Operated	19-05-2016 16:27	0:46:00	2
58	765 kV Solapur-Raichur-I	Line	WR/SR	TL	16-05-2016 22:13	Distance Protection Operated	16-05-2016 23:26	1:13:00	1
59	765 kV Solapur-Raichur-I	Line	WR/SR	TL	18-05-2016 16:56	Distance Protection Operated	18-05-2016 17:35	0:39:00	2
60	765 kV New Ranchi-Dharamjaygarh	Line	ER/WR	TL	21-05-2016 16:14	Distance Protection Operated	21-05-2016 18:03	1:49:00	1
765 kV Internal									
61	765kV Varanasi-Fatehpur-I	Line	NR	SE	09-05-2016 14:20	Sparking on Isolator at Fatehpur End	09-05-2016 18:30	4:10:00	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
62	765kV Varanasi-Fatehpur-I	Line	NR	SE	27-05-2016 10:15	Line hand tripped due to sparking	27-05-2016 15:34	5:19:00	0
63	765kV Phagi-Bhiwani-I	Line	NR	SC	05-05-2016 08:37	Shifting of line on ERS for the erection of D/C towers for stringing of Bhiwani-Phagi-2	11-05-2016 17:45	153:08:00	0
64	765kV Phagi-Bhiwani-I	Line	NR	TL	17-05-2016 14:57	Distance Protection Operated	17-05-2016 15:33	0:36:00	1
65	765kV Phagi-Bhiwani-I	Line	NR	TL	23-05-2016 20:37	Tower collapsed	01-06-2016 00:00	195:23:00	2
66	765kV Moga-Bhiwani(PG)	Line	NR	TL	10-05-2016 18:47	Distance Protection Operated	11-05-2016 03:09	8:22:00	1
67	765kV Meerut-Bhiwani(PG)	Line	NR	MO	05-05-2016 04:48	Opened manually due to High Voltage	05-05-2016 10:38	5:50:00	0
68	765kV Meerut-Bhiwani(PG)	Line	NR	MO	11-05-2016 04:04	Opened manually due to High Voltage	11-05-2016 09:43	5:39:00	0
69	765kV Meerut-Bhiwani(PG)	Line	NR	TL	23-05-2016 14:05	Distance Protection Operated	23-05-2016 14:24	0:19:00	1
70	765kV Meerut-Bhiwani(PG)	Line	NR	TL	23-05-2016 15:06	Distance Protection Operated	23-05-2016 15:16	0:10:00	2
71	765kV Meerut-Bhiwani(PG)	Line	NR	MO	23-05-2016 18:02	Opened manually due to High Voltage	24-05-2016 11:57	17:55:00	2
72	765kV Meerut-Bhiwani(PG)	Line	NR	TL	25-05-2016 10:46	Distance Protection Operated	25-05-2016 17:21	6:35:00	3
73	765kV Meerut-Bhiwani(PG)	Line	NR	MO	29-05-2016 04:30	Opened manually due to High Voltage	30-05-2016 11:47	31:17:00	3
74	765kV Jhatikara-Bhiwani(PG)	Line	NR	TL	02-05-2016 17:04	Distance Protection Operated	02-05-2016 17:40	0:36:00	1
75	765kV Jhatikara-Bhiwani(PG)	Line	NR	SO	04-05-2016 11:32	For rectification of earth wire sag between loc 144-145 on urgent basis	04-05-2016 14:55	3:23:00	1
76	765kV Fatehpur-Agra-II	Line	NR	MO	01-05-2016 17:33	Opened manually due to High Voltage	02-05-2016 09:46	16:13:00	0
77	765kV Fatehpur-Agra-II	Line	NR	MO	05-05-2016 04:50	Opened manually due to High Voltage	05-05-2016 10:53	6:03:00	0
78	765kV Fatehpur-Agra-II	Line	NR	SC	07-05-2016 07:42	For stringing (Power line crossing) of 400kV D/C Allahabad -Kanpur New	07-05-2016 19:38	11:56:00	0
79	765kV Fatehpur-Agra-II	Line	NR	SC	08-05-2016 08:10	For stringing (Power line crossing) of 400kV D/C Allahabad -Kanpur New	08-05-2016 19:14	11:04:00	0
80	765kV Fatehpur-Agra-II	Line	NR	MO	11-05-2016 03:11	Opened manually due to High Voltage	11-05-2016 11:15	8:04:00	0
81	765kV Fatehpur-Agra-II	Line	NR	TL	15-05-2016 20:03	Distance Protection Operated	15-05-2016 20:53	0:50:00	1
82	765kV Fatehpur-Agra-II	Line	NR	MO	23-05-2016 17:46	Opened manually due to High Voltage	24-05-2016 10:11	16:25:00	1
83	765kV Fatehpur-Agra-II	Line	NR	TL	25-05-2016 00:30	Distance Protection Operated	25-05-2016 00:43	0:13:00	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
84	765kV Fatehpur-Agra-II	Line	NR	MO	25-05-2016 07:38	Opened manually due to High Voltage	25-05-2016 12:12	4:34:00	2
85	765kV Fatehpur-Agra-II	Line	NR	TL	25-05-2016 19:37	Distance Protection Operated	26-05-2016 10:12	14:35:00	3
86	765kV Fatehpur-Agra-II	Line	NR		29-05-2016 08:15	For stringing (Powerline crossing) of 400kV D/C Unchahar-Fatehpur lines	29-05-2016 17:40	9:25:00	3
87	765kV Fatehpur-Agra-II	Line	NR	SC	28-05-2016 08:15	For stringing (Powerline crossing) of 400kV D/C Unchahar-Fatehpur lines	28-05-2016 21:08	12:53:00	3
88	765kV Fatehpur-Agra-II	Line	NR	MO	29-05-2016 04:43	Opened manually due to High Voltage	29-05-2016 08:15	3:32:00	3
89	765kV Fatehpur-Agra-II	Line	NR	MO	30-05-2016 04:23	Opened manually due to High Voltage	31-05-2016 09:38	29:15:00	3
90	765kV Fatehpur-Agra-I	Line	NR	TL	12-05-2016 19:03	Distance Protection Operated	19-05-2016 20:23	169:20:00	1
91	765kV Fatehpur-Agra-I	Line	NR	SC	13-05-2016 09:07	For power line crossing of 400 KV D/C Unchahar-Fatehpur	13-05-2016 20:25	11:18:00	1
92	765kV Fatehpur-Agra-I	Line	NR	SC	14-05-2016 09:54	For power line crossing of 400 KV D/C Unchahar-Fatehpur	14-05-2016 19:13	9:19:00	1
93	765kV Fatehpur-Agra-I	Line	NR	SE	24-05-2016 00:01	Manually tripped due to sparking at Fatehpur	24-05-2016 11:39	11:38:00	1
