

पावर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

POWER SYSTEM OPERATION CORPORATION LIMITED

(A wholly owned subsidiary of POWERGRID)



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

संदर्भ संख्या:-POSOCO/NLDC/GM/

दिनांक: 22.07.2016

सेवा में,

वितरण सूची के अनुसार

विषय:- निष्पादन रिपोर्ट - जून 2016

महोदय,

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

धन्यवाद

भवदीय

पु.स. / एन.नल्लारसन
22/7/16

(एन. नल्लारसन)

उप महाप्रबंधक

(रा०भा०प्रे०के०)

संलग्नक: मासिक प्रणाली रिपोर्ट

वितरण सूची Distribution List

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



POWER SYSTEM OPERATION CORPORATION LIMITED

(A wholly owned subsidiary of POWERGRID)

पावर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड

NATIONAL LOAD DESPATCH CENTRE –राष्ट्रीय भार प्रेषण केन्द्र

मासिक ऑपरेशन रिपोर्ट

Monthly
Operation Report



जून 2016

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

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



माह जून 2016 के लिए प्रचालन निष्पादन रिपोर्ट
OPERATIONAL PERFORMANCE REPORT FOR THE
MONTH OF JUNE 2016

पृष्ठसूची CONTENTS

1	माह जून 2016 की सारांश रिपोर्ट Summary of report for the month of June 2016	1-4
2	क्षेत्रवार स्थापित विद्युत क्षमता Region wise Installed Capacity	5
3	राष्ट्रीय स्तर पर सांध्यकालीन शिखर मांगपूर्ति Peak demand met at National level	6-8
4	राष्ट्रीय स्तर पर विद्युत ऊर्जा खपत Energy consumption at National level	9-10
5	फ्रिक्वेंसी रूपरेखा Frequency profile	11-13
6	राष्ट्रीय स्तर पर जल विद्युत ऊर्जा उत्पादन Hydro generation at National level	14-15
7	राष्ट्रीय स्तर पर पवन विद्युत ऊर्जा उत्पादन Wind generation at National level	16
8	ऊर्जा आपूर्ति की वास्तविक स्थिति Actual power supply position	17
9	ऊर्जा आवश्यकता एवं आपूर्ति की पिछले वर्ष माह जून से तुलना Energy requirement and met comparison with June 2015	18
10	शिखर मांग आवश्यकता एवं आपूर्ति की पिछले वर्ष माह जून से तुलना Peak demand requirement and met comparison with June 2015	19
11	क्षेत्रीय स्तर पर शिड्यूल एवं ड्रावल Schedule & drawal at regional level	20
12	अंतर क्षेत्रीय विनिमय Inter-regional exchanges	21-26
13	अंतर राष्ट्रीय विद्युत विनिमय Inter-national exchanges	27
14	एसटीओए (द्विपक्षीय एवं सामूहिक) एवं यू आइ का ब्यौरा Bilateral and collective short-term open access & UI details	28
15	पावर मार्केट की सूचना Power market information	29-31

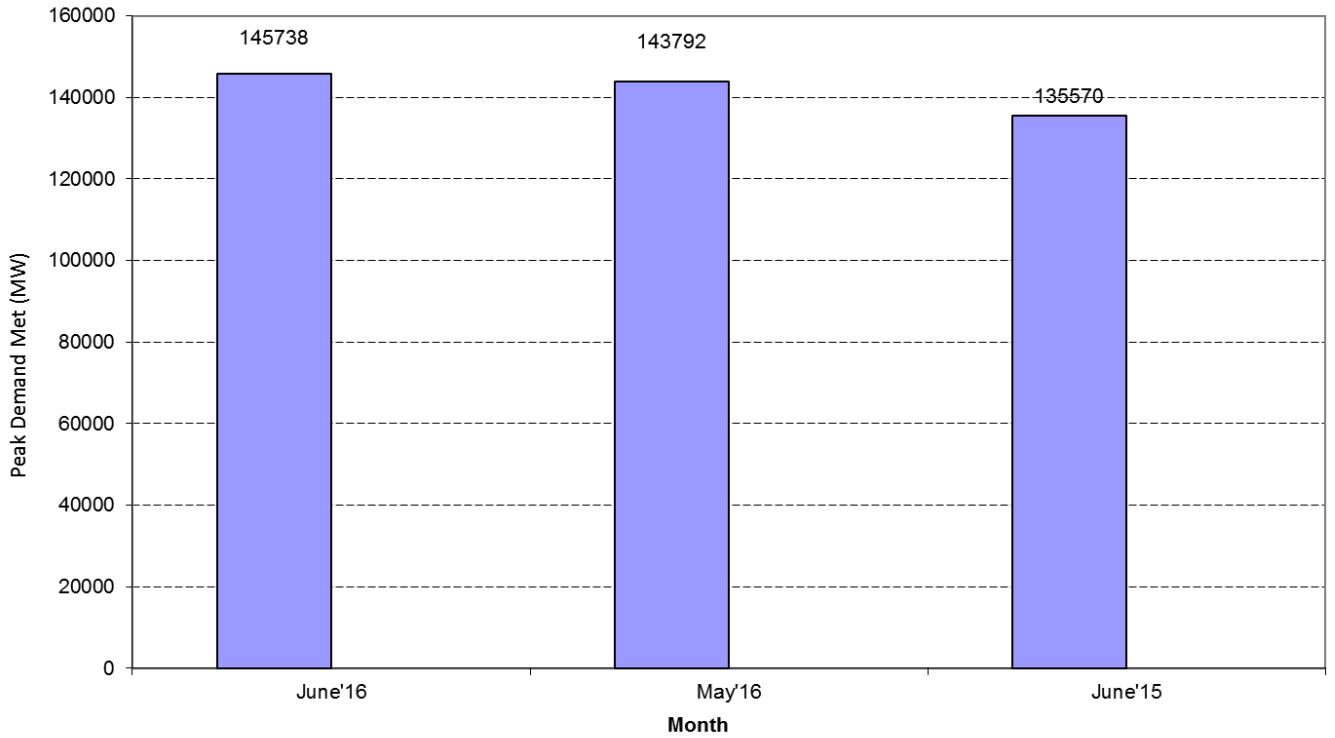
16	अक्षय ऊर्जा प्रमाण पत्र प्रक्रिया Renewable energy certificate mechanism	32-34
17	मुख्य घटनाएँ एवं दिसटरबेनसेज़ Important events/disturbances	35-39
18	नए कमीशंड पारेषण तत्व New elements commissioned	40
19	विभव रूपरेखा Voltage profile	41
20	जून 2016 के दौरान रा.भा.प्रे.के. द्वारा निगरानी में तत्वों की ट्रिपिंग की सूची List of tripping of elements monitored by NLDC for the month of June 2016	42-57
21	जून 2016 के लिए सिस्टम रिलाइबिलिटी सूचकांक System Reliability Indices for June 2016	58

1. SUMMARY OF REPORT FOR THE MONTH OF JUNE 2016

Peak Demand Met

Increased by 1.35% as compared to May 2016

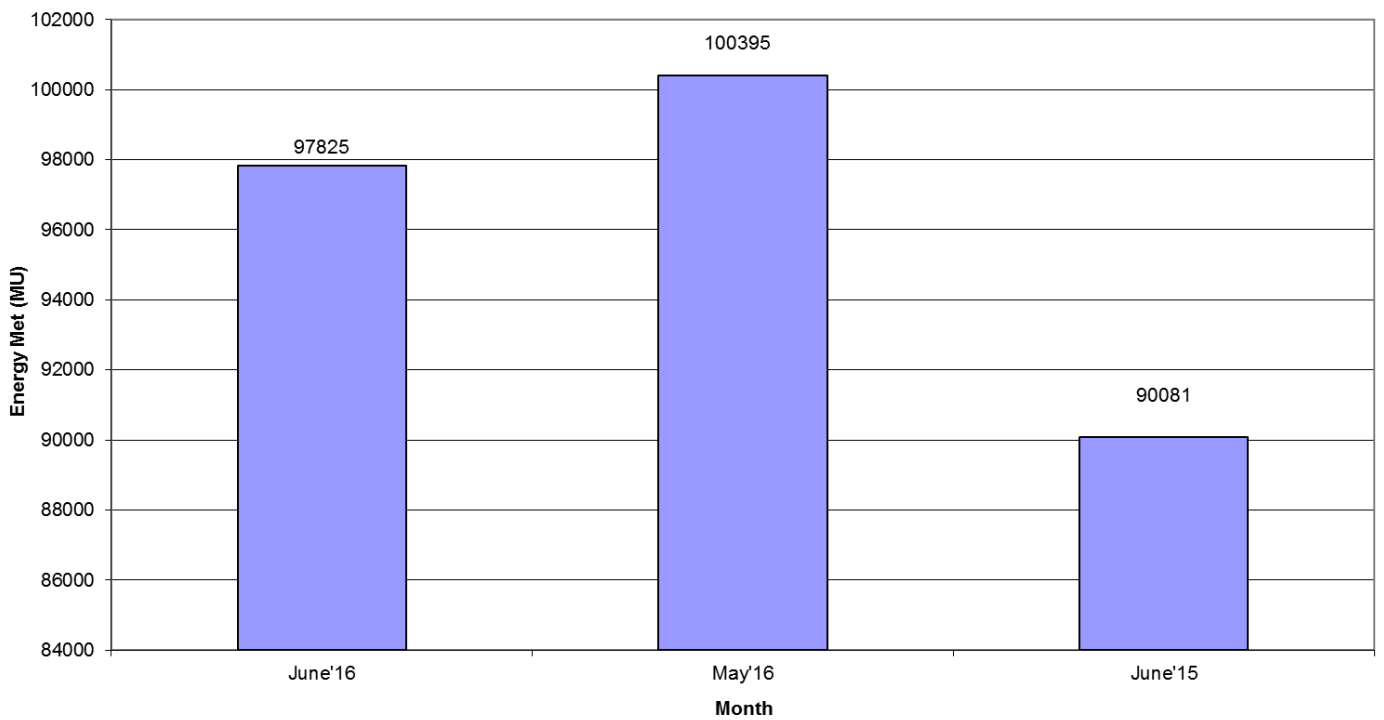
Increased by 7.5% as compared to June 2015



Energy Met

Decreased by 2.56% as compared to May 2016

Increased by 8.59% as compared to June 2015

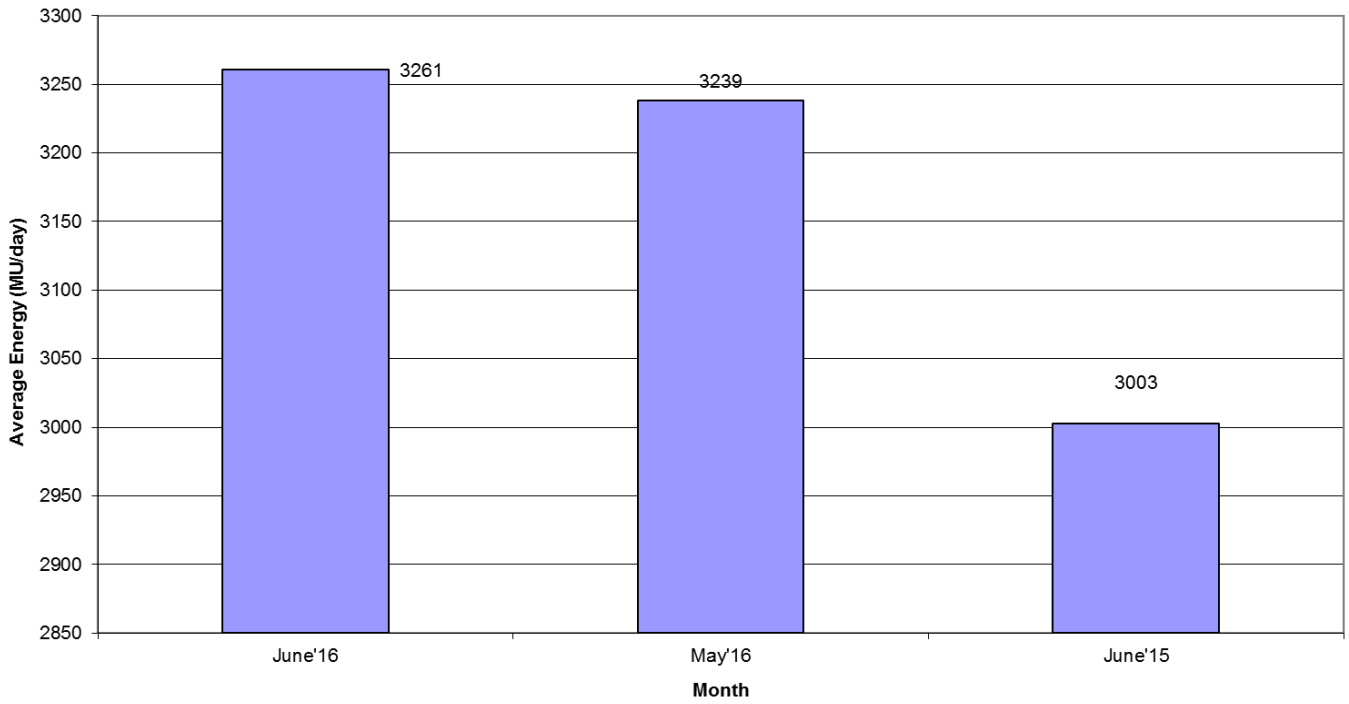


1. SUMMARY OF REPORT FOR THE MONTH OF JUNE 2016

Average Energy (MU/day)

Increased by 0.69% as compared to May 2016

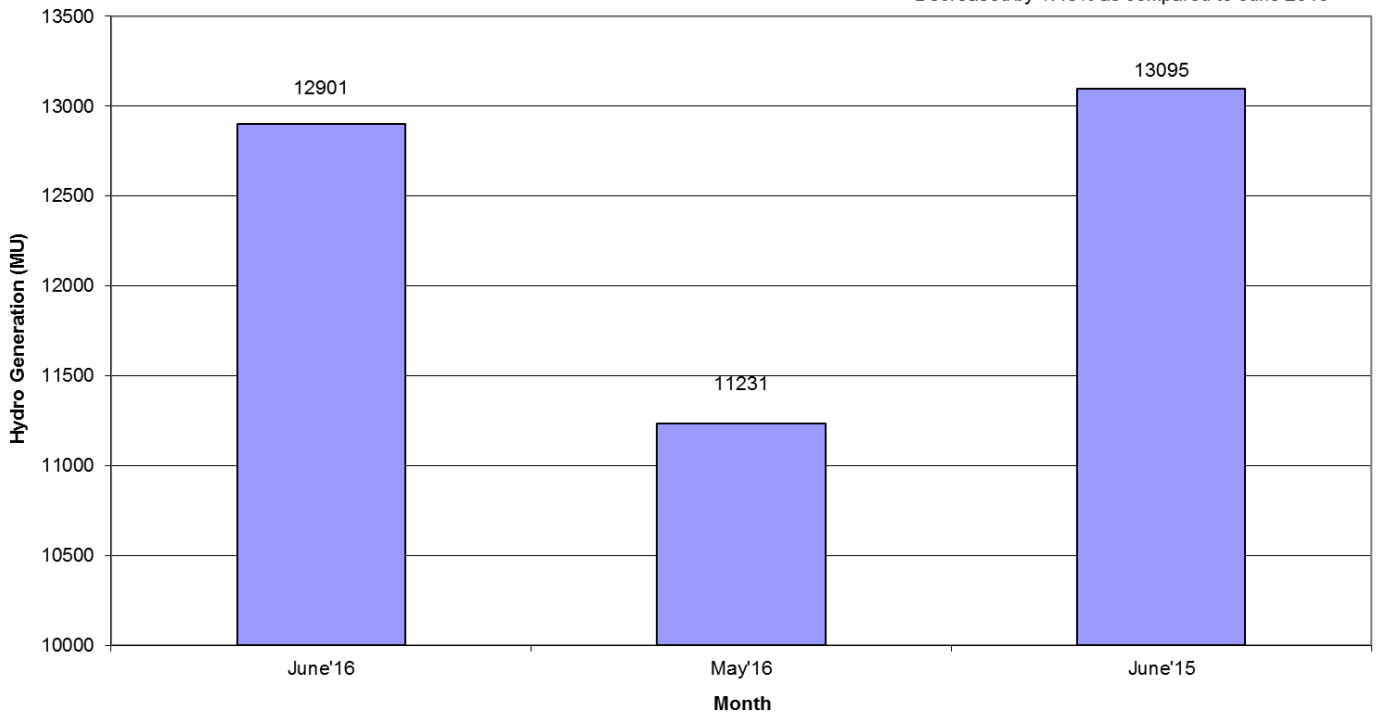
Increased by 8.59% as compared to June 2015