94	765kV Balia-Varanasi	Line	NR	SC	09-05-2016 07:16	stringing at crossing span of earlier 765kV Gaya-Fatehpur line and removal of ERS	13-05-2016 17:46	106:30:00	0
95	765kV Antah-Phagi-II	Line	NR	TL	23-05-2016 19:05	Snaping of earth wire	25-05-2016 13:22	42:17:00	1
96	765kV Antah-Phagi-I	Line	NR	SE	23-05-2016 20:25	Sparking on isolator at Anta	24-05-2016 18:39	22:14:00	0
97	765kV Anpara C-Unnao	Line	NR	SE	27-05-2016 09:45	To attend Oil leakage in B-phase Line reactor	27-05-2016 18:53	9:08:00	0
98	765kV Agra-Jhatikara	Line	NR	TP	18-05-2016 12:52	DT received.	18-05-2016 13:14	0:22:00	1
99	765kV Agra-Jhatikara	Line	NR	SC	19-05-2016 07:03	For stringing (power line crossing) of 765kV S/C Kanpur-Jhatikara line	19-05-2016 21:10	14:07:00	1
100	765kV Agra-Jhatikara	Line	NR	TL	25-05-2016 16:22	Distance Protection Operated	26-05-2016 13:17	20:55:00	2
101	765 kV Moga-Meerut	Line	NR	MO	01-05-2016 16:01	Opened manually due to High Voltage	02-05-2016 09:13	17:12:00	0
102	765 kV Moga-Meerut	Line	NR	TL	13-05-2016 19:19	Tower beam collapsed	24-05-2016 12:49	257:30:00	1
103	765 kV Moga-Meerut	Line	NR	TL	29-05-2016 19:40	Distance Protection Operated	29-05-2016 19:59	0:19:00	2
104	765kV Angul-Jharsuguda-II	Line	ER	SE	03-05-2016 10:13	For tightening of jumper	03-05-2016 14:02	3:49:00	0
105	765kV Angul-Jharsuguda-II	Line	ER	TL	14-05-2016 09:56	Distance Protection Operated	14-05-2016 10:18	0:22:00	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
106	765kV Angul-Jharsuguda-II	Line	ER	SO	17-05-2016 07:10	LA conductor change & bushing tan delta measurement	17-05-2016 19:16	12:06:00	1
107	765kV Angul-Jharsuguda-II	Line	ER	TP	31-05-2016 10:41	Tripped while checking earth fault	31-05-2016 11:17	0:36:00	2
108	765kV Angul-Jharsuguda-I	Line	ER	TL	01-05-2016 13:24	Distance Protection Operated	01-05-2016 14:38	1:14:00	1
109	765kV Angul-Jharsuguda-I	Line	ER	TS	02-05-2016 09:54	Reactor problem at Jharsugda	02-05-2016 11:49	1:55:00	2
110	765kV Angul-Jharsuguda-I	Line	ER	TP	03-05-2016 12:55	DT received (Line tripped only at Angul end)	03-05-2016 13:05	0:10:00	3
111	765kV Angul-Jharsuguda-I	Line	ER	TL	08-05-2016 13:14	Distance Protection Operated	08-05-2016 13:41	0:27:00	4
112	765kV Angul-Jharsuguda-I	Line	ER	SO	19-05-2016 07:05	Damaged jumper replacement	19-05-2016 20:20	13:15:00	4
113	765kV Angul-Jharsuguda-I	Line	ER	SE	28-05-2016 13:06	Spark observed on Jumper Connector from Jack Bus in B Phase Line isolator	28-05-2016 15:33	2:27:00	4
114	765kV Wardha-Aurangabad-IV	Line	WR	MO	02-05-2016 16:15	Opened manually due to High Voltage	04-05-2016 10:37	42:22:00	0
115	765kV Wardha-Aurangabad-IV	Line	WR	MO	08-05-2016 17:23	Opened manually due to High Voltage	09-05-2016 15:37	22:14:00	0
116	765kV Wardha-Aurangabad-IV	Line	WR	MO	24-05-2016 16:57	Opened manually due to High Voltage	26-05-2016 06:46	37:49:00	0
117	765kV Wardha-Aurangabad-IV	Line	WR	MO	26-05-2016 21:13	Opened manually due to High Voltage	27-05-2016 10:21	13:08:00	0
118	765kV Wardha-Aurangabad-III	Line	WR	MO	01-05-2016 10:20	Opened manually due to High Voltage	02-05-2016 09:56	23:36:00	0
119	765kV Wardha-Aurangabad-III	Line	WR	MO	04-05-2016 16:28	Opened manually due to High Voltage	06-05-2016 19:30	51:02:00	0
120	765kV Wardha-Aurangabad-III	Line	WR	MO	10-05-2016 17:32	Opened manually due to High Voltage	11-05-2016 10:29	16:57:00	0
121	765kV Wardha-Aurangabad-III	Line	WR	MO	12-05-2016 16:28	Opened manually due to High Voltage	17-05-2016 07:47	111:19:00	0
122	765kV Wardha-Aurangabad-III	Line	WR	MO	19-05-2016 01:18	Opened manually due to High Voltage	20-05-2016 06:01	28:43:00	0
123	765kV Wardha-Aurangabad-II	Line	WR	TV	02-05-2016 18:02	Tripped on Over Voltage	02-05-2016 22:35	4:33:00	1
124	765kV Wardha-Aurangabad-II	Line	WR	MO	07-05-2016 16:32	Opened manually due to High Voltage	09-05-2016 06:38	38:06:00	1
125	765kV Wardha-Aurangabad-II	Line	WR	MO	09-05-2016 17:01	Opened manually due to High Voltage	10-05-2016 10:05	17:04:00	1
126	765kV Wardha-Aurangabad-II	Line	WR	MO	20-05-2016 01:12	Opened manually due to High Voltage	24-05-2016 07:27	102:15:00	1
127	765kV Wardha-Aurangabad-II	Line	WR	MO	25-05-2016 17:44	Opened manually due to High Voltage	27-05-2016 07:35	37:51:00	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
128	765kV Wardha-Aurangabad-II	Line	WR	MO	30-05-2016 17:15	Opened manually due to High Voltage	31-05-2016 08:36	15:21:00	1
129	765kV Wardha-Aurangabad-I	Line	WR	TV	01-05-2016 00:00	Tripped on Over Voltage	02-05-2016 07:14	31:14:00	1
130	765kV Wardha-Aurangabad-I	Line	WR	TV	04-05-2016 18:00	Tripped on Over Voltage	04-05-2016 19:24	1:24:00	2
131	765kV Wardha-Aurangabad-I	Line	WR	TV	05-05-2016 18:02	Tripped on Over Voltage	05-05-2016 18:38	0:36:00	3
132	765kV Wardha-Aurangabad-I	Line	WR	TV	06-05-2016 04:00	Tripped on Over Voltage	06-05-2016 06:46	2:46:00	4
133	765kV Wardha-Aurangabad-I	Line	WR	TV	06-05-2016 18:01	Tripped on Over Voltage	07-05-2016 10:38	16:37:00	5
134	765kV Wardha-Aurangabad-I	Line	WR	TV	11-05-2016 17:32	Tripped on Over Voltage	12-05-2016 08:24	14:52:00	6
135	765kV Wardha-Aurangabad-I	Line	WR	MO	17-05-2016 19:12	Opened manually due to High Voltage	18-05-2016 07:51	12:39:00	6
136	765kV Wardha-Aurangabad-I	Line	WR	MO	18-05-2016 16:14	Opened manually due to High Voltage	19-05-2016 08:18	16:04:00	6
137	765kV Wardha-Aurangabad-I	Line	WR	TV	20-05-2016 17:13	Tripped on Over Voltage	20-05-2016 19:42	2:29:00	7
138	765kV Wardha-Aurangabad-I	Line	WR	MO	27-05-2016 13:39	Opened manually due to High Voltage	30-05-2016 10:33	68:54:00	7
139	765kV Wardha-Aurangabad-I	Line	WR	MO	31-05-2016 17:06	Opened manually due to High Voltage	01-06-2016 00:00	6:54:00	7
140	765kV Vindhyachal-Satna-II	Line	WR	TL	03-05-2016 21:06	Distance Protection Operated	03-05-2016 23:59	2:53:00	1
141	765kV Vindhyachal-Satna-II	Line	WR	TL	25-05-2016 12:02	Distance Protection Operated	25-05-2016 12:29	0:27:00	2
142	765kV Vindhyachal-Satna-II	Line	WR	SE	26-05-2016 12:33	Jumper Problem	26-05-2016 18:13	5:40:00	2
143	765kV Vindhyachal-Satna-I	Line	WR	SO	28-05-2016 13:09	Hot spot	28-05-2016 18:22	5:13:00	0
144	765kV Tirora-Koradi-II	Line	WR	SO	20-05-2016 09:38	conductor repairing work	20-05-2016 20:05	10:27:00	0
145	765kV Tirora-Koradi-I	Line	WR	SO	26-05-2016 09:22	Annual Maintenance	26-05-2016 21:50	12:28:00	0
146	765kV Sipat-Bilaspur-I	Line	WR	SO	30-05-2016 12:32	Replacement of Line LMU unit	30-05-2016 16:56	4:24:00	0
147	765kV Seoni-Wardha-II	Line	WR	SE	04-05-2016 10:37	Emergency shutdown	04-05-2016 13:54	3:17:00	0
148	765kV Seoni-Wardha-I	Line	WR	SO	27-05-2016 10:06	Insulator replacement work at NH and Railway crossing.	27-05-2016 19:41	9:35:00	0
149	765kV Seoni-Wardha-I	Line	WR	MO	29-05-2016 17:36	Opened manually due to High Voltage	30-05-2016 07:25	13:49:00	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
150	765kV Seoni-Bilaspur-II	Line	WR	SO	12-05-2016 08:13	Replacement of insulator of NH crossing	12-05-2016 20:09	11:56:00	0
151	765kV Seoni-Bilaspur-II	Line	WR	SE	13-05-2016 09:24	Replacement of insulator of NH crossing	14-05-2016 14:24	29:00:00	0
152	765kV Seoni-Bilaspur-II	Line	WR	TP	30-05-2016 12:42	DT received.	30-05-2016 13:13	0:31:00	1
153	765kV Seoni-Bilaspur-I	Line	WR	SE	13-05-2016 08:20	Replacement of insulator of NH crossing	13-05-2016 08:55	0:35:00	0
154	765kV Seoni-Bilaspur-I	Line	WR	SE	19-05-2016 12:11	To rectify hot spot	19-05-2016 20:15	8:04:00	0
155	765kV Satna-Gwalior-II	Line	WR	SO	08-05-2016 10:19	Line isolator alingement	08-05-2016 20:31	10:12:00	0
156	765kV Satna-Gwalior-II	Line	WR	TL	25-05-2016 09:43	Distance Protection Operated	25-05-2016 10:07	0:24:00	1
157	765kV Satna-Gwalior-II	Line	WR	TL	25-05-2016 11:48	Distance Protection Operated	25-05-2016 12:24	0:36:00	2
158	765kV Satna-Gwalior-II	Line	WR	TL	25-05-2016 12:38	Distance Protection Operated	25-05-2016 13:37	0:59:00	3
159	765kV Satna-Gwalior-I	Line	WR	TL	21-05-2016 18:12	Distance Protection Operated	21-05-2016 19:29	1:17:00	1
160	765kV Satna-Gwalior-I	Line	WR	TL	21-05-2016 18:12	Distance Protection Operated	21-05-2016 19:36	1:24:00	2
161	765kV Satna-Gwalior-I	Line	WR	TL	25-05-2016 11:48	Distance Protection Operated	25-05-2016 12:15	0:27:00	3
162	765kV Satna-Gwalior-I	Line	WR	TL	25-05-2016 12:38	Distance Protection Operated	25-05-2016 13:28	0:50:00	4
163	765kV Sasan-Satna-II	Line	WR	TL	21-05-2016 19:36	Distance Protection Operated	22-05-2016 06:39	11:03:00	1
164	765kV Sasan-Satna-II	Line	WR	SO	24-05-2016 22:14	restoring L/R at Satna end	24-05-2016 22:33	0:19:00	1
165	765kV Sasan-Satna-I	Line	WR	TL	15-05-2016 16:32	Distance Protection Operated	15-05-2016 17:19	0:47:00	1
166	765kV Sasan-Satna-I	Line	WR	TL	23-05-2016 15:35	Distance Protection Operated	23-05-2016 21:52	6:17:00	2
167	765kV Raigarh-PS(Kotra)-Raipur-PS(Durg)-II	Line	WR	SO	17-05-2016 09:34	Annual Maintenance	17-05-2016 22:07	12:33:00	0
168	765kV Raigarh-PS(Kotra)-Raipur-PS(Durg)-II	Line	WR	SE	28-05-2016 19:23	R-PH CVT JUMPER OPEN AT KOTRA	29-05-2016 20:37	25:14:00	0
169	765kV Raigarh-PS(Kotra)-Raipur-PS(Durg)-II	Line	WR	MO	30-05-2016 18:02	Opened manually due to High Voltage	01-06-2016 00:00	29:58:00	0