Hydro generation

Increased by 14.86% as compared to May 2016

Decreased by 1.48% as compared to June 2015

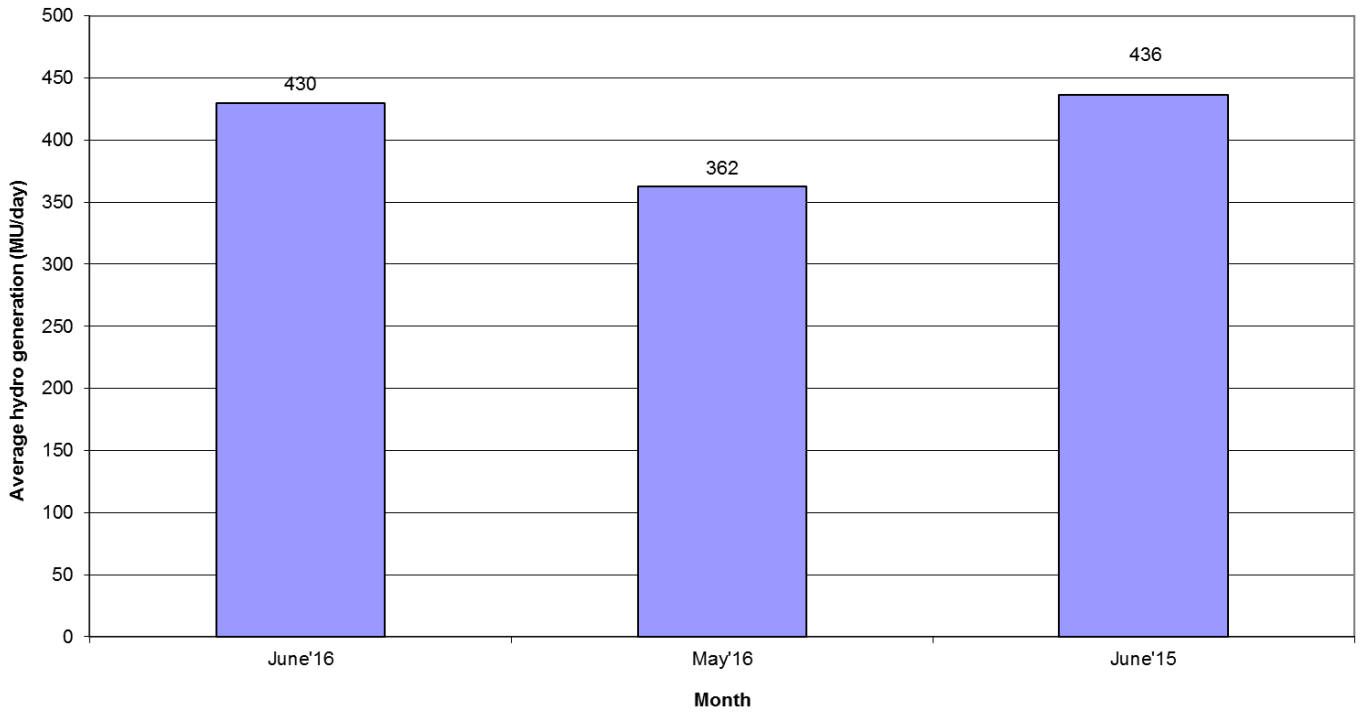


1. SUMMARY OF REPORT FOR THE MONTH OF JUNE 2016

Average Hydro Generation

Increased by 18.69% as compared to May 2016

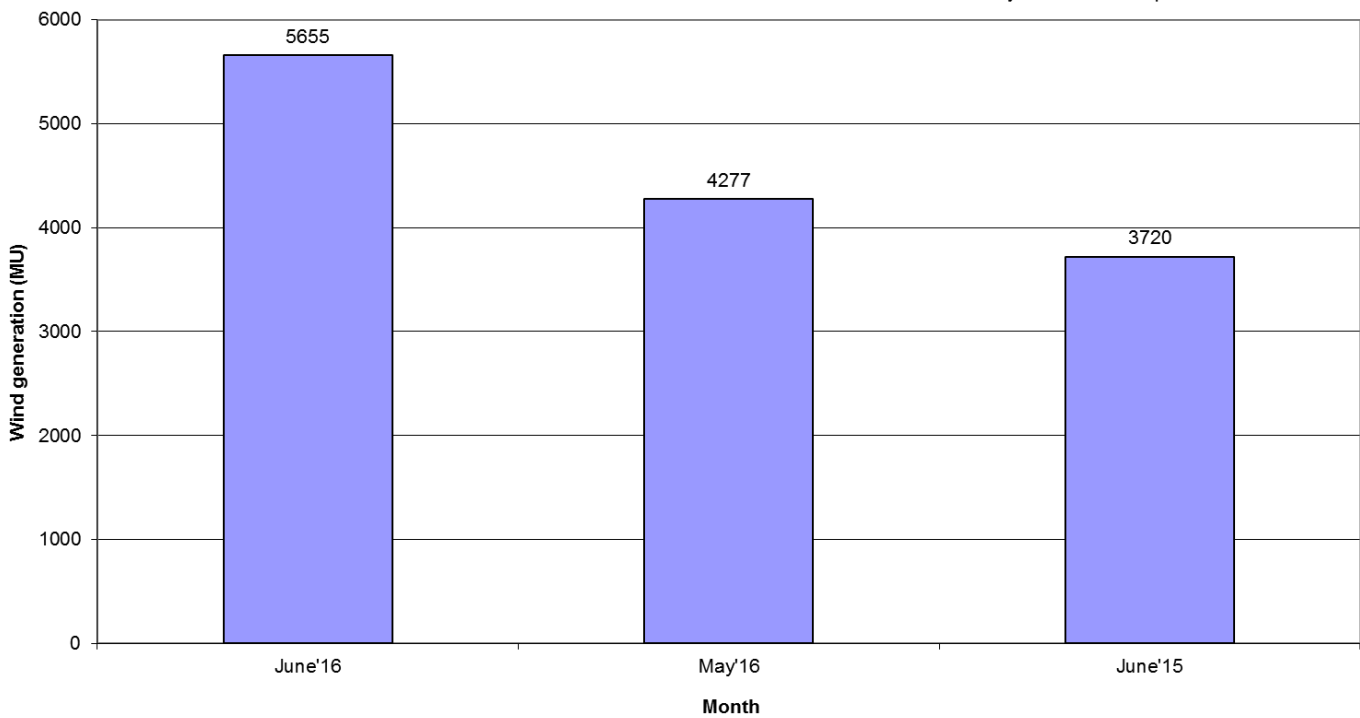
Decreased by 1.48% as compared to June 2015



Wind Generation

Increased by 32.22 % as compared to May 2016

Increased by 52.03% as compared to June 2015

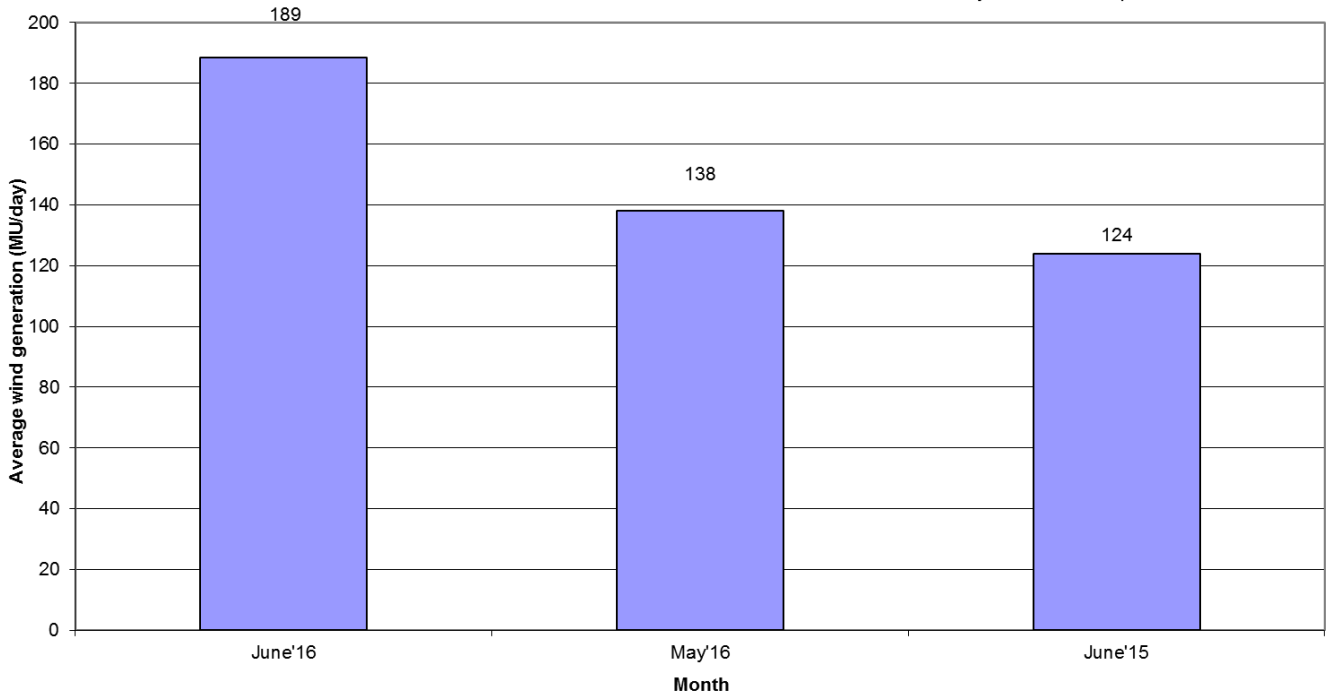


1. SUMMARY OF REPORT FOR THE MONTH OF JUNE 2016

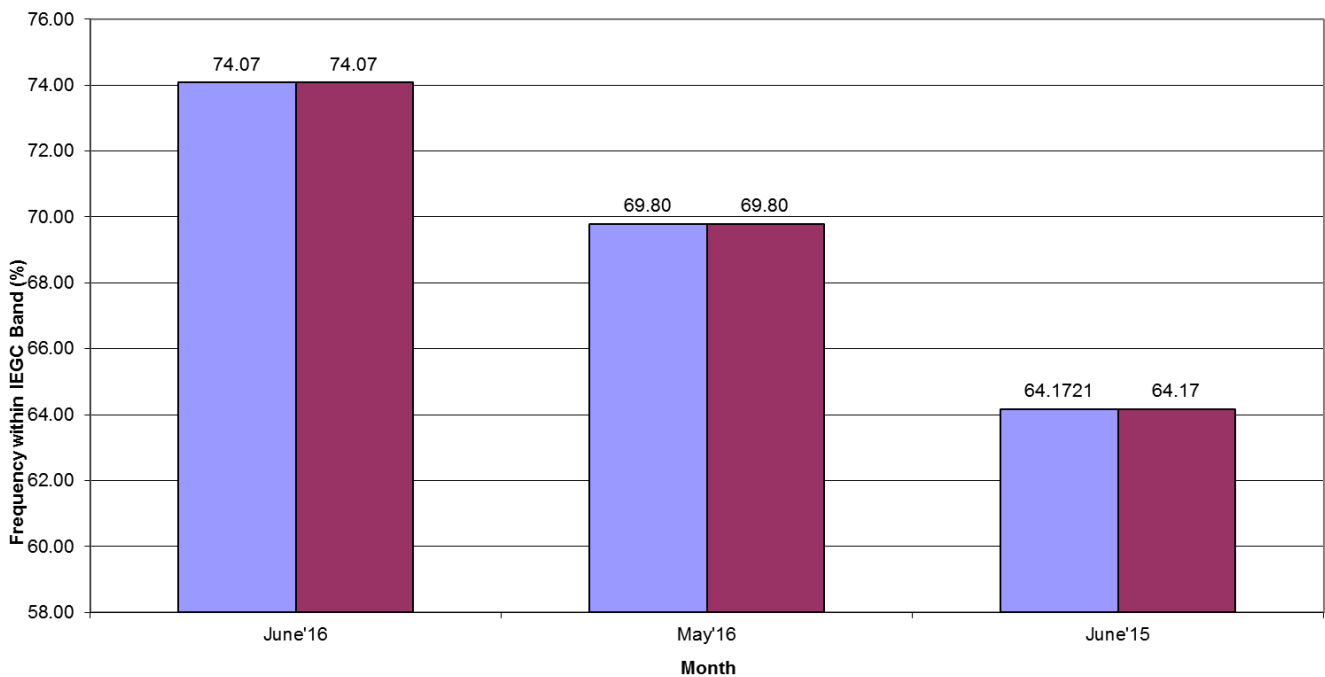
Average wind generation (MU/day)

Increased by 36.63% as compared to May 2016

Increased by 52.03% as compared to June 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 30.06.2016
(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	18312	8630	79758
2	WR	72373	10815	0	83188	1840	7448	15315	107791
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
		186213	24509	919	211640	5780	42848	42849	303118