170	765kV Raigarh-PS(Kotra)-Raipur-PS(Durg)-I	Line	WR	MO	14-05-2016 17:57	Opened manually due to High Voltage	17-05-2016 06:46	60:49:00	0
171	765kV Raigarh-PS(Kotra)-Raipur-PS(Durg)-I	Line	WR	MO	20-05-2016 17:50	Opened manually due to High Voltage	28-05-2016 11:26	185:36:00	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
172	765kV Raigarh-PS(Kotra)-Raipur-PS(Durg)-I	Line	WR	MO	29-05-2016 20:37	Opened manually due to High Voltage	30-05-2016 08:33	11:56:00	0
173	765kV Pune-Sholapur	Line	WR	TV	01-05-2016 18:01	Tripped on Over Voltage	02-05-2016 07:00	12:59:00	1
174	765kV Pune-Sholapur	Line	WR	MO	17-05-2016 04:05	Opened manually due to High Voltage	17-05-2016 06:44	2:39:00	1
175	765kV Pune-Sholapur	Line	WR	TL	24-05-2016 18:25	Distance Protection Operated	24-05-2016 19:00	0:35:00	2
176	765kV Jabalpur-Dharamjaigarh-IV	Line	WR	SE	18-05-2016 15:02	To rectify isolator mal-functioning	01-06-2016 00:00	320:58:00	0
177	765kV Jabalpur-Dharamjaigarh-IV	Line	WR	SC	24-05-2016 13:48	For power line crossing of under construction 765kv D/C Dharamjaigad-Jharsududa Line -2 .	26-05-2016 20:04	54:16:00	0
178	765kV Jabalpur-Dharamjaigarh-III	Line	WR	TL	21-05-2016 15:16	Distance Protection Operated	21-05-2016 17:04	1:48:00	1
179	765kV Jabalpur-Dharamjaigarh-III	Line	WR	SC	24-05-2016 12:29	For power line crossing of under construction 765kv D/C Dharamjaigad-Jharsududa Line -2 .	26-05-2016 20:04	55:35:00	1
180	765kV Jabalpur-Dharamjaigarh-II	Line	WR	TL	24-05-2016 17:46	Distance Protection Operated	24-05-2016 18:39	0:53:00	1
181	765kV Jabalpur-Dharamjaigarh-I	Line	WR	MO	01-05-2016 00:00	Opened manually due to High Voltage	24-05-2016 11:53	563:53:00	0
182	765kV Jabalpur-Bhopal	Line	WR	TL	29-05-2016 15:20	Distance Protection Operated	29-05-2016 16:34	1:14:00	1
183	765kV Jabalpur-Bhopal	Line	WR	TL	29-05-2016 17:14	Distance Protection Operated	29-05-2016 17:40	0:26:00	2
184	765kV Indore-Vadodara	Line	WR	SE	10-05-2016 12:33	For rectification of damaged tie bay isolator of 765 KV Indore-vadodara	11-05-2016 00:14	11:41:00	0
185	765kV Indore-Vadodara	Line	WR	TP	11-05-2016 14:40	Line reactor NRV(Non return valve) mal operation	11-05-2016 16:10	1:30:00	1
186	765kV Indore-Bhopal	Line	WR	TL	09-05-2016 14:47	Distance Protection Operated	09-05-2016 15:02	0:15:00	1
187	765kV Indore-Bhopal	Line	WR	TL	09-05-2016 22:03	Distance Protection Operated	10-05-2016 18:15	20:12:00	2
188	765kV Durg-Wardha-II	Line	WR	TL	20-05-2016 17:14	Distance Protection Operated	20-05-2016 18:41	1:27:00	1
189	765kV Durg-Wardha-I	Line	WR	SE	25-05-2016 09:25	Jumper Rectification	25-05-2016 19:23	9:58:00	0
190	765kV Durg-Wardha-I	Line	WR	TS	26-05-2016 16:01	Gantry suspension string broken at Durg	26-05-2016 19:38	3:37:00	1
191	765kV Dhule-Vadodara	Line	WR	MO	06-05-2016 16:56	Opened manually due to High Voltage	06-05-2016 19:56	3:00:00	0
192	765kV Dhule-Vadodara	Line	WR	MO	10-05-2016 03:38	Opened manually due to High Voltage	10-05-2016 06:57	3:19:00	0
193	765kV Dhule-Vadodara	Line	WR	MO	22-05-2016 17:59	Opened manually due to High Voltage	23-05-2016 06:43	12:44:00	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
194	765kV Dhule-Vadodara	Line	WR	SO	29-05-2016 10:15	Annual Maintenance	29-05-2016 12:19	2:04:00	0
195	765kV Dhule-Vadodara	Line	WR	MO	29-05-2016 17:48	Opened manually due to High Voltage	30-05-2016 06:44	12:56:00	0
196	765kV Dharamjaigarh-Raipur-PS(DURG)	Line	WR	TL	21-05-2016 16:13	Distance Protection Operated	21-05-2016 17:14	1:01:00	1
197	765kV Bina-Jabalpur-III	Line	WR	TL	21-05-2016 14:51	Distance Protection Operated	21-05-2016 16:09	1:18:00	1
198	765kV Bina-Jabalpur-III	Line	WR	TL	24-05-2016 00:39	Distance Protection Operated	24-05-2016 01:14	0:35:00	2
199	765kV Bina-Jabalpur-II	Line	WR	TL	29-05-2016 15:19	Distance Protection Operated	29-05-2016 16:17	0:58:00	1
200	765kV Bina-Jabalpur-I	Line	WR	TL	29-05-2016 15:16	Distance Protection Operated	29-05-2016 18:50	3:34:00	1
201	765kV Bina-Indore	Line	WR	SE	05-05-2016 18:00	Problem in Reactor at Bina	05-05-2016 20:39	2:39:00	0
202	765kV Bina-Indore	Line	WR	TL	14-05-2016 15:14	Distance Protection Operated	14-05-2016 16:57	1:43:00	1
203	765kV Bina-Indore	Line	WR	TL	30-05-2016 14:08	Distance Protection Operated	30-05-2016 16:08	2:00:00	2
204	765kV Bina-Gwalior-III	Line	WR	TL	21-05-2016 20:33	Distance Protection Operated	30-05-2016 23:31	218:58:00	1
205	765kV Bina-Gwalior-I	Line	WR	MO	11-05-2016 04:09	Opened manually due to High Voltage	12-05-2016 06:46	26:37:00	0
206	765kV Akola-Koradi-I	Line	WR	TP	06-05-2016 19:24	PRD RELAY MALFUNCTIONING AT AKOLA	06-05-2016 20:26	1:02:00	1
207	765 kV Kotra-Champa-I	Line	WR	TL	13-05-2016 19:19	Distance Protection Operated	13-05-2016 20:17	0:58:00	1
208	765 kV Kotra-Champa-I	Line	WR	MO	17-05-2016 22:40	Opened manually due to High Voltage	19-05-2016 16:56	42:16:00	1
209	765 kV Durg-Champa-I	Line	WR	MO	01-05-2016 00:00	Opened manually due to High Voltage	09-05-2016 11:05	203:05:00	0
210	765 kV Durg-Champa-I	Line	WR	TL	28-05-2016 18:17	Distance Protection Operated	28-05-2016 19:32	1:15:00	1
211	765kV Raichur-Kurnool-II	Line	SR	MO	18-05-2016 17:08	Opened manually due to High Voltage	19-05-2016 10:32	17:24:00	0
212	765kV Raichur-Kurnool-II	Line	SR	MO	19-05-2016 21:38	Opened manually due to High Voltage	21-05-2016 14:39	41:01:00	0
213	765kV Raichur-Kurnool-II	Line	SR	MO	24-05-2016 01:15	Opened manually due to High Voltage	24-05-2016 05:39	4:24:00	0
214	765kV Raichur-Kurnool-II	Line	SR	MO	28-05-2016 18:03	Opened manually due to High Voltage	28-05-2016 21:30	3:27:00	0
215	765kV Raichur-Kurnool-II	Line	SR	MO	29-05-2016 03:32	Opened manually due to High Voltage	29-05-2016 06:29	2:57:00	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
216	765kV Raichur-Kurnool-I	Line	SR	SE	11-05-2016 13:27	LMU REPLACEMENT	11-05-2016 15:18	1:51:00	0
217	765kV Raichur-Kurnool-I	Line	SR	MO	29-05-2016 18:00	Opened manually due to High Voltage	30-05-2016 07:26	13:26:00	0
218	765kV Raichur-Kurnool-I	Line	SR	MO	31-05-2016 00:46	Opened manually due to High Voltage	31-05-2016 07:18	6:32:00	0
219	765kV Kurnool-Thiruvalem-II	Line	SR	MO	01-05-2016 00:00	Opened manually due to High Voltage	03-05-2016 11:47	59:47:00	0
220	765kV Kurnool-Thiruvalem-II	Line	SR	TV	06-05-2016 14:44	Tripped on Over Voltage	19-05-2016 09:47	307:03:00	1
221	765kV Kurnool-Thiruvalem-II	Line	SR	MO	19-05-2016 23:11	Opened manually due to High Voltage	21-05-2016 07:06	31:55:00	1
222	765kV Kurnool-Thiruvalem-II	Line	SR	MO	22-05-2016 02:46	Opened manually due to High Voltage	22-05-2016 07:47	5:01:00	1
223	765kV Kurnool-Thiruvalem-II	Line	SR	MO	23-05-2016 00:54	Opened manually due to High Voltage	23-05-2016 10:05	9:11:00	1
224	765kV Kurnool-Thiruvalem-I	Line	SR	MO	03-05-2016 12:09	Opened manually due to High Voltage	06-05-2016 10:33	70:24:00	0
225	765kV Kurnool-Thiruvalem-I	Line	SR	MO	19-05-2016 03:12	Opened manually due to High Voltage	01-06-2016 00:00	308:48:00	0
226	765kV Kurnool-Nellore(PS)-II	Line	SR	MO	04-05-2016 18:16	Opened manually due to High Voltage	09-05-2016 10:20	112:04:00	0
227	765kV Kurnool-Nellore(PS)-II	Line	SR	MO	10-05-2016 17:03	Opened manually due to High Voltage	01-06-2016 00:00	510:57:00	0
228	765kV Kurnool-Nellore(PS)-I	Line	SR	MO	01-05-2016 00:00	Opened manually due to High Voltage	10-05-2016 12:04	228:04:00	0
400kV - IR									
229	400 kV Varanasi-Biharshariff-II	Line	ER/NR	SC	16-05-2016 11:35	Construction of new bay	16-05-2016 19:45	8:10:00	0
230	400 kV Varanasi-Biharshariff-I	Line	ER/NR	TL	07-05-2016 01:23	Distance Protection Operated	07-05-2016 05:22	3:59:00	1
231	400 kV Sasaram-Sarnath	Line	ER/NR	SC	11-05-2016 08:55	For stringing (powering crossing) of 400kv D/C Varanasi PG-Sarnath UP lines	11-05-2016 23:25	14:30:00	0
232	400 kV Sasaram-Sarnath	Line	ER/NR	SC	12-05-2016 08:46	For stringing (powering crossing) of 400kv D/C Varanasi PG-Sarnath UP lines	12-05-2016 23:31	14:45:00	0
233	400 kV Sasaram-Allahabad	Line	ER/NR	SC	11-05-2016 08:46	For stringing (powering crossing) of 400kv D/C Varanasi PG-Sarnath UP lines	11-05-2016 21:08	12:22:00	0
234	400 kV Sasaram-Allahabad	Line	ER/NR	SC	12-05-2016 08:46	For stringing (powering crossing) of 400kv D/C Varanasi PG-Sarnath UP lines	12-05-2016 23:23	14:37:00	0
235	400 kV Muzaffarpur-Gorakhpur-II	Line	ER/NR	TV	29-05-2016 01:30	Tripped on High voltage	29-05-2016 03:49	2:19:00	1
236	400 kV Muzaffarpur-Gorakhpur-II	Line	ER/NR	MO	29-05-2016 05:21	Opened manually due to High Voltage	29-05-2016 12:41	7:20:00	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
237	400 kV Muzaffarpur-Gorakhpur-I	Line	ER/NR	TL	21-05-2016 03:32	Distance Protection Operated	21-05-2016 04:40	1:08:00	1
238	400 kV Muzaffarpur-Gorakhpur-I	Line	ER/NR	TV	29-05-2016 01:30	Tripped on High voltage	29-05-2016 02:44	1:14:00	2
239	400 kV Barh-Gorakhpur-II	Line	ER/NR	SO	09-05-2016 08:16	For replacement of insulators (damaged by miscreants)	09-05-2016 20:42	12:26:00	0
240	400 kV Barh-Gorakhpur-II	Line	ER/NR	SO	10-05-2016 08:13	For replacement of insulators (damaged by miscreants)	10-05-2016 20:01	11:48:00	0
241	400 kV Barh-Gorakhpur-II	Line	ER/NR	MO	21-05-2016 04:48	Opened manually due to High Voltage	21-05-2016 23:42	18:54:00	0
242	400 kV Barh-Gorakhpur-I	Line	ER/NR	SO	07-05-2016 07:52	For replacement of insulators (damaged by miscreants)	07-05-2016 20:53	13:01:00	0