Remarks: Data from CEA website

3. राष्ट्रीय स्तर पर संध्याकालीन शिखर विद्युत मांग पूर्ति

PEAK DEMAND MET AT NATIONAL LEVEL

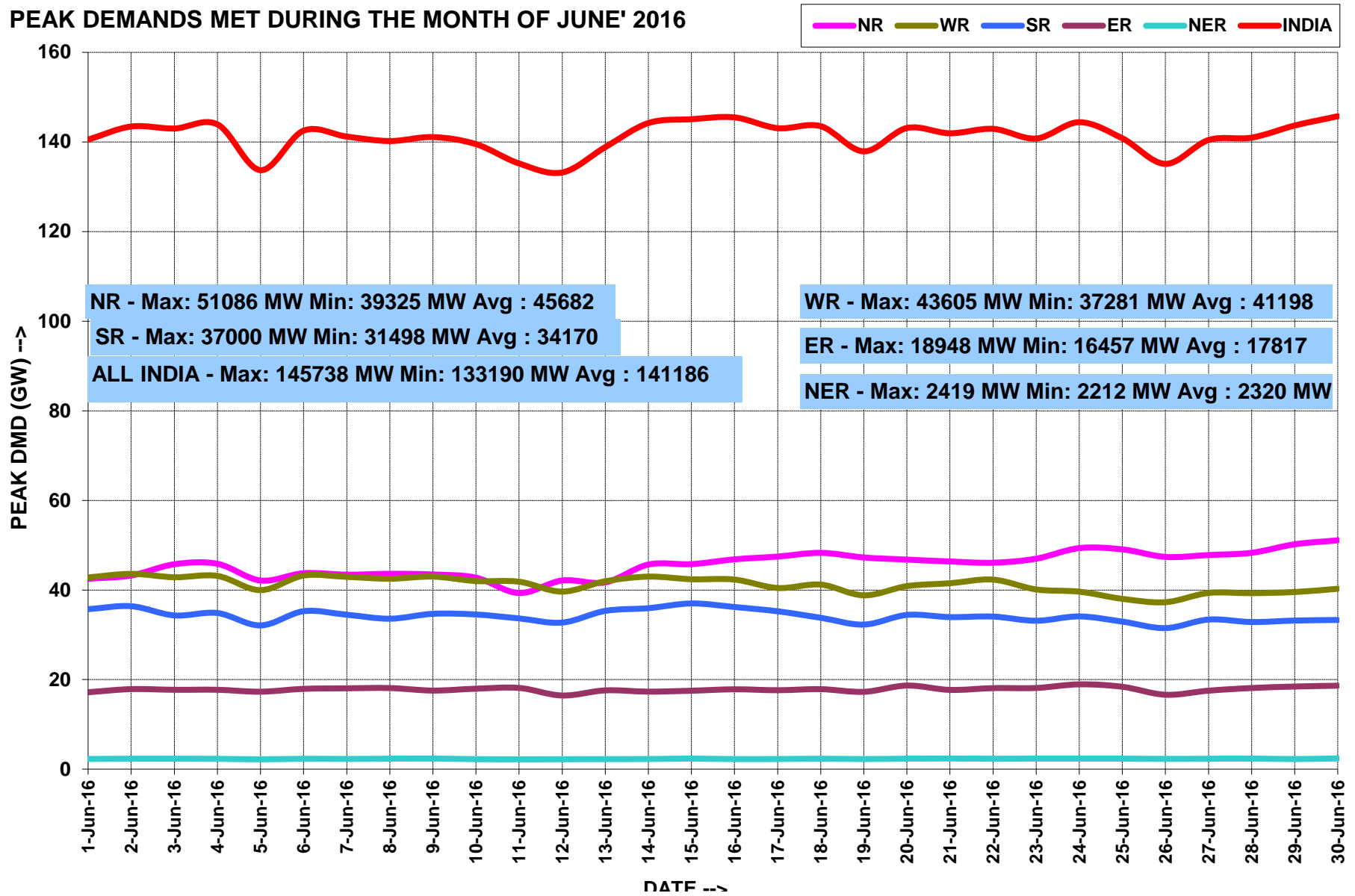
माह:-जून 2016 MONTH:- June 2016

सभी आंकड़े मेगावाट में All figures in MW

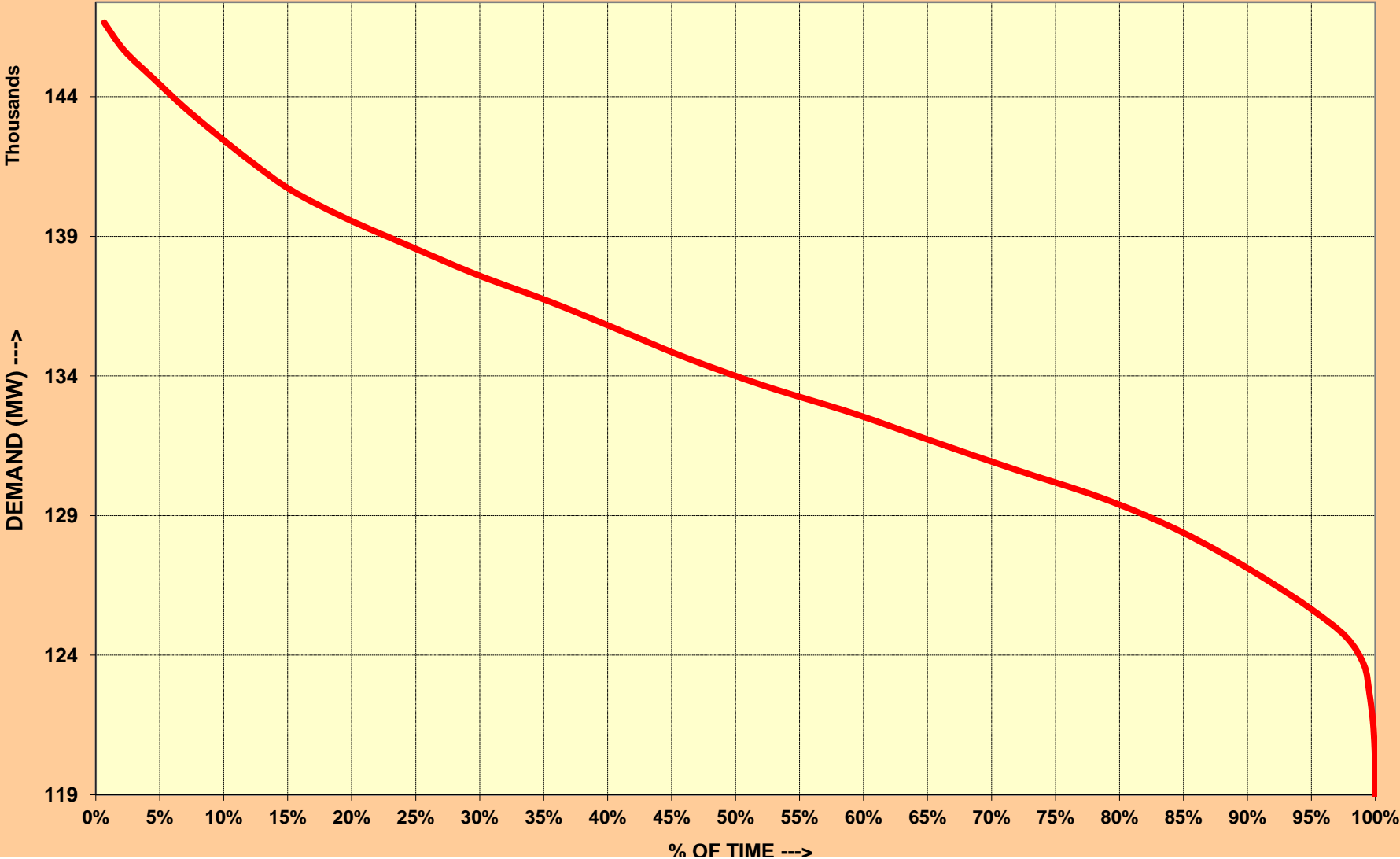
दिनांक Date	उत्तरी क्षे. NR	पश्चिमी क्षे. WR	दक्षिणी क्षे. SR	पूर्वी क्षे. ER	पूर्वोत्तर क्षे. NER	कुल TOTAL
01-Jun-16	42517	42811	35725	17184	2288	140525
02-Jun-16	43240	43605	36381	17880	2348	143454
03-Jun-16	45752	42851	34327	17726	2346	143002
04-Jun-16	45855	43144	34866	17731	2325	143921
05-Jun-16	42124	39968	32100	17305	2212	133709
06-Jun-16	43750	43230	35266	17941	2337	142523
07-Jun-16	43422	42933	34485	18063	2299	141202
08-Jun-16	43617	42522	33594	18121	2354	140208
09-Jun-16	43462	42991	34688	17559	2390	141090
10-Jun-16	42757	42002	34534	17974	2247	139514
11-Jun-16	39325	41853	33658	18145	2217	135199
12-Jun-16	42126	39640	32732	16457	2235	133190
13-Jun-16	41697	41955	35338	17600	2256	138846
14-Jun-16	45685	42989	35946	17319	2281	144220
15-Jun-16	45775	42405	37000	17524	2371	145075
16-Jun-16	46847	42331	36206	17838	2264	145486
17-Jun-16	47469	40450	35249	17635	2277	143081
18-Jun-16	48295	41207	33801	17871	2345	143519
19-Jun-16	47265	38808	32284	17280	2274	137911
20-Jun-16	46789	40866	34436	18672	2357	143120
21-Jun-16	46367	41512	33954	17707	2398	141938
22-Jun-16	46087	42322	34073	18104	2340	142926
23-Jun-16	46991	40130	33141	18137	2372	140771
24-Jun-16	49353	39630	34107	18948	2374	144412
25-Jun-16	49073	38032	32950	18402	2361	140818
26-Jun-16	47394	37281	31498	16627	2312	135112
27-Jun-16	47810	39341	33409	17535	2341	140436
28-Jun-16	48308	39297	32854	18127	2380	140966
29-Jun-16	50208	39549	33182	18458	2274	143671
30-Jun-16	51086	40278	33313	18642	2419	145738
उच्चतम MAXIMUM	51086	43605	37000	18948	2419	145738
निम्नतम MINIMUM	39325	37281	31498	16457	2212	133190
औसत AVERAGE	45682	41198	34170	17817	2320	141186
अब तक का उच्चतम All Time Max.	51086	47617	38744	18948	2419	147655
दिनांक Date	30.06.16	20.10.15	13.04.16	24.06.16	30.06.16	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 JUNE' 2016



ALL INDIA LOAD DURATION CURVE FOR JUNE' 2016

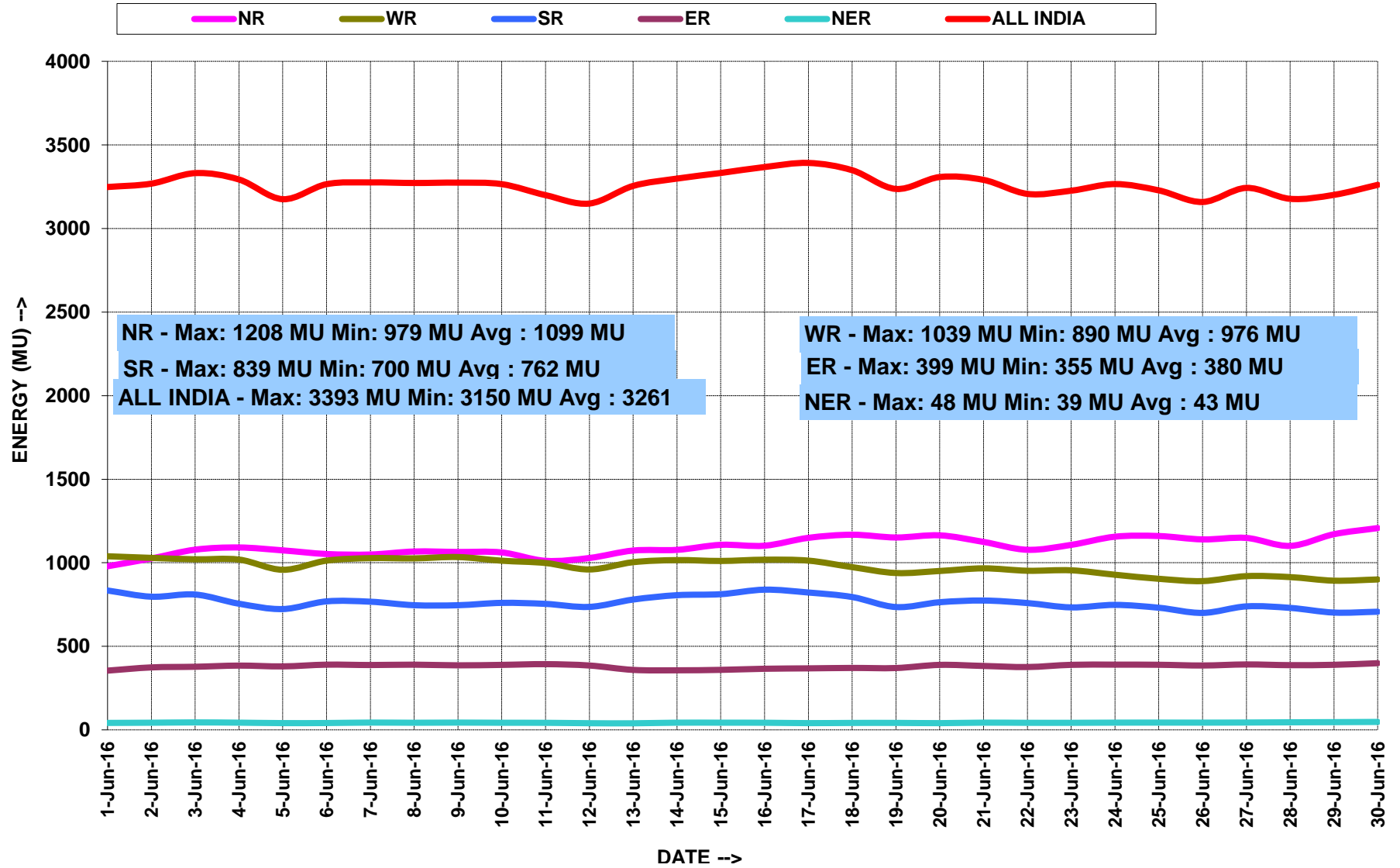


4. राष्ट्रीय स्तर पर विद्युत ऊर्जा आपूर्ति ENERGY MET AT NATIONAL LEVEL

माह:-जून 2016 MONTH:- June 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-Jun-16	979	1039	834	355	42	3248
02-Jun-16	1026	1029	797	374	43	3269
03-Jun-16	1078	1021	810	378	45	3332
04-Jun-16	1092	1019	755	385	43	3294
05-Jun-16	1074	958	723	380	41	3176
06-Jun-16	1052	1013	769	390	41	3265
07-Jun-16	1049	1028	767	388	44	3276
08-Jun-16	1067	1026	746	390	43	3273
09-Jun-16	1065	1034	746	386	44	3275
10-Jun-16	1062	1012	760	389	43	3266
11-Jun-16	1012	999	754	393	42	3200
12-Jun-16	1029	960	736	385	40	3150
13-Jun-16	1073	1004	780	359	39	3255
14-Jun-16	1077	1016	806	357	43	3299
15-Jun-16	1107	1011	812	359	43	3332
16-Jun-16	1102	1018	839	366	43	3368
17-Jun-16	1149	1013	822	368	40	3393
18-Jun-16	1168	974	795	371	42	3349
19-Jun-16	1151	939	735	370	42	3237
20-Jun-16	1164	951	764	389	40	3308
21-Jun-16	1125	967	774	383	43	3291
22-Jun-16	1078	952	759	376	42	3207
23-Jun-16	1107	955	733	389	42	3226
24-Jun-16	1156	928	748	390	43	3266
25-Jun-16	1160	904	731	390	44	3228
26-Jun-16	1140	890	700	385	43	3159
27-Jun-16	1149	920	739	392	44	3243
28-Jun-16	1101	914	730	387	45	3178
29-Jun-16	1171	893	702	389	46	3201
30-Jun-16	1208	900	707	399	48	3261
कुल TOTAL	32970	29287	22873	11413	1283	97825
उच्चतम MAXIMUM	1208	1039	839	399	48	3393
निम्नतम MINIMUM	979	890	700	355	39	3150
औसत AVERAGE	1099	976	762	380	43	3261
अब तक का उच्चतम All Time Max.	1208	1131	945	409	48	3407
दिनांक Date	30.06.16	20.10.15	28.04.16	20.04.16	30.06.16	03.05.16

ENERGY MET DURING THE MONTH OF JUNE' 2016



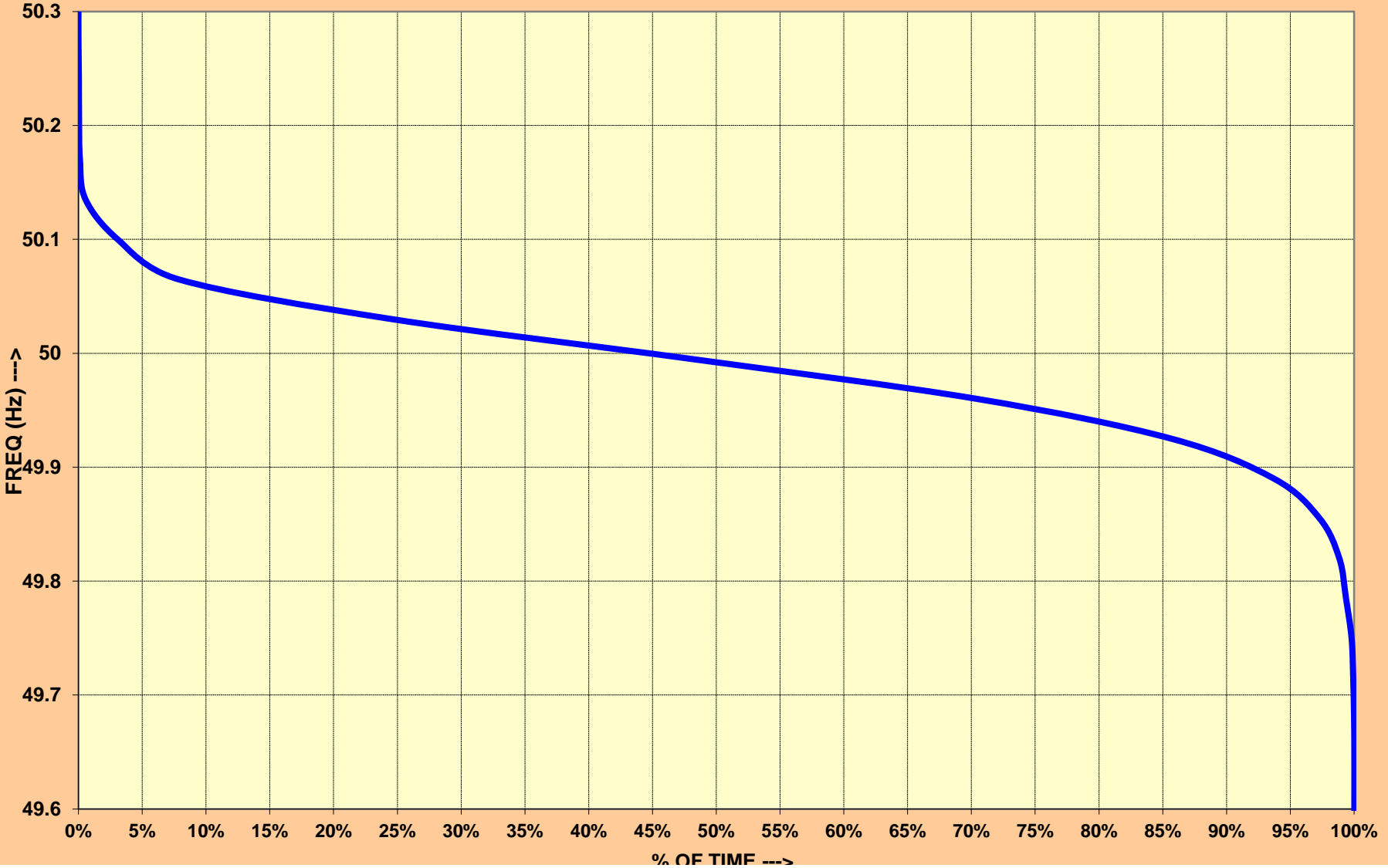
5.वर्ष 2016-17 के लिए आवृत्ति रूपरेखा FREQUENCY PROFILE FOR YEAR 2016-17

राष्ट्रीय गिड NATIONAL GRID									
फ्रिक्वेंसी रूपरेखा (Hz)			49.0-49.9	<49.9	49.9-50.05	>50.05	उच्चतम फ्रिक्वेंसी	निम्नतम फ्रिक्वेंसी	औसत फ्रिक्वेंसी
% समय	Jun-16	All India Grid	7.66	7.66	74.07	18.26	50.37	49.65	49.99
	May-16		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

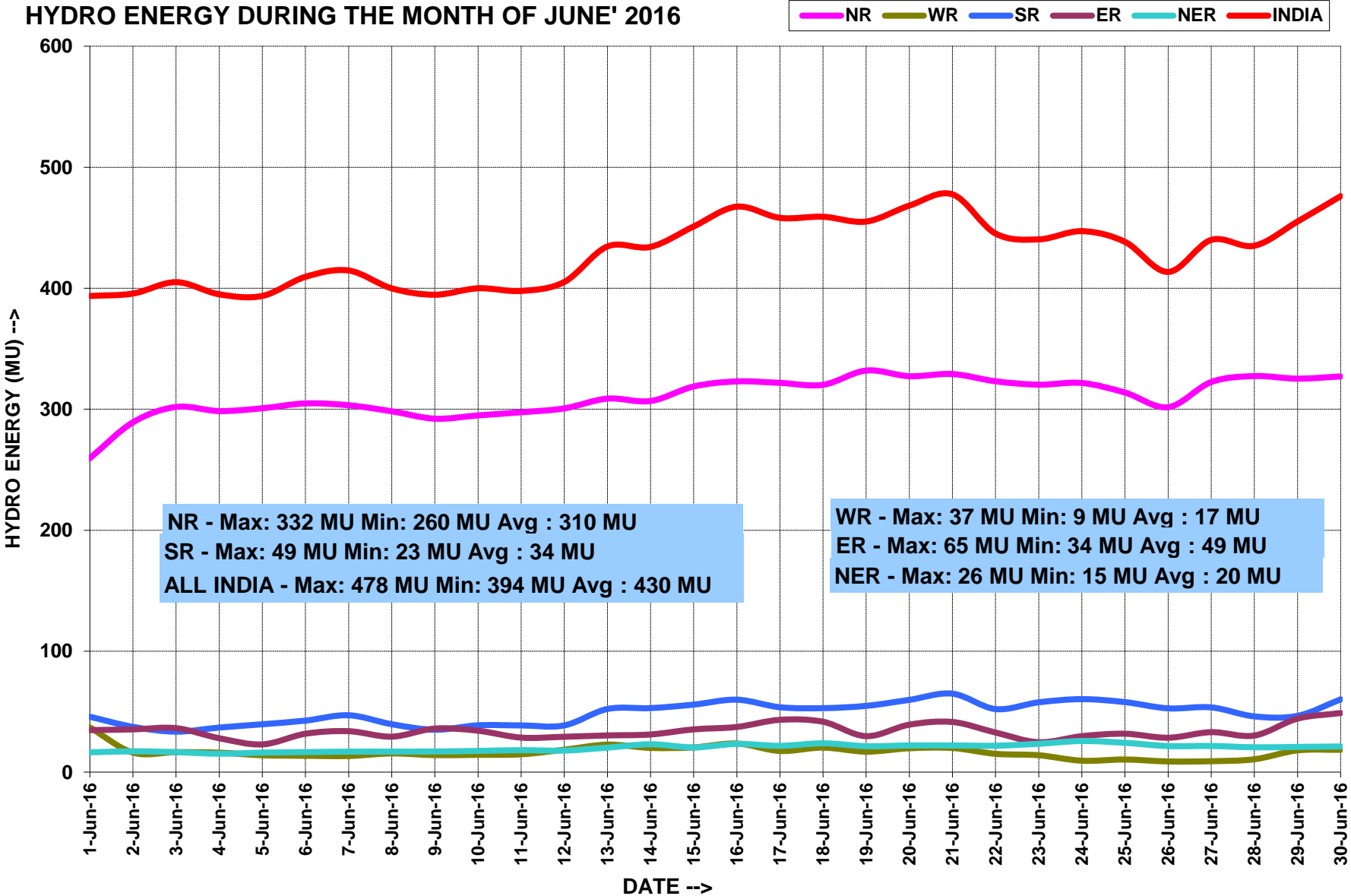
5.2 जून 2016 के लिए आवृत्ति रूपरेखा FREQUENCY PROFILE FOR JUNE 2016

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-Jun-16	0.00	19.40	19.40	70.42	10.19	50.16	49.70	49.96
	02-Jun-16	0.00	21.32	21.32	68.74	9.94	50.15	49.73	49.96
	03-Jun-16	0.00	15.68	15.68	75.10	9.21	50.14	49.73	49.96
	04-Jun-16	0.00	7.30	7.30	80.65	12.05	50.13	49.76	49.98
	05-Jun-16	0.00	5.65	5.65	77.77	16.59	50.17	49.81	50.00
	06-Jun-16	0.00	3.98	3.98	74.17	21.85	50.18	49.84	50.01
	07-Jun-16	0.00	2.95	2.95	73.23	23.82	50.27	49.82	50.01
	08-Jun-16	0.00	3.70	3.70	69.83	26.47	50.20	49.77	50.01
	09-Jun-16	0.00	4.56	4.56	75.07	20.37	50.37	49.81	50.00
	10-Jun-16	0.00	4.56	4.56	75.07	20.37	50.37	49.81	50.00
	11-Jun-16	0.00	3.59	3.59	71.97	24.44	50.17	49.79	50.01
	12-Jun-16	0.00	6.47	6.47	69.38	24.16	50.19	49.76	50.01
	13-Jun-16	0.00	6.70	6.70	71.90	21.40	50.17	49.75	50.00
	14-Jun-16	0.00	5.42	5.42	63.50	31.09	50.17	49.76	50.02
	15-Jun-16	0.00	7.97	7.97	67.86	24.17	50.20	49.77	50.00
	16-Jun-16	0.00	12.42	12.42	63.45	24.13	50.25	49.66	49.99
	17-Jun-16	0.00	11.37	11.37	75.23	13.40	50.18	49.70	49.98
	18-Jun-16	0.00	15.87	15.87	75.09	9.04	50.17	49.70	49.96
	19-Jun-16	0.00	2.72	2.72	79.75	17.53	50.15	49.84	50.00
	20-Jun-16	0.00	7.62	7.62	79.71	12.67	50.24	49.73	49.99
	21-Jun-16	0.00	3.66	3.66	78.72	17.63	50.15	49.85	50.00
	22-Jun-16	0.00	2.07	2.07	70.95	26.98	50.21	49.83	50.02
	23-Jun-16	0.00	5.15	5.15	78.31	16.54	50.16	49.82	50.00
	24-Jun-16	0.00	8.87	8.87	78.39	12.74	50.14	49.78	49.99
	25-Jun-16	0.00	12.21	12.21	72.41	15.38	50.18	49.71	49.98
	26-Jun-16	0.00	7.55	7.55	74.81	17.64	50.16	49.71	49.99
	27-Jun-16	0.00	5.21	5.21	75.95	18.84	50.15	49.74	50.00
	28-Jun-16	0.00	4.57	4.57	79.66	15.76	50.17	49.81	50.00
	29-Jun-16	0.00	7.45	7.45	73.95	18.60	50.15	49.65	50.00
	30-Jun-16	0.00	3.88	3.88	81.23	14.90	50.16	49.81	50.00

ALL INDIA FREQUENCY DURATION CURVE FOR JUNE' 2016



HYDRO ENERGY DURING THE MONTH OF JUNE' 2016



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

माह:-जून 2016 MONTH:- June 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-Jun-16	260	37	35	46	16	394
02-Jun-16	289	16	35	37	17	396
03-Jun-16	302	17	36	34	17	405
04-Jun-16	299	16	28	37	15	395
05-Jun-16	301	14	23	40	16	394
06-Jun-16	305	14	32	43	17	409
07-Jun-16	303	13	34	47	17	415
08-Jun-16	298	16	29	40	17	400
09-Jun-16	292	14	36	35	17	395
10-Jun-16	295	14	34	39	18	400
11-Jun-16	298	15	29	39	18	398
12-Jun-16	301	19	29	39	18	405
13-Jun-16	309	23	30	52	20	435
14-Jun-16	307	20	31	53	23	434
15-Jun-16	319	21	35	56	21	451
16-Jun-16	323	24	37	60	23	467
17-Jun-16	322	18	43	54	22	458
18-Jun-16	320	20	42	53	24	459
19-Jun-16	332	17	30	55	22	455
20-Jun-16	327	20	39	60	22	468
21-Jun-16	329	20	42	65	22	478
22-Jun-16	323	15	33	52	22	445
23-Jun-16	320	14	25	58	24	440
24-Jun-16	322	10	30	60	26	447
25-Jun-16	314	11	32	58	24	438
26-Jun-16	302	9	29	53	22	413
27-Jun-16	323	9	33	54	22	440
28-Jun-16	327	11	30	46	21	435
29-Jun-16	325	18	44	47	21	455
30-Jun-16	327	19	49	60	21	476
कुल TOTAL	9312	501	1015	1469	604	12901
उच्चतम MAXIMUM	332	37	49	65	26	478
निम्नतम MINIMUM	260	9	23	34	15	394
औसत AVERAGE	310	17	34	49	20	430
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

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

माह:-जून 2016 MONTH:- June 2016

सभी आंकड़े 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-Jun-16	27	60	88	-----	-----	174
02-Jun-16	23	59	81	-----	-----	164
03-Jun-16	25	48	79	-----	-----	152
04-Jun-16	20	50	71	-----	-----	141
05-Jun-16	8	57	61	-----	-----	125
06-Jun-16	10	62	74	-----	-----	146
07-Jun-16	24	73	52	-----	-----	148
08-Jun-16	34	82	53	-----	-----	170
09-Jun-16	36	99	52	-----	-----	186
10-Jun-16	29	99	67	-----	-----	196
11-Jun-16	29	118	102	-----	-----	249
12-Jun-16	31	120	109	-----	-----	260
13-Jun-16	38	129	121	-----	-----	288
14-Jun-16	40	133	124	-----	-----	297
15-Jun-16	41	140	129	-----	-----	310
16-Jun-16	31	120	119	-----	-----	269
17-Jun-16	22	103	103	-----	-----	228
18-Jun-16	17	92	89	-----	-----	199
19-Jun-16	12	70	90	-----	-----	172
20-Jun-16	10	48	87	-----	-----	145
21-Jun-16	23	39	97	-----	-----	159
22-Jun-16	24	34	97	-----	-----	154
23-Jun-16	11	34	100	-----	-----	144
24-Jun-16	13	48	111	-----	-----	172
25-Jun-16	8	55	111	-----	-----	174
26-Jun-16	7	57	100	-----	-----	163
27-Jun-16	11	55	110	-----	-----	175
28-Jun-16	8	44	108	-----	-----	160
29-Jun-16	3	49	104	-----	-----	156
30-Jun-16	6	60	112	-----	-----	178
कुल TOTAL	620	2235	2800	-----	-----	5655
उच्चतम MAXIMUM	41	140	129	-----	-----	310
निम्नतम MINIMUM	3	34	52	-----	-----	125
औसत AVERAGE	21	75	93	-----	-----	189
अब तक का उच्चतम All Time Max.	41	140	129	310
दिनांक Date	15.06.16	15.06.16	15.06.16	15.06.16

8. ACTUAL POWER SUPPLY POSITION - June 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	6.2	6.2	0.0	184.9	184.9	0.0	0.0	356	356	0	0.0
	Delhi	114.8	114.8	0.0	3444.4	3443.2	-1.2	0.0	6260	6260	0	0.0
	Haryana	160.4	160.1	-0.3	4811.0	4803.0	-8.0	-0.2	8763	8763	0	0.0
	H.P.	26.1	25.9	-0.1	781.7	778.3	-3.5	-0.4	1330	1330	0	0.0
	J&K	47.7	38.1	-9.6	1431.0	1143.0	-288.0	-20.1	2466	2092	-374	-15.2
	Punjab	197.6	197.6	0.0	5927.3	5927.3	0.0	0.0	10997	10997	0	0.0
	Rajasthan	205.9	205.8	-0.1	6175.9	6172.7	-3.2	-0.1	10160	10160	0	0.0
	U.P.	321.5	315.9	-5.6	9643.9	9476.7	-167.2	-1.7	16081	15501	-580	-3.6
	Uttarakhand	39.9	39.6	-0.3	1197.1	1188.7	-8.4	-0.7	2056	1981	-75	-3.6
NFF/Railway	2.3	2.3	0.0	67.8	67.8	0.0	0.0	100	100	0	0.0	
TOTAL	1122.2	1106.2	-16.0	33665.0	33185.5	-479.5	-1.4	53372	52612	-760	-1.4	
WR	Gujarat	312.3	312.2	-0.1	9368.8	9365.5	-3.3	0.0	15153	15137	-16	-0.1
	Madhya Pradesh	161.5	161.4	-0.1	4845.0	4842.0	-3.0	-0.1	7643	7627	-16	-0.2
	Chhattisgarh	73.8	73.3	-0.5	2215.0	2200.3	-14.7	-0.7	3506	3398	-108	-3.1
	Maharashtra	396.4	395.8	-0.6	11891.0	11874.0	-17.0	-0.1	20386	19701	-685	-3.4
	Goa	8.9	8.9	0.0	266.8	266.1	-0.7	-0.2	498	496	-2	-0.4
	D&D	6.9	6.9	0.0	206.6	206.6	0.0	0.0	324	324	0	0.0
	DNH	17.1	17.0	0.0	511.7	511.4	-0.3	-0.1	781	781	0	0.0
	ESIL	10.3	10.3	0.0	309.6	309.5	-0.2	-0.1	777	777	0	0.0
TOTAL	987.1	985.8	-1.3	29614.5	29575.3	-39.2	-0.1	46756	46031	-725	-1.6	
SR	Andhra Pradesh	133.0	132.9	0.0	3988.7	3987.8	-0.9	0.0	7000	7000	0	0.0
	Telangana	123.2	123.1	0.0	3694.7	3693.8	-0.9	0.0	6100	6082	-18	-0.3
	KPTCL	150.1	150.0	0.0	4502.1	4500.9	-1.2	0.0	8153	8153	0	0.0
	KSEB	59.2	59.2	0.0	1776.8	1776.0	-0.8	0.0	3496	3496	0	0.0
	TNEB	291.5	291.4	-0.1	8744.5	8742.8	-1.7	0.0	14640	14640	0	0.0
	PONDICHERRY	7.2	7.1	0.0	214.5	214.4	-0.1	0.0	356	356	0	0.0
TOTAL	764.0	763.9	-0.2	22921.2	22915.7	-5.5	0.0	37825	37825	0	0.0	
ER	Bihar	72.7	68.7	-4.1	2181.8	2059.7	-122.1	-5.6	3563	3563	0	0.0
	JSEB	22.1	22.0	-0.1	663.2	660.7	-2.5	-0.4	1144	1144	0	0.0
	DVC	61.9	61.5	-0.4	1857.3	1845.3	-12.0	-0.6	2885	2831	-54	-1.9
	Odisha	78.7	78.7	0.0	2361.3	2361.3	0.0	0.0	4145	4145	0	0.0
	West Bengal	162.4	162.0	-0.5	4873.2	4859.4	-13.8	-0.3	7875	7873	-3	0.0
	Sikkim	1.1	1.1	0.0	34.3	34.3	0.0	0.0	84	84	0	0.0
TOTAL	399.0	394.0	-5.0	11971.1	11820.7	-150.4	-1.3	19319	19149	-170	-0.9	
NER	Arunachal Pradesh	2.0	2.0	0.0	61.2	60.6	-0.6	-1.0	131	130	-1	-0.4
	Assam	28.5	26.1	-2.4	854.0	781.5	-72.4	-8.5	1512	1458	-54	-3.6
	Manipur	2.0	2.0	0.0	60.0	59.8	-0.2	-0.3	153	151	-2	-1.0
	MeSEB	4.0	4.0	0.0	121.0	121.0	0.0	0.0	312	312	0	0.0
	Mizoram	1.3	1.3	0.0	38.6	38.0	-0.6	-1.5	81	80	-1	-1.2
	Nagaland	2.2	2.2	0.0	66.7	66.7	0.0	0.0	119	119	0	0.0
	Tripura	3.9	3.9	0.0	118.5	117.8	-0.7	-0.6	275	273	-2	-0.7
TOTAL	44.0	41.5	-2.5	1320	1245	-74.5	-5.6	2582	2523	-59	-2.3	
ALL INDIA	3316.4	3291.4	-25.0	99491.6	98742.6	-749.1	-0.8	159854	158140	-1714	-1.1	

9. ENERGY COMPARISON OF JUNE 2016 vs JUNE 2015

REGION	STATE	Energy Requirement (MU)					Energy Met (MU)				
		Jun-15	Jun-16	Difference	% Change	Average MU/day for Jun-16	Jun-15	Jun-16	Difference	% Change	Average for MU/day for Jun-16
NR	Chandigarh	168	185	17	10	6	168	185	17	10	6
	Delhi	3045	3444	399	13	115	3044	3443	399	13	115
	Haryana	4347	4811	464	11	160	4321	4803	482	11	160
	H.P.	761	782	21	3	26	759	778	19	3	26
	J&K	1342	1431	89	7	48	1089	1143	54	5	38
	Punjab	5358	5927	569	11	198	5358	5927	569	11	198
	Rajasthan	5401	6176	775	14	206	5401	6173	771	14	206
	U.P.	9496	9644	148	2	321	8402	9477	1074	13	316
	Uttarakhand	1157	1197	40	3	40	1143	1189	46	4	40
	NFF/Railway	65	68	3	5	2	65	68	3	5	2
	TOTAL	31140	33665	2525	8	1122	29751	33185	3435	12	1106
WR	Gujarat	8095	9369	1274	16	312	8093	9366	1273	16	312
	Madhya Pradesh	4200	4845	645	15	162	4205	4842	637	15	161
	Chhattisgarh	2116	2215	99	5	74	2091	2200	109	5	73
	Maharashtra	11344	11891	547	5	396	11312	11874	562	5	396
	Goa	258	267	8	3	9	257	266	9	3	9
	D&D	192	207	15	8	7	192	207	15	8	7
	DNH	472	512	40	8	17	470	511	41	9	17
	ESIL	232	310	78	34	10	231	309	78	34	10
	TOTAL	26909	29614	2706	10	987	26851	29575	2724	10	986
SR	Andhra Pradesh	3925	3989	64	2	133	3925	3988	63	2	133
	Telangana	3570	3695	125	3	123	3500	3694	194	6	123
	KPTCL	4641	4502	-139	-3	150	4551	4501	-50	-1	150
	KSEB	1770	1777	7	0	59	1758	1776	18	1	59
	TNEB	8302	8744	443	5	291	8257	8743	486	6	291
	PONDY	204	215	11	5	7	204	214	11	5	7
	TOTAL	22412	22921	510	2	764	22194	22916	721	3	764
ER	Bihar	1940	2182	242	12	73	1726	2060	334	19	69
	JSEB	642	663	22	3	22	639	661	22	3	22
	DVC	1824	1857	33	2	62	1824	1845	21	1	62
	Odisha	2159	2361	202	9	79	2159	2361	202	9	79
	West Bengal	4386	4873	487	11	162	4371	4859	489	11	162
	Sikkim	26	34	8	33	1	26	34	8	33	1
	TOTAL	10976	11971	995	9	399	10744	11821	1076	10	394
NER	Arunachal Pradesh	67	61	-6	-9	2	50	61	10	20	2
	Assam	790	854	64	8	28	654	782	128	20	26
	Manipur	70	60	-10	-14	2	64	60	-4	-6	2
	MeSEB	160	121	-39	-24	4	128	121	-7	-6	4
	Mizoram	41	39	-2	-6	1	40	38	-2	-5	1
	Nagaland	65	67	2	3	2	61	67	6	10	2
	Tripura	125	118	-7	-5	4	106	118	11	11	4
	TOTAL	1318	1320	2	0	44	1104	1245	141	13	42
	ALL INDIA	92754	99492	6738	7	3316	90645	98743	8098	9	3291

10. DEMAND COMPARISON OF JUNE 2016 vs JUNE 2015

REGION	STATE	Peak Requirement (MW)				Peak Met (MW)			
		Jun-15	Jun-16	Difference	% Change	Jun-15	Jun-16	Difference	% Change
NR	Chandigarh	342	356	14	4.1	342	356	14	4.1
	Delhi	5846	6260	414	7.1	5846	6260	414	7.1
	Haryana	8331	8763	432	5.2	8086	8763	677	8.4
	H.P.	1299	1330	31	2.4	1177	1330	153	13.0
	J&K	2437	2466	29	1.2	1978	2092	114	5.8
	Punjab	10517	10997	480	4.6	10517	10997	480	4.6
	Rajasthan	9010	10160	1150	12.8	9010	10160	1150	12.8
	U.P.	15391	16081	690	4.5	13521	15501	1980	14.6
	Uttarakhand	1986	2056	70	3.5	1946	1981	35	1.8
	NFF/Railway	100	100	0	0.0	100	100	0	0.0
WR	Gujarat	13755	15153	1398	10	13726	15137	1411	10.3
	Madhya Pradesh	7439	7643	204	3	7458	7627	169	2.3
	Chhattisgarh	3520	3506	-14	0	3350	3398	48	1.4
	Maharashtra	19861	20386	525	3	19717	19701	-16	-0.1
	Goa	449	498	49	11	449	496	47	10.5
	D&D	304	324	20	6.6	304	324	20	6.6
	DNH	717	781	64	8.9	717	781	64	8.9
	ESIL	449	777	328	73.1	449	777	328	73.1
SR	Andhra Pradesh	6757	7000	243	3.6	6732	7000	268	4.0
	Telangana	6031	6100	69	1.1	5912	6082	170	2.9
	KPTCL	8418	8153	-265	-3.1	8235	8153	-82	-1.0
	KSEB	3741	3496	-245	-6.5	3498	3496	-1	0.0
	TNEB	13278	14640	1362	10.3	13278	14640	1362	10.3
	PONDY	349	356	7	2.1	342	356	14	4.1
ER	Bihar	3011	3563	552	18.3	2910	3563	653	22.5
	JSEB	1083	1144	61	5.6	1083	1144	61	5.6
	DVC	2775	2885	110	3.9	2775	2831	56	2.0
	Odisha	4062	4145	83	2.0	4062	4145	83	2.0
	West Bengal	7423	7875	452	6.1	7409	7873	463	6.3
	Sikkim	91	84	-8	-8.7	91	84	-8	-8.7
NER	Arunachal Pradesh	110	131	21	18.6	108	130	22	20.4
	Assam	1391	1512	121	8.7	1324	1458	134	10.1
	Manipur	148	153	5	3.1	147	151	4	2.7
	MeSEB	300	312	12	4.0	295	312	17	5.8
	Mizoram	82	81	-1	-1.2	81	80	-1	-1.2
	Nagaland	123	119	-4	-3.3	120	119	-1	-0.8
	Tripura	250	275	25	10.0	249	273	24	9.6