243	400 kV Barh-Gorakhpur-I	Line	ER/NR	SO	08-05-2016 08:19	For replacement of insulators (damaged by miscreants)	08-05-2016 20:43	12:24:00	0
244	400 kV Barh-Gorakhpur-I	Line	ER/NR	MO	29-05-2016 04:40	Opened manually due to High Voltage	29-05-2016 11:46	7:06:00	0
245	400 kV Sterlite-Raigarh	Line	ER/WR	TL	23-05-2016 16:35	Distance Protection Operated	23-05-2016 17:37	1:02:00	1
246	400 kV Ranchi-Sipat-II	Line	ER/WR	SO	05-05-2016 09:04	Annual Maintenance	05-05-2016 21:04	12:00:00	0
247	400 kV Ranchi-Sipat-II	Line	ER/WR	SO	06-05-2016 09:05	Annual Maintenance	06-05-2016 20:37	11:32:00	0
248	400 kV Ranchi-Sipat-II	Line	ER/WR	TL	16-05-2016 19:32	Distance Protection Operated	17-05-2016 08:21	12:49:00	1
249	400 kV Ranchi-Sipat-II	Line	ER/WR	SE	20-05-2016 12:25	Emergency shutdown	20-05-2016 15:32	3:07:00	1
250	400 kV Ranchi-Sipat-II	Line	ER/WR	TL	23-05-2016 14:01	Distance Protection Operated	23-05-2016 19:45	5:44:00	2
251	400 kV Ranchi-Sipat-I	Line	ER/WR	SO	02-05-2016 12:34	Installation of of online drying out unit in Reactor	02-05-2016 16:10	3:36:00	0
252	400 kV Ranchi-Sipat-I	Line	ER/WR	SE	09-05-2016 18:12	To install online dry out system on L/R	09-05-2016 19:34	1:22:00	0
253	400 kV Ranchi-Sipat-I	Line	ER/WR	SO	16-05-2016 10:50	Diamond formation of E/W	16-05-2016 18:05	7:15:00	0
254	400 kV IBEUL-Raigarh-I	Line	ER/WR	TL	13-05-2016 01:08	Distance Protection Operated	13-05-2016 02:37	1:29:00	1
255	400 kV IBEUL-Raigarh-I	Line	ER/WR	SO	15-05-2016 07:33	For jumper repairing work	15-05-2016 12:23	4:50:00	1
256	400 kV IBEUL-Raigarh-I	Line	ER/WR	TL	17-05-2016 01:05	Distance Protection Operated	17-05-2016 01:41	0:36:00	2
257	400 kV IBEUL-Raigarh-I	Line	ER/WR	TL	21-05-2016 18:02	Distance Protection Operated	21-05-2016 20:15	2:13:00	3
258	400 kV Siliguri-Bongaigaon-IV	Line	ER/NER	TL	04-05-2016 08:40	Distance Protection Operated	04-05-2016 12:24	3:44:00	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
259	400 kV Siliguri-Bongaigaon-IV	Line	ER/NER	TL	26-05-2016 15:16	Distance Protection Operated	30-05-2016 08:02	88:46:00	2
260	400 kV Siliguri-Bongaigaon-III	Line	ER/NER	MO	08-05-2016 14:11	Opened manually due to High Voltage	08-05-2016 19:34	5:23:00	0
261	400 kV Siliguri-Bongaigaon-III	Line	ER/NER	MO	11-05-2016 11:34	Opened manually due to High Voltage	11-05-2016 12:24	0:50:00	0
262	400 kV Siliguri-Bongaigaon-III	Line	ER/NER	MO	21-05-2016 04:42	Opened manually due to High Voltage	25-05-2016 15:41	106:59:00	0
263	765 kV Gwalior-Agra-I	Line	WR/NR	SO	18-05-2016 12:32	To attend the conductor strands of the line isolator dropper of B phase of 765 KV Gwalior - Agra line -1	18-05-2016 15:44	3:12:00	0
264	400 kV Zerda-Bhinmal	Line	WR/NR	TL	20-05-2016 05:27	Distance Protection Operated	20-05-2016 06:06	0:39:00	1
265	400 kV Jeypore-Gazuwaka-II	Line	ER/SR	SE	03-05-2016 09:38	Insulator Maintenance	03-05-2016 21:59	12:21:00	0
266	400 kV Jeypore-Gazuwaka-II	Line	ER/SR	SE	03-05-2016 22:39	Interzone fault	05-05-2016 23:01	48:22:00	0
267	400 kV Jeypore-Gazuwaka-II	Line	ER/SR	TS	16-05-2016 15:34	Teed Protection operated	16-05-2016 16:31	0:57:00	1
268	400 kV Jeypore-Gazuwaka-II	Line	ER/SR	TV	30-05-2016 19:01	Tripped on Over Voltage	30-05-2016 19:30	0:29:00	2
269	400 kV Jeypore-Gazuwaka-I	Line	ER/SR	SO	05-05-2016 08:13	Replacement of Insulators	05-05-2016 20:18	12:05:00	0
270	400 kV Jeypore-Gazuwaka-I	Line	ER/SR	SO	06-05-2016 08:01	Replacement of Insulators	06-05-2016 17:14	9:13:00	0
271	400 kV Jeypore-Gazuwaka-I	Line	ER/SR	SO	21-05-2016 12:45	Replacement of Insulators	21-05-2016 21:32	8:47:00	0
272	400 kV Jeypore-Gazuwaka-I	Line	ER/SR	TL	30-05-2016 19:01	Distance Protection Operated	30-05-2016 23:25	4:24:00	1
273	400 kV Bhadrawati-Ramagundam-II	Line	WR/SR	TL	04-05-2016 19:26	Distance Protection Operated	05-05-2016 21:33	26:07:00	1
274	400 kV Bhadrawati-Ramagundam-II	Line	WR/SR	TP	06-05-2016 00:12	Line Reactor Buchholz mal-operated	06-05-2016 01:35	1:23:00	2
275	400 kV Bhadrawati-Ramagundam-II	Line	WR/SR	MO	19-05-2016 08:03	Opened manually due to High Voltage	19-05-2016 10:22	2:19:00	2
276	400 kV Bhadrawati-Ramagundam-II	Line	WR/SR	TL	21-05-2016 03:39	Distance Protection Operated	21-05-2016 04:24	0:45:00	3
277	400 kV Bhadrawati-Ramagundam-I	Line	WR/SR	TL	04-05-2016 19:16	Distance Protection Operated	04-05-2016 20:20	1:04:00	1
278	400 kV Bhadrawati-Ramagundam-I	Line	WR/SR	TV	05-05-2016 01:59	Tripped on Over Voltage	05-05-2016 03:00	1:01:00	2
279	400 kV Behramara-Behrampore-II	Line	Bangladesh	SE	04-05-2016 17:51	Corona ring damage in Behrampur S/S	04-05-2016 19:36	1:45:00	0