11. SCHEDULE AND DRAWAL OF CONSTITUENTS - June 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	176.13	206.52	30.39	17.25	5.87	6.88	1.01
	Delhi	2867.55	2852.32	-15.23	-0.53	95.58	95.08	-0.51
	Haryana	3491.51	3536.52	45.01	1.29	116.38	117.88	1.50
	H.P.	162.21	204.16	41.95	25.86	5.41	6.81	1.40
	J&K	526.39	539.22	12.83	2.44	17.55	17.97	0.43
	Punjab	2990.02	3053.23	63.21	2.11	99.67	101.77	2.11
	Rajasthan	1841.09	1851.76	10.68	0.58	61.37	61.73	0.36
	U.P.	4362.27	4421.54	59.27	1.36	145.41	147.38	1.98
	Uttarakhand	619.70	615.38	-4.32	-0.70	20.66	20.51	-0.14
	NFF/Railway	52.97	67.91	14.93	28.19	1.77	2.26	0.50
WR	Gujarat	2147.19	2065.66	-81.53	-3.80	71.57	68.86	-2.72
	Madhya Pradesh	3322.40	3283.65	-38.76	-1.17	110.75	109.45	-1.29
	Maharashtra	3816.16	3851.79	35.63	0.93	127.21	128.39	1.19
	Chhattisgarh	674.04	720.93	46.89	6.96	22.47	24.03	1.56
	Goa	245.13	247.29	2.16	0.88	8.17	8.24	0.07
	D&D	197.22	206.59	9.37	4.75	6.57	6.89	0.31
	D&NH	522.66	511.40	-11.25	-2.15	17.42	17.05	-0.38
	ESIL	307.20	309.46	2.26	0.74	10.24	10.32	0.08
SR	Andhra Pradesh	313.63	308.93	-4.70	-1.50	10.45	10.30	-0.16
	Telangana	2109.38	2103.65	-5.73	-0.27	70.31	70.12	-0.19
	KPTCL	1632.16	1658.16	26.00	1.59	54.41	55.27	0.87
	KSEB	1371.17	1411.36	40.19	2.93	45.71	47.05	1.34
	TNEB	3697.53	3687.59	-9.94	-0.27	123.25	122.92	-0.33
	PONDICHERRY	222.90	214.40	-8.50	-3.81	7.43	7.15	-0.28
ER	Bihar	1960.23	1969.14	8.91	0.45	65.34	65.64	0.30
	JSEB	470.24	470.56	0.32	0.07	15.67	15.69	0.01
	DVC	-935.26	-919.67	15.59	-1.67	-31.18	-30.66	0.52
	GRIDCO	842.76	881.18	38.42	4.56	28.09	29.37	1.28
	WBSEB	1185.95	1221.85	35.90	3.03	39.53	40.73	1.20
	Sikkim	31.17	34.33	3.16	10.14	1.04	1.14	0.11
NER	Arunachal Pradesh	61.60	60.60	-1.00	-1.62	2.05	2.02	-0.03
	Assam	595.70	639.30	43.60	7.32	19.86	21.31	1.45
	Manipur	61.30	59.80	-1.50	-2.45	2.04	1.99	-0.05
	MeSEB	12.30	4.00	-8.30	-67.48	0.41	0.13	-0.28
	Mizoram	32.80	34.30	1.50	4.57	1.09	1.14	0.05
	Nagaland	57.50	56.20	-1.30	-2.26	1.92	1.87	-0.04
	Tripura	96.20	115.20	19.00	19.75	3.21	3.84	0.63

12. INTER REGIONAL EXCHANGES 2016-17				
	April'16	May'16	June'16	Fin. Year 2016-17 (till June 2016)
Name of Line				
Import of NR from WR (WR-NR)				
WR - NR 765 kV Gwalior - Agra D/C	1910.35	1673.93	1757.18	5341.46
WR-NR 765 kV Gwalior - Phagi D/C	564.39	335.59	543.16	1443.14
WR - NR HVDC Vindhyachal	127.02	46.28	68.61	241.91
WR - NR 400 kV Zerda Kankroli	0.00	0.00	0.00	0.00
WR - NR 400 kV Zerda Bhinmal	0.53	0.00	0.00	0.53
WR - NR 220 kV Badod - Kota/ Modak	5.71	18.99	8.96	33.66
WR - NR 220 kV Auraiya - Malanpur/Mehgaon	3.00	1.33	9.69	14.02
WR - NR 400 kV Vindhyachal-Rihand	0.00	0.00	0.00	0.00
WR - NR HVDC Mundra - Mohindergarh	1712.21	1621.73	1598.96	4932.89
Total WR - NR	4323.20	3697.86	3986.55	12007.61
Import of NR from ER (ER-NR)				
ER - NR 765 kV Sasaram - Fatehpur	0.23	2.45	0.00	2.68
ER - NR 765 kV Gaya - Varanasi 2*S/C	155.61	69.65	92.50	317.76
ER - NR 765 kV Gaya - Balia	94.45	61.38	82.88	238.71
ER-NR 400 kV Patna - Balia 2xD/C	232.02	347.01	425.62	1004.66
ER - NR 400 kV Muzaffarpur - Gorakhpur D/C	52.88	106.93	226.36	386.17
ER - NR 400 kV Biharshariff - Balia D/C	94.07	53.79	90.69	238.55
ER - NR 400 kV Barh - G'pur D/C	210.89	277.55	310.57	799.01
ER - NR 400 kV Biharshariff - Varanasi D/C	9.30	6.55	2.75	18.59
ER - NR HVDC Sasaram (Byepass)	128.99	190.08	146.20	465.27
ER - NR 220 kV Pusauli - Sahupuri	106.82	116.07	134.41	357.30
ER - NR 132 kV Sahupuri - Karamnasa	14.40	7.14	5.61	27.15
ER - NR 132 kV Rihand - Son Nagar	0.00	0.00	0.00	0.00
Total ER-NR	1099.66	1238.60	1517.58	3855.84
Import of NR from NER (NER-NR)				
NER-NR HVDC Biswanath Chariali - Agra	317.02	284.77	119.29	721.08
Total NER - NR	317.02	284.77	119.29	721.08
Export of NR to WR (NR-WR)				
NR - WR 765 kV Gwalior - Agra D/C	0.00	0.00	0.00	0.00
NR - WR 765 kV Gwalior - Phagi D/C	0.00	0.00	0.00	0.00
NR - WR HVDC Vindhyachal	12.39	85.56	66.01	163.95
NR - WR 400 kV Zerda Kankroli	137.71	140.87	159.62	438.20
NR - WR 400 kV Zerda Bhinmal	91.55	100.42	119.36	311.34
NR - WR 220 kV Badod - Kota/ Modak	12.38	9.08	11.04	32.49
NR - WR 220 kV Auraiya - Malanpur/Mehgaon	17.40	16.03	3.76	37.19
NR-WR 400 kV Rihand-Vindhyachal	0.00	0.00	0.00	0.00
NR - WR HVDC Mundra - Mohindergarh	0.00	0.00	0.00	0.00
Total NR - WR	271.43	351.95	359.79	983.17
Export of NR to ER (NR-ER)				
NR - ER 765 kV Sasaram - Fatehpur	96.68	101.63	98.39	296.70
NR - ER 765 kV Gaya - Varanasi 2*S/C	2.36	9.16	18.94	30.45
NR - ER 765 kV Gaya - Balia	0.00	0.00	0.00	0.00
NR - ER 400 kV Patna - Balia 2xD/C	0.00	0.00	0.00	0.00
NR - ER 400 kV Muzaffarpur - Gorakhpur D/C	12.38	4.33	0.00	16.70
NR - ER 400 kV Biharshariff - Balia D/C	0.00	1.25	0.41	1.66
NR - ER 400 kV Barh - G'pur D/C	0.00	0.00	0.00	0.00
NR - ER 400 kV Biharshariff - Varanasi D/C	157.78	64.28	26.62	248.68
NR - ER HVDC Sasaram (Byepass)	3.72	13.23	4.62	21.57
NR - ER 220 kV Pusauli - Sahupuri	0.00	0.00	0.00	0.00
NR - ER 132 kV Sahupuri - Karamnasa	0.00	1.26	21.99	23.25
NR - ER 132 kV Rihand - Son Nagar	16.28	17.82	15.35	49.45
Total NR - ER	289.20	212.96	186.31	688.47
Export of NR to NER (NER-NR)				
NR-NR HVDC Biswanath Chariali - Agra	0.00	0.00	1.25	1.25
Total NR - NER	0.00	0.00	1.25	1.25

Export of WR to ER (WR-ER)				
WR - ER 765 kV Ranchi - Dharamjaygarh	58.51	18.86	2.14	79.51
WR - ER 765 kV Dharamjaygarh - Jharsuguda D/C	0.00	0.00	0.00	0.00
WR - ER 400 kV Sipat - Ranchi D/C	163.93	99.07	74.53	337.53
WR - ER 400 kV Raigarh - Sterlite	14.64	19.53	6.38	40.56
WR - ER 400 kV Raigarh-Ind Bharat	54.26	13.84	28.20	96.30
WR - ER 400 kV Raigarh-Rourkela	55.15	20.19	24.15	99.49
WR - ER 400 kV Raigarh - Jharsuguda	77.26	19.59	44.54	141.39
WR - ER 220 kV Korba - Budhipadar D/C	77.56	74.65	5.19	157.40
WR - ER 220 kV Raigarh - Budhipadar	5.19	11.58	0.00	16.77
Total WR - ER	506.50	277.32	185.13	968.95
Import of WR from ER (ER - WR)				
ER - WR 765 kV Ranchi - Dharamjaygarh	7.12	28.02	51.27	86.42
ER - WR 765 kV Dharamjaygarh - Jharsuguda D/C	476.40	392.09	364.14	1232.64
ER - WR 400 kV Sipat - Ranchi D/C	0.00	0.00	0.06	0.06
ER - WR 400 kV Raigarh - Sterlite	71.10	4.96	55.60	131.66
ER - WR 400 kV Raigarh-Ind Bharat	1.90	5.62	0.26	7.77
ER - WR 400 kV Raigarh-Rourkela	0.12	3.58	0.45	4.14
ER - WR 400 kV Raigarh - Jharsuguda	2.83	8.89	0.41	12.13
ER - WR 220 kV Korba - Budhipadar D/C	0.00	0.00	5.02	5.02
ER - WR 220 kV Raigarh - Budhipadar	9.20	7.63	62.93	79.76
Total ER - WR	568.67	450.79	540.15	1559.61
Export of ER to NER (ER - NER)				
ER - NER 400 kV Binaguri - Bongaigaon 2xD/C	351.64	206.60	56.22	614.45
ER - NER 220 kV Birpara - Salakati D/C	37.77	28.43	29.34	95.55
Total ER - NER	389.41	235.03	85.56	710.00
Import of ER from NER (NER - ER)				
NER - ER 400 kV Binaguri - Bongaigaon 2xD/C	0.00	7.07	82.30	89.37
NER - ER 220 kV Birpara - Salakati D/C	0.00	0.26	0.00	0.26
Total NER - ER	0.00	7.33	82.30	89.63
Export of ER to SR (ER - SR)				
ER - SR HVDC Gazuwaka	302.43	355.83	358.74	1017.00
ER - SR HVDC Talchar - Kolar	1309.89	1296.20	1101.36	3707.46
Total ER - SR	1612.32	1652.03	1460.10	4724.45
Import of ER from SR (SR - ER)				
SR - ER HVDC Gazuwaka	0.00	0.00	0.00	0.00
SR - ER HVDC Talchar - Kolar	0.00	0.00	0.00	0.00
Total SR - ER	0.00	0.00	0.00	0.00
Export of WR to SR (WR-SR)				
WR - SR HVDC Bhadravati	713.62	640.84	515.94	1870.40
WR - SR 765 kV Sholapur - Raichur	1345.88	1165.09	1006.32	3517.29
WR - SR 400KV Kolhapur-Kudgi D/C	41.69	50.95	23.80	116.43
Total WR - SR	2101.18	1856.88	1546.05	5504.12
Import of WR from SR (SR - WR)				
SR - WR HVDC Bhadravati	0.00	0.00	0.00	0.00
SR - WR 765 kV Raichur - Sholapur	0.00	4.47	4.47	8.94
SR - WR 400KV Kolhapur-Kudgi D/C	14.56	11.09	10.61	36.26
Total SR - WR	14.56	15.56	15.08	45.20
TOTAL ALL INDIA	11176	9996	9965	31137

12.1 Import of NR from WR, ER & NER during June 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 Zerde-Kankroli	WR - NR 400 kV Zerde-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 2*5/C	ER - NR 765 kV Gaya Ballia	ER-NR 400 kV Patna - Ballia 2xD/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 (Byepass)	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-Jun-16	63.10	9.54	0.86	0.00	0.00	0.00	0.42	0.00	60.45	134.37	0.00	2.71	2.80	10.27	6.66	3.48	9.22	0.00	3.44	3.97	0.00	0.00	42.55	5.64	5.64
2-Jun-16	66.71	9.78	1.01	0.00	0.00	0.00	0.00	0.00	60.45	137.96	0.00	5.31	2.87	11.94	4.92	2.21	10.44	0.00	4.84	4.48	0.00	0.00	47.00	0.00	0.00
3-Jun-16	69.35	12.23	2.90	0.00	0.00	0.00	0.94	0.00	60.45	145.88	0.00	2.61	3.24	7.00	5.91	3.13	9.12	0.00	4.75	4.44	0.00	0.00	40.19	0.00	0.00
4-Jun-16	65.18	13.72	1.27	0.00	0.00	-0.10	0.65	0.00	57.47	138.19	0.00	3.88	3.72	5.08	5.97	4.09	6.52	0.00	4.88	4.87	0.00	0.00	39.00	0.00	0.00
5-Jun-16	61.92	13.77	0.03	0.00	0.00	0.61	0.43	0.00	54.13	130.89	0.00	3.88	3.72	5.08	6.46	4.09	6.58	1.98	4.75	4.69	0.00	0.00	41.22	0.00	0.00
6-Jun-16	61.92	12.79	0.00	0.00	0.00	0.68	0.41	0.00	60.12	135.92	0.00	5.19	1.43	10.86	6.46	3.16	6.58	0.00	4.92	4.66	0.00	0.00	43.26	0.00	0.00
7-Jun-16	51.77	9.95	0.00	0.00	0.00	0.00	0.00	0.00	54.36	116.07	0.00	1.47	2.21	12.77	5.58	0.64	9.59	0.00	5.16	4.66	0.00	0.00	42.07	1.80	1.80
8-Jun-16	53.57	12.66	0.00	0.00	0.00	0.00	0.00	0.00	55.36	121.59	0.00	1.90	1.84	13.89	5.69	1.26	12.44	0.00	4.52	4.33	0.00	0.00	45.87	0.00	0.00
9-Jun-16	55.34	11.16	0.00	0.00	0.00	0.00	0.00	0.00	57.51	124.02	0.00	2.58	2.78	15.49	5.34	3.00	9.87	0.00	4.52	4.33	0.00	0.00	47.91	0.00	0.00
10-Jun-16	52.82	11.01	1.83	0.00	0.00	0.26	0.00	0.00	52.33	118.25	0.00	0.54	1.96	13.93	5.03	1.41	9.78	0.00	4.77	4.73	0.00	0.00	42.14	0.00	0.00
11-Jun-16	55.51	9.92	0.57	0.00	0.00	0.21	0.00	0.00	47.26	113.47	0.00	0.82	1.86	12.90	5.48	0.00	10.05	0.00	4.82	4.80	0.00	0.00	40.73	0.00	0.00
12-Jun-16	57.40	12.74	0.00	0.00	0.00	0.90	0.00	0.00	47.97	119.01	0.00	2.44	1.96	12.37	6.17	0.44	9.86	0.00	6.46	5.02	0.00	0.00	44.72	0.00	0.00
13-Jun-16	57.94	14.86	0.94	0.00	0.00	1.07	0.00	0.00	52.91	127.72	0.00	3.56	1.72	14.06	7.70	0.41	10.58	0.00	9.15	5.16	0.00	0.00	52.33	0.00	0.00
14-Jun-16	55.09	14.19	1.43	0.00	0.00	0.93	0.04	0.00	45.15	116.83	0.00	3.46	2.31	16.53	8.37	2.22	10.68	0.00	5.63	4.64	0.00	0.00	53.84	3.25	3.25
15-Jun-16	53.98	23.99	3.26	0.00	0.00	1.71	0.00	0.00	43.44	126.38	0.00	0.00	2.45	17.53	7.91	2.81	10.67	0.25	4.89	4.67	5.61	0.00	56.79	0.06	0.06
16-Jun-16	50.21	19.98	6.10	0.00	0.00	0.57	0.00	0.00	44.32	121.18	0.00	0.00	2.53	18.15	9.73	3.52	11.42	0.00	4.79	4.68	0.00	0.00	54.82	0.00	0.00
17-Jun-16	53.72	22.13	6.10	0.00	0.00	0.26	0.00	0.00	55.48	137.70	0.00	0.00	2.67	8.93	8.64	3.78	11.26	0.00	4.79	4.69	0.00	0.00	44.75	0.00	0.00
18-Jun-16	60.74	22.81	5.03	0.00	0.00	0.73	0.00	0.00	58.38	147.67	0.00	0.00	2.71	9.79	10.44	4.05	11.45	0.00	4.35	4.80	0.00	0.00	47.59	0.00	0.00
19-Jun-16	54.73	20.73	2.90	0.00	0.00	0.00	0.00	0.00	53.53	131.89	0.00	4.80	2.28	18.43	10.39	3.08	11.04	0.00	4.87	4.63	0.00	0.00	59.50	0.00	0.00
20-Jun-16	55.84	21.70	1.80	0.00	0.00	0.00	0.10	0.00	56.61	136.06	0.00	3.61	2.92	20.24	11.44	4.44	11.12	0.19	4.86	4.57	0.00	0.00	63.37	0.34	0.34
21-Jun-16	53.94	18.48	0.28	0.00	0.00	0.00	0.83	0.00	54.56	128.10	0.00	4.08	3.16	17.98	10.49	5.52	9.43	0.33	4.92	4.12	0.00	0.00	60.03	5.14	5.14
22-Jun-16	52.76	22.57	0.55	0.00	0.00	0.00	0.60	0.00	50.43	126.90	0.00	4.32	4.40	20.21	9.88	7.86	9.63	0.00	4.76	3.08	0.00	0.00	64.14	5.29	5.29
23-Jun-16	55.32	22.27	4.15	0.00	0.00	0.00	0.35	0.00	48.99	131.08	0.00	4.57	2.98	16.30	8.46	3.73	10.70	0.00	4.60	4.08	0.00	0.00	55.41	12.59	12.59
24-Jun-16	63.90	28.48	1.61	0.00	0.00	0.00	0.69	0.00	54.45	149.13	0.00	6.83	3.41	19.11	11.11	5.43	11.84	0.00	4.84	4.15	0.00	0.00	66.72	7.38	7.38
25-Jun-16	64.22	27.61	4.65	0.00	0.00	0.66	0.82	0.00	56.29	154.26	0.00	-5.82	3.21	17.67	10.51	4.08	12.18	0.00	4.84	4.20	0.00	0.00	50.88	6.17	6.17
26-Jun-16	60.74	27.62	4.79	0.00	0.00	-0.19	0.74	0.00	58.08	151.78	0.00	7.41	3.33	15.45	8.44	2.62	11.94	0.00	4.13	4.13	0.00	0.00	57.46	11.48	11.48
27-Jun-16	60.74	27.12	4.79	0.00	0.00	0.00	1.06	0.00	52.06	145.77	0.00	5.90	3.33	15.45	7.05	2.62	11.90	0.00	4.88	4.46	0.00	0.00	55.59	11.48	11.48
28-Jun-16	58.54	21.03	2.33	0.00	0.00	0.00	0.45	0.00	49.40	131.74	0.00	4.71	2.73	15.40	4.95	2.25	10.98	0.00	4.70	4.57	0.00	0.00	50.29	11.45	11.45
29-Jun-16	66.35	24.80	6.02	0.00	0.00	0.00	0.69	0.00	44.98	142.84	0.00	6.02	3.22	17.00	5.31	2.19	12.23	0.00	4.81	4.64	0.00	0.00	55.42	15.09	15.09
30-Jun-16	63.81	23.54	3.43	0.00	0.00	0.67	0.45	0.00	52.01	143.92	0.00	5.72	3.15	15.82	5.89	3.18	11.49	0.00	2.57	4.17	0.00	0.00	52.00	22.14	22.14
Total	1757.18	543.16	68.61	0.00	0.00	8.96	9.69	0.00	1598.96	3986.55	0.00	92.50	82.88	425.62	226.36	90.69	310.57	2.75	146.20	134.41	5.61	0.00	1517.58	119.29	119.29

12.2 Export of NR to WR, ER & NER during June 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 Ballia	ER-NR 400 KV Patna - Balla 2x0/C	ER - NR 400 KV Muzaffarpur - G'pur D/C	ER - NR 400 KV B'shariff Balla D/C	ER - NR 400 KV Barh - G'pur D/C	ER - NR 400 KV B'shariff Varanasi D/C	ER - NR HVDC Sataram (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 Biwanath Chariali - Agra	Total NR- NER
1-Jun-16	0.00	0.00	2.75	7.38	5.91	1.30	0.00	0.00	0.00	17.35	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.22	1.52	0.00	5.45	0.82	9.45	0.00	0.00
2-Jun-16	0.00	0.00	3.81	7.04	5.41	1.64	0.03	0.00	0.00	17.93	4.24	0.00	0.00	0.00	0.00	0.00	0.00	1.19	0.00	0.00	0.56	0.92	6.91	0.00	0.00
3-Jun-16	0.00	0.00	1.23	6.21	4.83	1.14	0.00	0.00	0.00	13.41	4.52	0.00	0.00	0.00	0.00	0.00	0.00	1.05	0.00	0.00	0.51	0.96	7.03	0.00	0.00
4-Jun-16	0.00	0.00	3.25	4.57	3.15	0.00	0.00	0.00	0.00	10.96	4.03	0.00	0.00	0.00	0.00	0.00	0.00	2.29	0.00	0.00	0.49	0.79	7.60	0.00	0.00
5-Jun-16	0.00	0.00	4.88	2.79	1.10	0.00	0.00	0.00	0.00	8.77	4.51	0.00	0.00	0.00	0.00	0.00	0.00	2.29	0.00	0.00	0.55	0.72	8.08	0.00	0.00
6-Jun-16	0.00	0.00	6.12	2.98	1.28	0.00	0.00	0.00	0.00	10.38	4.96	0.00	0.00	0.00	0.00	0.00	0.00	1.93	0.00	0.00	0.59	0.56	8.03	0.00	0.00
7-Jun-16	0.00	0.00	5.85	6.07	4.66	0.94	0.29	0.00	0.00	17.81	3.04	0.00	0.00	0.00	0.00	0.00	0.00	2.30	0.00	0.00	0.47	0.53	6.35	0.00	0.00
8-Jun-16	0.00	0.00	2.73	7.39	6.20	0.46	0.31	0.00	0.00	17.08	3.16	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.00	0.00	0.32	0.56	5.60	0.00	0.00
9-Jun-16	0.00	0.00	6.17	6.88	5.76	0.07	0.14	0.00	0.00	19.02	5.10	0.00	0.00	0.00	0.00	0.00	0.00	1.95	0.00	0.00	-0.57	-0.54	5.93	0.00	0.00
10-Jun-16	0.00	0.00	3.31	6.22	5.12	0.00	0.19	0.00	0.00	14.85	6.04	0.00	0.00	0.00	0.00	0.00	0.00	2.55	0.00	0.00	0.90	0.65	10.13	0.00	0.00
11-Jun-16	0.00	0.00	4.23	6.71	5.53	0.00	0.14	0.00	0.00	16.60	6.36	0.00	0.00	0.00	0.00	0.41	0.00	2.19	0.00	0.00	0.53	0.69	10.17	0.00	0.00
12-Jun-16	0.00	0.00	4.80	4.93	3.94	0.00	0.24	0.00	0.00	13.91	5.17	0.00	0.00	0.00	0.00	0.00	0.00	2.09	0.00	0.00	0.55	0.57	8.37	0.00	0.00
13-Jun-16	0.00	0.00	1.23	5.96	5.40	0.00	0.11	0.00	0.00	12.70	5.43	0.00	0.00	0.00	0.00	0.00	0.00	1.48	0.00	0.00	0.54	0.69	8.14	0.00	0.00
14-Jun-16	0.00	0.00	2.74	5.71	5.13	0.00	0.00	0.00	0.00	13.58	4.21	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.49	0.65	5.68	0.00	0.00
15-Jun-16	0.00	0.00	0.94	4.59	4.29	0.00	0.07	0.00	0.00	9.90	3.17	3.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	7.72	0.00	0.00
16-Jun-16	0.00	0.00	0.00	4.37	3.78	0.00	0.67	0.00	0.00	8.82	1.37	3.97	0.00	0.00	0.00	0.00	0.00	0.64	0.00	0.00	3.46	0.53	9.96	0.00	0.00
17-Jun-16	0.00	0.00	0.00	5.29	4.09	0.00	0.60	0.00	0.00	9.98	2.44	5.27	0.00	0.00	0.00	0.00	0.00	0.90	0.00	0.00	0.41	0.59	9.61	0.00	0.00
18-Jun-16	0.00	0.00	0.00	5.14	3.59	0.00	0.32	0.00	0.00	9.05	2.41	5.76	0.00	0.00	0.00	0.00	0.00	1.03	0.00	0.00	0.53	0.58	10.30	1.25	1.25
19-Jun-16	0.00	0.00	0.53	4.40	2.67	0.36	0.65	0.00	0.00	8.61	2.39	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.60	0.59	4.05	0.00	0.00
20-Jun-16	0.00	0.00	0.65	5.27	3.68	-0.65	0.00	0.00	0.00	8.96	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.68	3.02	0.00	0.00
21-Jun-16	0.00	0.00	3.43	7.95	6.57	2.41	0.00	0.00	0.00	20.36	2.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.41	3.90	0.00	0.00
22-Jun-16	0.00	0.00	3.21	7.38	6.31	1.98	0.00	0.00	0.00	18.88	1.63	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.44	0.42	2.65	0.00	0.00
23-Jun-16	0.00	0.00	1.16	5.28	3.57	0.82	0.00	0.00	0.00	10.83	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.34	3.28	0.00	0.00
24-Jun-16	0.00	0.00	1.49	3.90	3.01	0.10	0.00	0.00	0.00	8.51	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.29	1.69	0.00	0.00
25-Jun-16	0.00	0.00	0.04	2.93	1.89	0.00	0.00	0.00	0.00	4.86	1.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.59	0.38	2.11	0.00	0.00
26-Jun-16	0.00	0.00	0.00	3.44	2.33	0.00	0.00	0.00	0.00	5.77	2.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.42	3.48	0.00	0.00
27-Jun-16	0.00	0.00	0.00	5.28	2.33	-0.79	0.00	0.00	0.00	6.83	2.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.46	2.05	0.00	0.00
28-Jun-16	0.00	0.00	1.44	7.05	4.73	1.21	0.00	0.00	0.00	14.44	3.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.55	4.95	0.00	0.00
29-Jun-16	0.00	0.00	0.00	2.78	3.08	0.04	0.00	0.00	0.00	5.89	3.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.69	0.41	4.72	0.00	0.00
30-Jun-16	0.00	0.00	0.00	3.73	0.00	0.00	0.00	0.00	0.00	3.73	1.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.10	0.00	0.59	0.47	5.35	0.00	0.00
Total	0.00	0.00	66.01	159.62	119.36	11.04	3.76	0.00	0.00	359.79	98.39	18.94	0.00	0.00	0.00	0.41	0.00	26.62	4.62	0.00	21.99	15.35	186.31	1.25	1.25

Date	12.3 Import - Export of ER with WR & NER during June 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 - Bongaliga on 2xD/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 - Bongaliga on 2xD/C	NER - ER 220 kV Birpara - Salakati D/C	Total NER - ER
1-Jun-16	0.0	0.0	1.9	0.0	0.0	0.0	0.1	0.00	1.96	2.2	23.2	0.0	1.9	0.3	0.5	0.4	0.0	2.4	30.74	0.27	0.92	2.79	1.04	5.02	0.00	0.00	0.00	0.00	0.00	
2-Jun-16	0.0	0.0	3.9	0.0	0.8	0.9	1.1	0.2	0.00	6.90	0.7	18.4	0.0	0.2	0.0	0.0	0.0	1.4	20.66	0.08	0.62	2.92	0.64	4.26	0.00	0.00	0.00	0.00	0.00	
3-Jun-16	0.0	0.0	3.2	0.0	0.4	0.2	0.5	0.0	0.00	4.35	1.7	19.1	0.0	1.3	0.0	0.0	1.0	2.3	25.44	0.00	0.55	0.16	0.16	0.87	0.04	0.00	0.00	0.00	0.04	
4-Jun-16	0.0	0.0	3.1	0.0	0.9	0.4	1.3	0.2	0.00	5.91	2.2	19.9	0.0	1.5	0.0	0.0	0.0	1.6	25.18	0.00	0.76	1.85	0.28	2.89	0.10	0.00	0.00	0.00	0.10	
5-Jun-16	0.0	0.0	4.1	0.0	0.8	0.7	1.1	0.6	0.00	7.17	1.2	19.8	0.0	0.7	0.0	0.0	0.0	1.6	23.25	0.16	0.79	0.00	0.04	0.99	0.00	0.00	3.01	0.00	3.01	
6-Jun-16	0.0	0.0	3.0	0.0	1.8	1.3	2.5	0.2	0.00	8.89	1.5	16.8	0.0	3.0	0.0	0.0	0.0	2.1	23.35	0.29	0.91	0.00	0.45	1.65	0.00	0.00	1.52	0.00	1.52	
7-Jun-16	0.0	0.0	0.4	0.0	1.2	0.7	1.6	0.3	0.00	4.20	2.8	15.3	0.0	4.1	0.0	0.0	0.0	1.9	24.08	0.49	1.03	0.00	0.93	2.45	0.00	0.00	0.24	0.00	0.24	
8-Jun-16	0.0	0.0	0.0	0.0	0.3	0.4	1.4	0.0	0.00	2.17	3.1	14.3	0.1	3.3	0.0	0.0	0.2	2.6	23.49	0.25	1.03	0.00	0.60	1.87	0.00	0.00	1.61	0.00	1.61	
9-Jun-16	0.0	0.0	0.3	0.0	0.3	0.8	2.1	0.0	0.00	3.51	2.4	13.1	0.0	3.6	0.0	0.0	0.7	3.1	22.90	0.14	0.87	0.00	0.35	1.37	0.00	0.00	2.02	0.00	2.02	
10-Jun-16	0.0	0.0	2.3	0.0	0.5	1.1	2.1	0.2	0.00	6.24	1.7	11.4	0.0	3.1	0.0	0.0	0.0	2.2	18.44	0.16	0.84	0.00	0.23	1.24	0.00	0.00	1.87	0.00	1.87	
11-Jun-16	0.0	0.0	4.4	0.0	1.1	1.1	1.5	0.5	0.00	8.49	1.1	8.7	0.0	1.7	0.0	0.0	0.0	1.9	13.36	0.18	0.82	0.00	0.21	1.21	0.00	0.00	3.03	0.00	3.03	
12-Jun-16	0.0	0.0	4.3	0.0	1.5	1.3	2.0	0.3	0.00	9.36	1.6	11.3	0.0	1.3	0.0	0.0	0.0	1.8	16.00	0.14	0.72	0.00	0.01	0.88	0.00	0.00	5.02	0.00	5.02	
13-Jun-16	0.0	0.0	3.8	0.0	1.3	1.1	1.8	0.0	0.00	7.97	2.0	8.9	0.0	2.5	0.0	0.0	0.3	2.3	15.97	0.31	0.69	0.00	0.05	1.05	0.00	0.00	7.80	0.00	7.80	
14-Jun-16	0.0	0.0	4.3	0.0	1.2	1.2	2.0	0.0	0.00	8.63	0.9	5.3	0.0	1.9	0.0	0.0	0.1	2.3	10.51	0.54	0.97	0.00	0.76	2.26	0.00	0.00	3.10	0.00	3.10	
15-Jun-16	0.5	0.0	1.4	0.0	0.5	1.2	2.0	0.0	0.00	5.60	0.0	6.8	0.0	2.0	0.0	0.0	1.0	3.4	13.22	0.52	1.00	0.00	1.03	2.55	0.00	0.00	2.37	0.00	2.37	
16-Jun-16	0.0	0.0	0.0	0.0	0.9	0.3	1.2	0.2	0.00	2.65	1.4	11.0	0.0	4.2	0.0	0.0	0.0	1.9	18.48	0.26	0.94	0.00	0.84	2.03	0.00	0.00	6.63	0.00	6.63	
17-Jun-16	0.0	0.0	0.7	0.0	1.0	0.0	1.3	0.1	0.00	3.04	1.5	11.5	0.0	4.8	0.0	0.0	0.0	1.6	19.32	0.41	0.83	0.00	0.68	1.92	0.00	0.00	5.58	0.00	5.58	
18-Jun-16	0.0	0.0	3.0	0.0	1.0	0.4	1.4	0.0	0.00	5.80	3.0	11.8	0.0	4.9	0.0	0.0	0.2	2.3	22.27	0.71	0.96	0.00	0.75	2.42	0.00	0.00	8.19	0.00	8.19	
19-Jun-16	0.0	0.0	2.7	0.0	1.2	0.4	1.7	0.0	0.00	6.13	4.1	5.5	0.0	2.6	0.0	0.0	0.1	2.4	14.84	0.76	0.96	0.00	1.02	2.74	0.00	0.00	7.34	0.00	7.34	
20-Jun-16	0.0	0.0	1.9	0.0	1.3	0.6	1.9	0.0	0.00	5.72	4.1	5.2	0.0	2.2	0.0	0.0	0.0	2.3	13.77	0.60	0.86	0.00	0.85	2.30	0.00	0.00	10.04	0.00	10.04	
21-Jun-16	0.0	0.0	3.5	0.0	1.3	1.1	1.8	0.1	0.00	7.80	1.8	4.7	0.0	1.6	0.0	0.0	0.0	2.3	10.36	0.75	0.95	0.00	1.39	3.08	0.00	0.00	3.92	0.00	3.92	
22-Jun-16	0.0	0.0	3.3	0.0	1.2	1.0	1.6	0.3	0.00	7.51	1.3	7.3	0.0	1.7	0.0	0.0	0.0	2.0	12.27	0.73	0.94	0.00	1.36	3.03	0.00	0.00	3.18	0.00	3.18	
23-Jun-16	0.0	0.0	2.8	0.0	0.9	0.6	1.3	0.5	0.00	6.08	2.5	6.6	0.0	1.5	0.0	0.0	0.0	1.7	12.31	0.78	0.78	2.69	1.82	6.08	0.00	0.00	0.00	0.00	0.00	
24-Jun-16	0.0	0.0	2.9	0.8	1.1	1.2	1.5	0.0	0.00	7.49	1.3	4.9	0.0	0.0	0.0	0.0	0.4	1.8	8.34	0.75	0.95	0.00	0.96	2.65	0.00	0.00	3.78	0.00	3.78	
25-Jun-16	1.0	0.0	2.7	0.8	0.5	0.8	0.6	0.0	0.00	6.50	0.0	7.7	0.0	0.0	0.0	0.0	0.1	2.2	10.02	0.73	0.99	0.00	1.54	3.26	0.00	0.00	2.04	0.00	2.04	
26-Jun-16	0.0	0.0	2.2	0.7	0.7	0.7	1.0	0.0	0.00	5.24	0.9	9.7	0.0	0.0	0.0	0.0	0.0	2.3	12.89	0.71	0.93	4.84	1.84	8.32	0.00	0.00	0.00	0.00	0.00	
27-Jun-16	0.0	0.0	1.7	0.7	0.7	0.7	1.0	0.6	0.00	5.36	1.3	15.5	0.0	0.0	0.0	0.0	0.0	2.1	18.92	0.83	0.71	5.55	1.93	9.03	0.00	0.00	0.00	0.00	0.00	
28-Jun-16	0.0	0.0	2.0	0.9	1.1	0.9	1.5	0.0	0.00	6.41	1.8	15.3	0.0	0.0	0.0	0.0	0.3	2.4	19.78	0.83	0.69	6.95	1.93	10.41	0.00	0.00	0.00	0.00	0.00	
29-Jun-16	0.0	0.0	2.1	1.3	1.6	1.5	2.2	0.0	0.00	8.67	1.2	17.1	0.0	0.0	0.0	0.0	0.7	2.3	21.30	0.69	0.92	10.93	2.33	14.86	0.00	0.00	0.00	0.00	0.00	
30-Jun-16	0.7	0.0	2.5	1.3	1.2	1.4	1.6	0.7	0.00	9.38	0.0	18.0	0.0	0.0	0.0	0.0	0.0	0.7	18.70	0.80	1.06	17.54	3.31	22.70	0.00	0.00	0.00	0.00	0.00	
Total	2.14	0.00	74.53	6.38	28.20	24.15	44.54	5.19	0.00	185.13	51.27	364.14	0.06	55.60	0.26	0.45	0.41	5.02	62.93	540.15	13.88	25.99	56.22	29.34	125.43	0.14	0.00	82.30	0.00	82.44