280	400 kV Behramara-Behrampore-II	Line	Bangladesh	TP	15-05-2016 20:02	Tripped at Behramara end only	15-05-2016 20:08	0:06:00	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
281	400 kV Tala - Binaguri - IV	Line	Bhutan	SO	04-05-2016 08:30	Energy meter testing	04-05-2016 17:03	8:33:00	0
282	400 kV Tala - Binaguri - IV	Line	Bhutan	TL	17-05-2016 00:25	Distance Protection Operated	17-05-2016 00:41	0:16:00	1
283	400 kV Tala - Binaguri - IV	Line	Bhutan	SO	25-05-2016 12:54	Re-setting of DPR	25-05-2016 16:27	3:33:00	1
284	400 kV Tala - Binaguri - II	Line	Bhutan	SO	03-05-2016 11:55	Energy meter testing	03-05-2016 16:55	5:00:00	0
285	400 kV Tala - Binaguri - I	Line	Bhutan	SO	03-05-2016 17:31	Energy meter testing	03-05-2016 19:34	2:03:00	0
286	400 kV Tala - Binaguri - I	Line	Bhutan	SO	25-05-2016 08:50	Re-setting of DPR	25-05-2016 12:35	3:45:00	0
287	400 kV Malbase - Binaguri - I	Line	Bhutan	SO	15-05-2016 10:03	For conductor repairing work	15-05-2016 15:02	4:59:00	0
288	400 kV Malbase - Binaguri - I	Line	Bhutan	SO	16-05-2016 09:21	For conductor repairing work	16-05-2016 17:41	8:20:00	0
289	400 kV Malbase - Binaguri - I	Line	Bhutan	SO	17-05-2016 08:45	For conductor repairing work	17-05-2016 18:53	10:08:00	0
290	400 kV Malbase - Binaguri - I	Line	Bhutan	SO	18-05-2016 12:05	For conductor repairing work	18-05-2016 18:07	6:02:00	0
291	400 kV Malbase - Binaguri - I	Line	Bhutan	SO	19-05-2016 09:00	For conductor repairing work	19-05-2016 19:32	10:32:00	0
292	400 kV Malbase - Binaguri - I	Line	Bhutan	SO	20-05-2016 08:01	For conductor repairing work	20-05-2016 20:34	12:33:00	0
220 kV - IR									
293	220 kV Malbase - Birpara	Line	Bhutan	TL	15-05-2016 21:28	Distance Protection Operated	15-05-2016 21:55	0:27:00	1
294	220 kV Chukha - Birpara - II	Line	Bhutan	TL	12-05-2016 12:53	Distance Protection Operated	12-05-2016 13:15	0:22:00	1
295	220 kV Chukha - Birpara - I	Line	Bhutan	TL	12-05-2016 12:53	Distance Protection Operated	12-05-2016 13:15	0:22:00	1
296	220 kV Chukha - Birpara - I	Line	Bhutan	TL	15-05-2016 21:28	Distance Protection Operated	15-05-2016 21:51	0:23:00	2
297	220 kV Pusauli-Sahupuri	Line	ER/NR	TL	08-05-2016 12:10	Distance Protection Operated	08-05-2016 13:39	1:29:00	1
298	220 kV Pusauli-Sahupuri	Line	ER/NR	TL	18-05-2016 14:18	Distance Protection Operated	18-05-2016 15:01	0:43:00	2
299	220 kV Pusauli-Sahupuri	Line	ER/NR	TL	23-05-2016 16:45	Distance Protection Operated	23-05-2016 23:41	6:56:00	3
300	220 kV Pusauli-Sahupuri	Line	ER/NR	SE	30-05-2016 16:01	Hand tripped at Sahupuri end	31-05-2016 02:38	10:37:00	3
301	220 kV Budhipadar-Raigarh	Line	ER/WR	SO	13-05-2016 06:07	Replacement of old & defective 220 kV C.T of R-Phase of the Bay	13-05-2016 19:19	13:12:00	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
302	220 kV Budhipadar-Korba-II	Line	ER/WR	TL	04-05-2016 17:37	Distance Protection Operated	04-05-2016 19:42	2:05:00	1
303	220 kV Budhipadar-Korba-II	Line	ER/WR	SE	21-05-2016 10:35	red hotspot in R-Phase T joint near main conductor	21-05-2016 15:23	4:48:00	1
304	220 kV Budhipadar-Korba-II	Line	ER/WR	SE	21-05-2016 21:13	Attend Hot spot in R phase suspension clamp at Korba end	22-05-2016 13:37	16:24:00	1
305	220 kV Mehgaon-Auraiya	Line	WR/NR	TL	22-05-2016 05:45	Distance Protection Operated	22-05-2016 12:17	6:32:00	1
306	220 kV Malanpur-Auraiya	Line	WR/NR	SO	10-05-2016 09:25	Line maintenance work	10-05-2016 18:08	8:43:00	0
307	220 kV Malanpur-Auraiya	Line	WR/NR	TL	20-05-2016 23:38	Distance Protection Operated	21-05-2016 01:25	1:47:00	1
308	220 kV Badod-Modak	Line	WR/NR	TL	17-05-2016 12:30	Distance Protection Operated	17-05-2016 13:50	1:20:00	1
309	220 kV Badod-Kota	Line	WR/NR	TL	17-05-2016 12:54	Distance Protection Operated	17-05-2016 16:52	3:58:00	1
310	220 kV Badod-Kota	Line	WR/NR	TS	19-05-2016 23:12	CT blast	20-05-2016 02:07	2:55:00	2
311	B/R-II at Jharsuguda	Bus Reactor	ER	SO	16-05-2016 07:15	LA jumper replacement & tan delta testing.	16-05-2016 18:51	11:36:00	0
312	B/R-I at Jharsuguda	Bus Reactor	ER	SO	27-05-2016 09:03	LA conductor replacement	27-05-2016 22:32	13:29:00	0
313	B/R-I at Tamnar	Bus Reactor	WR	TP	21-05-2016 16:55	Differential protection operated	22-05-2016 00:25	7:30:00	1
314	B/R-I at Gwalior	Bus Reactor	WR	SE	22-05-2016 15:03	To repair damaged jumper	22-05-2016 18:05	3:02:00	0
315	B/R-II at Wardha	Bus Reactor	WR	SO	24-05-2016 06:27	CSD commissioning work	24-05-2016 23:17	16:50:00	0
316	B/R-I at Champa	Bus Reactor	WR	SC	31-05-2016 08:49	For construction of Lightening Mast at Champa	01-06-2016 00:00	15:11:00	0
765 kV Reactors & ICTs									