Date	12.4 Import and Export of SR with ER & WR during June 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-Jun-16	11.9	39.4	51.28	0.00	0.00	0.00	23.36	34.21	0.80	58.38	0.00	0.00	0.02	0.02
2-Jun-16	12.5	40.3	52.86	0.00	0.00	0.00	20.66	32.41	0.75	53.82	0.00	0.00	0.24	0.24
3-Jun-16	4.6	41.4	46.05	0.00	0.00	0.00	20.83	27.88	0.38	49.09	0.00	0.00	0.09	0.09
4-Jun-16	3.2	30.0	33.17	0.00	0.00	0.00	19.87	24.09	0.52	44.47	0.00	0.00	0.00	0.00
5-Jun-16	11.4	35.6	46.95	0.00	0.00	0.00	16.99	30.09	0.77	47.84	0.00	0.00	0.11	0.11
6-Jun-16	13.0	36.4	49.40	0.00	0.00	0.00	19.47	32.61	0.77	52.85	0.00	0.00	0.19	0.19
7-Jun-16	13.8	42.2	56.02	0.00	0.00	0.00	23.65	36.90	1.14	61.69	0.00	0.00	0.00	0.00
8-Jun-16	14.1	37.3	51.43	0.00	0.00	0.00	22.16	29.99	1.15	53.29	0.00	0.00	0.11	0.11
9-Jun-16	11.1	40.7	51.75	0.00	0.00	0.00	19.95	35.12	0.61	55.68	0.00	0.00	0.06	0.06
10-Jun-16	14.3	40.3	54.65	0.00	0.00	0.00	20.66	29.36	0.35	50.38	0.00	0.00	0.00	0.00
11-Jun-16	11.4	41.2	52.54	0.00	0.00	0.00	16.23	38.91	0.40	55.54	0.00	0.00	0.04	0.04
12-Jun-16	8.6	41.7	50.26	0.00	0.00	0.00	17.69	39.27	0.44	57.40	0.00	0.00	0.02	0.02
13-Jun-16	14.0	43.8	57.84	0.00	0.00	0.00	19.92	32.94	0.66	53.52	0.00	0.00	0.19	0.19
14-Jun-16	16.1	43.2	59.34	0.00	0.00	0.00	20.04	34.75	0.80	55.59	0.00	0.00	0.01	0.01
15-Jun-16	16.1	43.1	59.24	0.00	0.00	0.00	18.85	40.06	0.77	59.68	0.00	0.00	0.19	0.19
16-Jun-16	11.5	40.6	52.13	0.00	0.00	0.00	16.95	41.54	1.43	59.93	0.00	0.00	0.49	0.49
17-Jun-16	13.7	36.9	50.52	0.00	0.00	0.00	17.24	42.50	1.47	61.21	0.00	0.00	1.30	1.30
18-Jun-16	13.7	42.6	56.33	0.00	0.00	0.00	14.45	38.30	0.93	53.68	0.00	0.10	3.38	3.48
19-Jun-16	9.5	37.0	46.57	0.00	0.00	0.00	14.77	33.48	0.57	48.83	0.00	4.37	2.57	6.94
20-Jun-16	14.1	40.8	54.95	0.00	0.00	0.00	16.65	32.30	0.76	49.71	0.00	0.00	0.67	0.67
21-Jun-16	15.7	41.7	57.33	0.00	0.00	0.00	14.49	37.30	0.87	52.66	0.00	0.00	0.14	0.14
22-Jun-16	14.8	34.3	49.12	0.00	0.00	0.00	16.99	33.29	0.77	51.05	0.00	0.00	0.02	0.02
23-Jun-16	15.4	25.2	40.65	0.00	0.00	0.00	16.41	35.08	0.76	52.25	0.00	0.00	0.11	0.11
24-Jun-16	14.0	31.8	45.88	0.00	0.00	0.00	13.93	26.56	0.46	40.95	0.00	0.00	0.34	0.34
25-Jun-16	12.7	28.4	41.12	0.00	0.00	0.00	13.55	20.70	0.68	34.93	0.00	0.00	0.18	0.18
26-Jun-16	10.5	28.3	38.75	0.00	0.00	0.00	11.12	31.46	1.44	44.02	0.00	0.00	0.12	0.12
27-Jun-16	12.2	30.9	43.06	0.00	0.00	0.00	11.93	32.95	1.74	46.61	0.00	0.00	0.00	0.00
28-Jun-16	10.2	31.7	41.86	0.00	0.00	0.00	14.14	34.47	0.85	49.46	0.00	0.00	0.00	0.00
29-Jun-16	7.3	28.9	36.22	0.00	0.00	0.00	11.18	30.21	0.48	41.87	0.00	0.00	0.00	0.00
30-Jun-16	7.3	25.5	32.85	0.00	0.00	0.00	11.80	37.60	0.25	49.65	0.00	0.00	0.01	0.01
Total	358.74	1101.36	1460.10	0.00	0.00	0.00	515.94	1006.32	23.80	1546.05	0.00	4.47	10.61	15.08

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

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	म्यान्मार MYANMAR
	Energy Exchange (In MU)	Energy Exchange (In MU)	Energy Exchange (In MU)	Energy Exchange (In MU)
अप्रैल 2016 APR'16	150.05	-196.98	-361.40	-0.09
मई 2016 MAY'16	255.38	-171.18	-373.86	-0.23
जून 2016 JUN'16	549.81	-158.47	-375.91	-0.27
कुल Total	955.23	-526.63	-1111.18	-0.60

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

द्विपक्षीय एसटीओए BILATERAL SHORT TERM OPEN ACCESS

जून 2016 June 16			April-June'16	
क्षे.भा.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	628	2266	1582	4938
प.क्षे. WR	498	1053	1583	3285
द.क्षे. SR	212	911	798	3101
पू.क्षे. ER	221	941	618	3511
पूर्वोत्तर क्षे. NER	9	60	122	308
कुल TOTAL	1568	5231	4703	15143

एसटीओए SHORT TERM OPEN ACCESS

माह MONTH	सामूहिक एसटीओए STOA		द्विपक्षीय एसटीओए Bilateral STOA	
	क्रैताओं / विक्रेताओं की सं. NO. of Buyers/Sellers	अनुमोदित ऊर्जा (मि.यु.) Approved Energy (MU)	क्रैताओं / विक्रेताओं की सं. NO. of Buyers/Sellers	अनुमोदित ऊर्जा (मि.यु.) Approved Energy (MU)
अप्रैल 2016 Apr'16	2923	3501	1675	4573
मई 2016 May'16	2822	2936	1460	5339
जून 2016 Jun'16	3003	3146	1568	5231
कुल TOTAL	8748	9583	4703	15143

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

अनंतिम आकड़े
Provisional data
subject to change

करोड़ रु. में (RS. IN CRORES)

क्षेत्र REGION	उत्तरी क्षेत्र NORTH	पश्चिमी क्षेत्र WEST	दक्षिणी क्षेत्र SOUTH	पूर्वी क्षेत्र EAST	पूर्वोत्तर क्षेत्र NORTH EAST
30.05.16 to 05.06.16	39.66	33.34	15.75	27.65	10.76
06.06.16 to 12.06.16	28.32	14.77	5.14	10.85	4.10
13.06.16 to 19.06.16	32.00	17.98	7.80	10.22	5.56
20.06.16 to 26.06.16	40.40	22.12	18.79	17.67	13.61

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 जून 2016

EXCHANGES THROUGH POWER EXCHANGES - June 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
1	पंजाब Punjab	उत्तरी क्षेत्र NR	0.00	362.28
2	हरियाणा Haryana		22.59	226.20
3	राजस्थान Rajasthan		76.23	359.46
4	दिल्ली Delhi		54.17	123.56
5	उत्तर प्रदेश Uttar Pradesh		0.00	28.56
6	उत्तराखंड Uttarakhand		0.00	72.61
7	हिमाचल प्रदेश Himachal Pradesh		318.08	14.90
8	जम्मू और कश्मीर J & K		31.86	12.06
9	केंद्र शासित चंडीगढ़ UT Chandigarh		0.00	7.02
10	ए डी हाइड्रो AD Hydro		56.72	0.00
11	करचम वांगत् KW		304.10	0.00
12	श्री सीमेंट Shree Cement		17.28	0.00
13	नाथपा झाकरी Nathpa Jhakri		27.00	0.00
14	बैरासूल Baira Siul HEP(BS0)		1.79	0.00
15	चमेरा -1 Chamera-I HEP(CM1)		5.86	0.00
16	चमेरा -2 Chamera-II HEP(CM2)		6.97	0.00
17	धौलीगंगा Dhauliganga HEP(DG0)		4.63	0.00
18	दुलहस्ती Dulahasti HEP(DU0)		8.09	0.00
19	सलाल Salal HEP(SL0)		13.46	0.00
20	सेवा -2 Sewa-II NHPC(SW2)		0.77	0.00
21	टनकपुर Tanakpur HEP(TP0)		0.56	0.00
22	उरी Uri HEP(UR0)		9.44	0.00
23	लांको बुधिल LANCO Budhil		4.34	0.00
24	चमेरा-3 chamera 3		4.98	0.00
25	अदानी एचवीडीसी ADANI HVDC(NORGU0)		0.00	0.00
26	मलाना MALANA		6.37	0.00
27	उरी-II Uri-II HEP(UR2)		5.59	0.00
28	पार्वति-III Parbati-II		2.49	0.00
29	सिंगरौली Singrauli		0.66	0.00
30	दादरी-I Dadri stage-I		1.44	0.00
31	दादरी-II Dadri stage-II		2.45	0.00
32	ऊंचाहार-I Unchahar-I TPS		0.11	0.00
33	ऊंचाहार-II Unchahar-II TPS		0.21	0.00
34	ऊंचाहार-III Unchahar-III TPS		0.11	0.00
35	रिहंद-I Rihand STPS-I		0.40	0.00
36	रिहंद-II Rihand STPS-II		0.91	0.00
37	रिहंद-III Rihand STPS-III		1.20	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 जून 2016

EXCHANGES THROUGH POWER EXCHANGES - June 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
38	मध्य प्रदेश MP	पश्चिमी क्षेत्र WR	105.45	56.57
39	महाराष्ट्र Maharashtra		21.45	167.11
40	गुजरात Gujarat		40.14	431.89
41	छत्तीसगढ़ Chattisgarh		57.67	19.18
42	गोवा Goa		2.82	17.26
43	दमन और दीव Daman and Diu		0.00	39.26
44	दादरा और नगर हवेली Dadra & Nagar Haveli		0.00	173.57
45	जिंदल JD		133.94	0.00
46	लांको अमरकंटक LANCO AMK		0.00	0.00
47	आर्यन कोल ACB India Limited		39.14	0.00
48	जिंदल स्टील एंड पावर Jindal Steel and Power Ltd		7.22	0.00
49	बालको -2 Balco-II		19.19	0.00
50	स्टरलाइट Sterlite(w3rse0)		90.93	0.00
51	एमको EMCO		0.00	0.00
52	वन्दना विद्युत VANDANA VIDYUT		0.00	0.00
53	एस्सार पावर ESSAR POWER		0.00	0.00
54	एस्सार स्टील ESSAR STEEL		0.00	143.79
55	के एस के महानदी KSK Mahanadi		0.00	0.00
56	जिंदल स्टेज -II Jindal Stg-II		0.43	0.00
57	कोरबा (प.) Korba(W) Comp. Ltd.		84.97	0.00
58	डी बी पावर D B Power		113.14	0.00
59	धारीवाल Dhariwal		4.81	0.00
60	जे पी निग्री Jaypee Nigire		68.26	0.00
61	जी एम आर छत्तीसगढ़ GMR Chhattisgarh		0.00	0.00
62	डी जीईएन मेगा पावर DGEN Mega Power		0.00	0.00
63	एम बी मेगा पावर MB Power		0.00	0.00
64	एपीएल मुंद्रा स्टेज-I APL Mundra Stg-I		15.45	0.00
65	एपीएल मुंद्रा स्टेज-II APL Mundra Stg-II		60.22	0.00
66	एपीएल मुंद्रा स्टेज-III APL Mundra Stg-III		12.53	0.00
67	टोरेंट सुगेन Torrent Sugem	0.00	0.00	
68	मारुति कोल Maruti Coal	37.67	0.00	
69	स्पेक्ट्रम Spectrum	1.50	0.00	
70	झाबुआ पावर Jhabua Power	43.08	0.00	
71	विंध्याचल-I Vindhychal Stg-I	0.64	0.00	
72	विंध्याचल-II Vindhychal Stg-II	0.06	0.00	
73	विंध्याचल-III Vindhychal Stg-III	0.05	0.00	
74	विंध्याचल-IV Vindhychal Stg-IV	0.11	0.00	
75	विंध्याचल-V Vindhychal Stg-V	0.00	0.00	
76	मौदा-I Mouda STPS Stg-I	0.00	0.00	
77	सीपत-I Sipat Stg-I	0.00	0.00	
78	सीपत-II Sipat Stg-II	0.00	0.00	
79	सासन Sasan UMPP	34.47	0.00	

15. पावर मार्केट की सूचना (स्रोत : आई.ई.एक्स. एवं पी.एक्स.आई.एल.)

POWER MARKET INFORMATION (Source IEX & PXIL)

पावर एक्सचेंज के माध्यम से विनिमय - माह जून 2016

EXCHANGES THROUGH POWER EXCHANGES - June 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
80	आंध्र प्रदेश Andhra Pradesh	दक्षिणी क्षेत्र SR	23.87	108.70
81	कर्नाटक Karnataka		22.11	198.73
82	केरल Kerala		13.09	41.69
83	तमिलनाडु Tamilnadu		10.63	19.70
84	पॉण्डिचेरी Pondicherry		0.00	2.31
85	गोवा Goa		0.00	0.00
86	लांको कोंडापल्ली LANCO_KONDPLY		0.00	0.00
87	सिमापुरी SIMHAPURI		74.86	0.00
88	मीनाक्षी MINAXI		150.30	0.00
89	तेलंगाना TELANGANA		69.39	252.23
90	थर्मल पावर टेक Thermal Power Tech		90.10	0.00
91	कोस्टल इनरजेन Coastal Energen		3.79	0.00
92	आइ एल & एफ एस IL&FS		14.31	0.00
93	सिमहाद्री-II Simhadri Stg-II		0.04	0.00
94	एनएलसी-I विस्तार NLC TPS-I (Exp)		0.45	0.00
95	एनएलसी-II स्टेज-I NLC TPS-II Stg-I		0.46	0.00
96	एनएलसी-II स्टेज-II NLC TPS-II Stg-II		0.50	0.00
97	पश्चिम बंगाल West Bengal	पूर्वी क्षेत्र ER	36.35	118.93
98	उड़ीशा Odisha		30.75	11.21
99	बिहार Bihar		0.00	80.59
100	झारखंड Jharkhand		0.00	0.00
101	सिक्किम Sikkim		48.71	0.00
102	दामोदर घाटी परियोजना DVC		22.40	0.00
103	स्टरलाइट STERLITE		0.00	0.00
104	मैथन पावर लिमिटेड Maithon P. Ltd		0.00	0.00
105	आधुनिक पा. लिमिटेड Adhunik P.Ltd		2.13	0.00
106	चुजाचेन Chuzachen HEP		57.90	0.00
107	रंगित Rangit HEP		0.00	0.00
108	तीस्ता Teesta HEP	0.00	0.00	
109	जीएमआर कमलंगा GMR Kamalanga	49.74	0.00	
110	जिंदल आई पी टी एल JIPLT	174.01	0.00	
111	जोरथांग Jorethang	44.32	0.00	
112	अरुणाचल प्रदेश Arunachal Pradesh	पूर्वोत्तर क्षेत्र NER	15.54	0.38
113	असम Assam		36.23	51.32
114	मणिपुर Manipur		30.26	0.00
115	मेघालय Meghalaya		19.58	5.29
116	मिज़ोरम Mizoram		24.92	0.00
117	नागालैंड Nagaland		5.25	0.06
118	त्रिपुरा Tripura		37.24	0.00
119	अगरतला जीटीपीपी Agartala GTPP_AGO		7.58	0.00
120	कोपिली KOPILI_KP1		11.93	0.00
121	असम जीबीपीपी Assam GBPP_KTO		13.43	0.00
122	लोकटक LOKTAK		0.00	0.00
123	रंगानदी Ranganadi		12.38	0.00
124	दोयांग Doyang		2.40	0.00
125	पलाताना Palatana		0.00	0.00
126	कोपिली-II Kopili-II		0.79	0.00
127	खडोंग Khandong	2.52	0.00	
कुल Total			3146.41	3146.41

16. RENEWABLE ENERGY CERTIFICATE MECHANISM**MONTH:-June 2016****RE Source & Unit wise break up (01.06.2016-30.06.2016)**

Sr.No	Source Wise	Accreditation		Registration	
		Capacity (MW)	Unit	Capacity (MW)	Unit
1	Wind	108	20	126	12
2	Urban or Municipal Waste	0	0	0	0
3	Solar Thermal	0	0	0	0
4	Solar PV	27	16	47	21
5	Small Hydro	5	1	10	4
6	Others	0	0	0	0
7	Geothermal	0	0	0	0
8	Biomass	67	5	42	4
9	Bio-fuel cogeneration	77	10	100	13
	Total	284	52	325	54

RECs Issued (01.05.2016-31.05.2016)

Sr.No.	Non Solar	Solar	Total
1	451138	57757	508895

Redemption of REC ((01.05.2016-31.05.2016)