317	765/400 kV ICT-I at Moga	ICT	NR	SO	04-05-2016 06:18	Annual Maintenance	04-05-2016 16:02	9:44:00	0
318	765/400 kV ICT-II at Moga	ICT	NR	SO	05-05-2016 06:36	Annual Maintenance	05-05-2016 14:38	8:02:00	0
319	765/400 kV ICT-I at Anpara D	ICT	NR	SE	09-05-2016 11:49	Attending Hot-spot	09-05-2016 19:44	7:55:00	0
320	765/400 kV ICT-II at Varanasi	ICT	NR	SO	26-05-2016 23:55	To replace LA	27-05-2016 00:55	1:00:00	0
321	765/400 kV ICT-I at Varanasi	ICT	NR	TS	25-05-2016 05:09	tripped due to LA blast	27-05-2016 01:53	44:44:00	1
322	765/400 kV ICT-I at Unnao	ICT	NR	SO	27-05-2016 10:48	Annual Maintenance	27-05-2016 17:22	6:34:00	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
323	765/400 kV ICT-I at Phagi	ICT	NR	SE	29-05-2016 10:25	To replace the damaged clamp of neutral jumper of y-phase transformer of ICT-1	29-05-2016 14:57	4:32:00	0
324	765/400 kV ICT-II at Unnao	ICT	NR	SE	30-05-2016 16:45	Oil leakage in transformer	30-05-2016 18:54	2:09:00	0
325	765/400 kV ICT-I at Jharsuguda	ICT	ER	SO	10-05-2016 07:24	For changing of conductor of LA	10-05-2016 20:08	12:44:00	0
326	765/400 kV ICT-II at Jharsuguda	ICT	ER	SO	30-05-2016 07:00	LA conductor replacement & bushing tan delta	30-05-2016 22:34	15:34:00	0
327	765/400 kV ICT-I at Seoni	ICT	WR	SO	06-05-2016 11:07	Variable frequency tan delta of HV bushings at Seoni	06-05-2016 17:11	6:04:00	0
328	765/400 kV ICT-I at Bhopal	ICT	WR	SO	09-05-2016 07:31	Annual Maintenance	09-05-2016 17:51	10:20:00	0
329	765/400 kV ICT-I at Indore	ICT	WR	TP	09-05-2016 15:29	Y PHASE DIFFERENTIAL PROTECTION OPERATED	09-05-2016 21:15	5:46:00	1
330	765/400 kV ICT-I at Bhopal	ICT	WR	SO	10-05-2016 12:56	Annual Maintenance	10-05-2016 20:12	7:16:00	0
331	765/400 kV ICT-I at Bhopal	ICT	WR	SO	11-05-2016 08:26	Annual Maintenance	11-05-2016 19:49	11:23:00	0
332	765/400 kV ICT-II at Pune	ICT	WR	TS	11-05-2016 18:51	Bus-I Bus Bar Operated at Pune(GIS)	11-05-2016 22:22	3:31:00	1
333	765/400 kV ICT-II at Bhopal	ICT	WR	SO	13-05-2016 05:52	Annual Maintenance	13-05-2016 10:03	4:11:00	0
334	765/400 kV ICT-I at Indore	ICT	WR	SO	13-05-2016 10:55	RTV Coating on Bushing	13-05-2016 18:36	7:41:00	1
335	765/400 kV ICT-I at Dhule	ICT	WR	SO	14-05-2016 09:01	Annual Maintenance	14-05-2016 19:53	10:52:00	0
336	765/400 kV ICT-I at Dhule	ICT	WR	SO	15-05-2016 06:59	Annual Maintenance	15-05-2016 21:25	14:26:00	0
337	765/400 kV ICT-II at Dhule	ICT	WR	SO	16-05-2016 07:08	Annual Maintenance	16-05-2016 15:32	8:24:00	0
338	765/400 kV ICT-II at Dhule	ICT	WR	SO	17-05-2016 06:56	Annual Maintenance	17-05-2016 17:31	10:35:00	0
339	765/400 kV ICT-II at Jabalpur-PS	ICT	WR	SC	20-05-2016 16:00	For Jumpering work from 33kV Delta Bus of ICT # 2 to 33kV Isolator for Tertiary Loading (i.e. 800KVA)	20-05-2016 17:40	1:40:00	0
340	765/400 kV ICT-II at Gwalior	ICT	WR	SE	22-05-2016 11:23	To repair damaged jumper	22-05-2016 12:35	1:12:00	0
341	765/400 kV ICT-I at Gwalior	ICT	WR	SE	22-05-2016 12:42	To repair damaged jumper	22-05-2016 14:51	2:09:00	0
342	765/400 kV ICT-I at Sasan	ICT	WR	SO	23-05-2016 09:54	Annual Maintenance	24-05-2016 20:40	34:46:00	0
343	765/400 kV ICT-I at Sasan	ICT	WR	SO	24-05-2016 09:54	Annual Maintenance	24-05-2016 20:40	10:46:00	0
344	765/400 kV ICT-I at Sipat	ICT	WR	SO	25-05-2016 08:31	Annual Maintenance	27-05-2016 19:14	58:43:00	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
345	765/400 kV ICT-II at Indore	ICT	WR	SO	26-05-2016 11:28	To rectify the Isolator problem	26-05-2016 14:21	2:53:00	0
346	765/400 kV ICT-II at Bhopal	ICT	WR	SO	30-05-2016 07:51	Annual Maintenance	30-05-2016 22:23	14:32:00	0
347	765/400 kV ICT-I at Jabalpur-PS	ICT	WR	SE	31-05-2016 17:17	To attend hot spots	31-05-2016 19:11	1:54:00	0
348	765/400 kV ICT-III at Nellore	ICT	SR	TP	23-05-2016 07:15	B-PH DIFFERENTIAL PROTECTION ACTED	23-05-2016 13:59	6:44:00	1
349	765/400 kV ICT-I at Thiruvalem	ICT	SR	SO	25-04-2016 10:10	Performance tests	25-05-2016 17:51	727:41:00	0
350	765/400 kV ICT-II at Thiruvalem	ICT	SR	SO	27-05-2016 09:42	Annual Maintenance	27-05-2016 15:26	5:44:00	0

TL TL= Tripping due to Line Fault

Total Number of 765 kV lines 95

TS TS= Tripping due to S/S Fault

Total Number of 400 kV lines 35

MO MO= Opened due to system constraints

Total Number of 220 kV lines 15

TV TV= Tripped on Overvoltage

Total Number of HVDC links 18

SC SC= Planned Shutdown for

construction activities

Total Number of 765 kV ICTs 115

SO SO= Planned Shutdown for O&M activities

Total Number of 765 kV B/R 60

SE SE= Emergency Shutdown

Grand Total 338

TP TP= Protection Maloperation

ME ME= Miscellaneous outage



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