Sr.No.	Non Solar	Solar	Total
1	417292	51731	469023

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

Sr.No	Source Wise	Accreditation		Registration	
		Capacity (MW)	Unit	Capacity (MW)	Unit
1	Wind	253	33	197	21
2	Urban or Municipal Waste	0	0	0	0
3	Solar Thermal	0	0	0	0
4	Solar PV	78	36	78	34
5	Small Hydro	21	3	10	4
6	Others	0	0	0	0
7	Geothermal	0	0	0	0
8	Biomass	107	8	42	4
9	Bio-fuel cogeneration	112	15	117	15
	Total	571	95	444	78

RECs Issued (Apr-Jun 16)

Sr.No.	Non Solar	Solar	Total
1	1245391	318204	1563595

Redemption of REC (Apr-Jun 16)

Sr.No.	Non Solar	Solar	Total
1	944224	103311	1047535

16. RENEWABLE ENERGY CERTIFICATE MECHANISM

MONTH:-June 2016

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

Sr.No	Source Wise	Accreditation		Registration	
		Capacity (MW)	Unit	Capacity (MW)	Unit
1	Wind	2444	622	2255	593
2	Urban or Municipal Waste	8	1	0	0
3	Solar Thermal	3	1	0	0
4	Solar PV	712	353	699	340
5	Small Hydro	327	39	260	31
6	Others	2	1	2	1
7	Geothermal	0	0	0	0
8	Biomass	773	81	700	76
9	Bio-fuel cogeneration	1066	123	1005	117
	Total	5335	1221	4921	1158

RECs Issued since Inception to June 16

Sr.No.	Non Solar	Solar	Total
1	28601580	4537438	33139018

Redemption of REC since Inception to June 16

Sr.No.	Non Solar	Solar	Total
1	15022895	1011583	16034478

REC Closing balance as on 30.06.2016

Sr.No.	Non Solar	Solar	Total
1	13578685	3525855	17104540

17. Major Grid Events for June 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					
	SR	Tripping of 220kV lines and Units at Vijayawada TPS of APGENCO	AP	02-06-2016	00:42	02-06-2016	06:53	06:11	R phase to earth fault had occurred in 220kV Vijayawada TPS-Podili line. Breaker at Vijayawada TPS end was under lockout and this resulted in operation of LBB protection and further leading tripping of 220kV Bus-1 at Vijayawada TPS. Vijayawada TPS has a double main and transfer bus scheme. Hence all elements connected to Bus-1 (Unit-1, 4 and 5, Station transformer-4&5, Lines: Vijayawada TPS-Podili, Vijayawada TPS-Tallapalli-1&3, Vijayawada TPSTadikonda-1, Vijayawada TPS-Gunadala, Vijayawada TPS-Chillakallu-1, Vijayawada TPS-Kondapalli-1) got tripped with tripping of 220kV bus-1. Unit3 and Unit-6 connected to 220kV Bus-2 also got tripped during the incident due to tripping of auxiliaries	750		GI-I
	SR	Complete outage of 400/220kV Hoody substation of KPTCL.	KPTCL	02-06-2016	04:56	02-06-2016	08:55	03:59	Bushing of R-phase ICT -2 got failed at Hoody station at 3:09 hrs. ICT-1&3 and 400kV lines at Hoody substation were hand tripped at 4:56 hrs for fire extinguishing. This resulted in complete outage		700	GD-I
	NR	1)400kV Baglihar(JK)-Kishenpur(PG) ckt 2 tripped. 2)400kV Kishenpur-Samba 2 3)Baglihar 150MW unit # 4)Baglihar 150MW unit # 5)Baglihar 150MW unit #	PDD J&K/POWERGRID	02-06-2016	10:19	02-06-2016	10:39	00:20	Multiple elements tripped at 400kV Baglihar(J&K). Phase to earth fault reported.	450	Nil	GD-I
	WR	Tripping of 1. 220/132 kV Bhilai ICT-I & II 2. 220/132 kV Urla ICT-I, II & III due to overloading	CSPTCL	03-06-2016	02:07	03-06-2016	03:20	01:13	Tripping of ICTs at 220/132 Urla and 220/132 kV Bhilai caused load shedding in the area when got overloaded with loss of 132 kV circuit.	Nil	323	GI-I
	WR	Tripping of 1. 400 kV Indrasagar-Nagda 2. 400 kV Indrasagar-Satpura 3. ISP Unit-6 tripped while transferring feeders on to bus-I at ISP	NHDC	04-06-2016	12:17	04-06-2016	13:42	01:25	While transferring the feeders onto BUS I after completing the outage the feeders 400 kV Satpura-ISP S/C, 400 kV ISP-Nagda S/C and 400 kV ISP-Indore-II tripped. One running unit at ISP also tripped.	100	Nil	GI-II
	NR	1)600MW Kalisindh unit #1 2)600MW Kalisindh unit #2	Rajasthan	04-06-2016	17:15	05-06-2016	03:12	09:57	Multiple elements tripped at 400kV Kalisindh(Rajasthan) due to UPS supply failure.	800	Nil	GD-I
	NR	1)220kV Pampore-Wagoora D/C 2)220kV Sarna(PSEB)-Udhampur(JK) 3)220kV Kishenpur-Samba 2 already tripped at 13:25hrs	PDD J&K/POWERGRID/Punjab	04-06-2016	13:48	04-06-2016	14:15	00:27	Multiple elements tripped at 220kV Pampore (J&K) & Wagoora (PG).Phase to earth fault reported.	Nil	450	GD-I
	NER	132 kV Aizwal - Zuangtui	POWERGRID	04-06-2016	18:32	04-06-2016	18:56	00:24	Zuangtui area of Mizoram was connected with rest of NER Grid through 132 kV Aizawl- Zuangtui line. At 18:32 Hrs on 04.06.16, 132 kV Aizawl- Zuangtui line tripped. Due to tripping of this element, Zuangtui area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	38	GD-I
	NER	132 kV Lekhi - Nirjuli	POWERGRID & DoP,AP	05-06-2016	02:16	05-06-2016	02:28	00:12	Nirjuli area of Arunachal Pradesh and part of Gohpur Area of Assam were connected with rest of NER Grid through 132 kV Nirjuli - Lekhi line (Bus Coupler CB of Gohpur kept open for system requirement). At 02:16 Hr on 05.06.16, 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.	0	27	GD-I
	SR	HVDC BHADRAVATHI POLE 1	Powergrid	05-06-2016	05:56	05-06-2016	13:04	07:08	VALVE COOLING PROBLEM			GI-II
	NER	132 kV Khliehriat (PG) - Khliehriat (ME) I&II lines,132 kV NEHU - NEIGRIHMS , 132 kV NEIGRIHMS - Khliehriat (ME) & Leshka U 2	MePTCL/ POWERGRID & MePGCL	06-06-2016	11:36	06-06-2016	11:42	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 Byrnhat (132 kV Khliehriat-Lumnsong line,132 kV Nangalbibra-Nongstoin line,132 kV Sarusajai-Umtru I&II lines and 132 kV Kahlipara-Umtru I&II lines kept open for system requirement). At 11:36 Hrs on 06.06.16 ,132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines, 132 kV NEIGRIHMS - NEHU line & 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.	35	26	GD-I
	NR	1) 400kV Muzaffarnagar-Vishnuprayag 2)400kV Muzaffarnagar-Alaknanda 3) All 4 running units at Vishnuprayaga HEP generating 440MW 4)All 4 running units at Alaknanda generating 266MW	UP	06-06-2016	12:35	06-06-2016	12:55	00:20	Multiple elements tripped at 400kV Vishnuprayag HEP and Alaknanda HEP.	700	Nil	GD-I
	WR	Tripping of 1. 220kV Pandhurna-Chhindwara 2. 220kV Pandhurna-Kalmeshwar 3. 220kV Pandhurna-Sarni 4. 132kV Pandhurna-Multai 5. 132kV Pandhurna-Borgoan due to heavy storm and rainfall	MPPTCL	06-06-2016	15:57	06-06-2016	16:23	00:26	Heavy storm and rainfall prevailed at Pandhurna area in MP and at 15:57hrs 220kV Main bus B-ph over fly jumper snapped and associated feeders tripped at remote end only. 132kV Multai feeder and 132kV Borgoan feeders also tripped at remote end	Nil	100	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					
	NR	1)400/220kV, 315MVA Hissar (PG) ICT 1 2)400/220kV, 315MVA Hissar (PG) ICT 2 3)400/220kV, 315MVA Hissar (PG) ICT 3 4)220kV Hisar(PG)-Hisar-IA(HVPL) ckt 2 5)220kV Hisar(PG)-Isharwal(HVPL) ckt 1	POWERGRID/H VPNL	06-06-2016	17:15	06-06-2016	17:17	00:02	Multiple elements tripped at 400/220kV Hissar (PG) due to malfunctioning of relay during testing of Bus coupler.	Nil	-	GD-I
	NR	1)765kV Fatehpur-Pusauli ckt 1 2)765kV Fatehpur-Varanasi ckt 1 3)400kV Fatehpur-Mainpuri ckt 1 4)400kV Allahabad-Fatehpur ckt 2	POWERGRID	07-06-2016	16:35	07-06-2016	17:38	01:03	Multiple elements tripped at 765/400kV Fatehpur (PG).Phase to earth fault reported.	Nil	Nil	GI-II
	NR	1)400/220kV Sarnath 315 MVA ICT 1 2)400/220kV Sarnath 315 MVA ICT 2 3)400/220kV Sarnath 315 MVA ICT 3	UP	07-06-2016	22:01	07-06-2016	22:07	00:06	Multiple elements tripped at 400/220kV Sarnath (UP). Inclement weather is observed.	Nil	250	GD-I
	NER	132 kv Khliehriat (PG) - Khliehriat (ME) I&II lines,132 kv Mustem-Khliehriat,132 kv NEIGRIHMS - Khliehriat (ME) and Leshka U I,II & III	MePTCL/ POWERGRID & MePGCL	09-06-2016	00:45	09-06-2016	01:05	00:20	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 Nangalibira-Nongstoin line,132 kv Sarusajai-Umtru I&II lines and 132 kv Kahlipara-Umtru I&II lines kept open for system requirement). At 00:45 Hrs on 09.06.16 ,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.	126	12	GD-I
	NR	1)220kV Samaypur-Palwal ckt I & II 2)220kV Samaypur-Ballabgarh ckt. I, II &III 3)220kV Samaypur-Faridabad ckt I & II 4)220kV Samaypur-Palli ckt I & II 5)220kV Samaypur-Badshahpur ckt I & II 6)220kV Samaypur-Dadri 7)220kV BTPS-Ballabgarh Ckt. I&II 8)220kV BTPS-Alwar Ckt 9)220kV Dadri-Ballabgarh 10)315MVA 400/220kV ICT #1 at Ballabgahr(PG) 11)315MVA 400/220kV ICT #2 at Ballabgahr(PG) 12)315MVA 400/220kV ICT #3 at Ballabgahr(PG) 13)315MVA 400/220kV ICT #4 at Ballabgahr(PG) 14)Unit #4 at BTPS 15)Unit #5 at BTPS 16)Unit #1 & its STG at Pragati	BBMB, Haryana, Delhi, UP	09-06-2016	14:27	09-06-2016	15:29	01:02	Multiple Element Tripping at 220kV Samaypur(BBMB), Badarpur TPS, Faridabad Gas and load loss in Delhi, Haryana and Uttar Pradesh.	640	3800 (Load loss on account of SPS operation and stalling of motors and actual load loss)	GD-I
	ER	Siliguri 220/132 kv	Powergrid	11-06-2016	01:39	11-06-2016	04:00	02:21	At 01:39 hrs, due to rain and high wind, piece of nearby tree branch fell on 132 kv main bus of 220/132 kv Siliguri (POWERGRID) S/S resulting tripping of all 132 kv feeders. 132 kv Siliguri – Kurseong and 132 kv Siliguri - NBU tripped from Siliguri end on Z-IV protection. 132 kv Siliguri – Mellli and 132 kv Siliguri – Siliguri (WB) tripped from remote end. 220 kv ICT I & II tripped on DEF and O/C protection respectively.			GI-I
	NER	132 kv Dimapur (PG) - Kohima	POWERGRID & DoP Nagaland	11-06-2016	11:40	11-06-2016	11:55	00:15	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 11:40 Hrs on 11.06.16,132 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.	16	16	GD-I
	NER	132 kv Balipara - Khupi	NEEPCO	11-06-2016	11:49	11-06-2016	16:12	04:23	Khupi area of Arunachal Pradesh was connected with rest of NER Grid through 132 kv Balipara-Khupi line. At 11:49 Hrs on 11.06.16 , 132 kv Balipara- Khupi line tripped. Due to tripping of this element, Khupi area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	22	GD-I
	ER	Mendasal, Nayagarh	OPTCL	11-06-2016	16:30	11-06-2016	16:44	00:14	At 16:30 hrs, during inclement weather condition 220 kv Mendasal – Nayagarh tripped from both end on R-N fault. After sometime, 220 kv Nayagarh Bhanjanagar tripped from Bhanjanagar end on R-N fault.At the same time, 400 kv Mendasal – Baripada tripped from Mendasal end. After the tripping of 400 kv Mendasal – Baripada, load at Mendasal was being fed through 220 kv Bhanjanagar – Mendasal and the said line got overloaded.		490	GD-I
	ER	Indravati (POWERGRID & OPTCL)	Powergrid, OPTCL	11-06-2016	19:59	11-06-2016	20:25	00:26	At 19:59 hrs, 220 kv Theruvai – Indravati I, II & III (circuit IV was not in service) and 220 kv Theruvai – Laxmipur II tripped from Theruvai end. At the same time, 400 kv Indravati (PG) – Indravati and 400 kv Jeypore - Indravati (PG) tripped on Z-III protection from Indravati (PG) end and Jeypore end respectively.		400	GD-I
	NR	1)765kV Fatehpur-Varanasi 1 2)765kV Gaya-Varanasi 2	POWERGRID	11-06-2016	23:49	12-06-2016	00:06	00:17	Multiple elements tripped at 765kV Varanasi (PG) due to tripping of bus-II at Varanasi.	Nil	Nil	GI-II
	NER	132 kv Khliehriat (PG) - Khliehriat (ME) I&II lines & Leshka U 1,2&3	MePTCL/ POWERGRID & MePGCL	12-06-2016	12:20	12-06-2016	12:22	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 Khliehriat-Lumnsong line ,132 kv Umiam-Umiam Stg I line & 132 kv NEHU-Mawlai line were kept open for system requirement). At 12:20 Hrs on 12.06.16 ,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.	126	59	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					
	NER	132 kV NEIGRIHMS - Khliehriat (ME) line,132 kV Mustem-Khliehriat line and 132 kV EPIP II - Byrnihat I&II lines and Umiam Stg I U 2&3, Umiam Stg II U 1 & Umiam Stg IV U 2	MePTCL & MePGCL	12-06-2016	14:19	12-06-2016	14:24	00:05	Meghalaya system except Khliehriat area,Lumnsong area and Mendipathar area was connected with rest of NER Grid through 132 kV NEIGRIHMS - Khliehriat (ME) line,132 kV Mustem-Khliehriat line and 132 kV EPIP II - Byrnihat I&II lines (132 kV Khliehriat-Lumnsong line,132 kV Nangalbibra-Nongstoin line,132 kV Sarusajai-Umtru I&II lines and 132 kV Kahilipara-Umtru I&II lines kept open for system requirement). At 14:19 Hrs on 12.06.16 ,132 kV NEIGRIHMS - Khliehriat (ME) line,132 kV Mustem-Khliehriat line and 132 kV EPIP II - Byrnihat I&II lines tripped. Due to tripping of these elements, Meghalaya system except Khliehriat area,Lumnsong area and Mendipathar area was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.	57	112	GD-I
	NR	1)400kV Azamgarh-Mau(UP) 2)400kV Anpara-Mau (UP) 3)400kV Balia(PG)-Mau(UP) 1 4)400kV Balia(PG)-Mau(UP) 2 5)500kV HVDC Balia-Bhiwadi pole 1	POWERGRID/UP	12-06-2016	13:48	12-06-2016	16:16	02:28	Multiple elements tripped at 400kV Mau (UP). Heavy windstorm in Eastern UP was reported.	Nil	500	GD-I
	NR	1)400kV Allahabad(PG)-Singrauli(NTPC) 1 2)400kV Anpara(UP)-Singrauli(NTPC)	POWERGRID/UP/NTPC	12-06-2016	20:42	12-06-2016	21:16	00:34	Multiple elements tripped at 400kV Singrauli (NTPC). Heavy windstorm in Eastern UP was reported.	Nil	Nil	GI-II
	NR	1)400kV Aligarh-Panki 2)400kV Aligarh-Muradnagar ckt 1	UP	13-06-2016	21:29	13-06-2016	22:28	00:59	Multiple elements tripped at 400kV Aligarh (UP).Phase to earth fault reported.	Nil	Nil	GI-II
	NR	1)400kV Bawana (DTL)-Mundka(DTL) ckt 1 2)400kV Bawana (DTL)-Mundka(DTL) ckt 2	Delhi	13-06-2016	19:17	13-06-2016	20:19	01:02	Jumper of line-1 opened at Mundka end and 400kV Bawana (DTL)-Mundka(DTL) D/C tripped.	Nil	Nil	GI-II
	NR	1)400kV G.Noida(UP)-Nawada(HVNL) 2)400/220kV G.Noida 315 MVA ICT 1 3)400/220kV G.Noida 315 MVA ICT 2 4)400/220kV G.Noida 315 MVA ICT 3 5)400/220kV G.Noida 315 MVA ICT 4	HVNL/UP	13-06-2016	19:23	13-06-2016	20:14	00:51	Multiple elements tripped at 400kV G.Noida (UP). Busbar protection operated at G.Noida.	Nil	750	GD-I
	WR	Tripping of 1. 220kV Bus-I at Panandhro 2. 220kV Panandhro-Nakhatrana-I 3. 220kV Panandhro-Akrimota-II 4. 220kV Panandhro-Akrimota-I 5. 220kV Panandhro-Kukuma-I 6. 220/66kV transformer due to busbar protection operation at 220 kV Panandhro	GSECL	14-06-2016	18:14	14-06-2016	19:00	00:46	R-ph conductor of 220kV Panandhro-Kukuma-I snapped and fallen Bus-I. The feeders connected on Bus-I , units 1&2 at KLTPS,Pandhro and Panandhro-Akrimota-II tripped at Akrimota end on under voltage.	140	20	GI-I
	NR	1)400kV G.Noida(UP)-Nawada(HVNL) 2)400kV Ballabgarh(PG)-Nawada(HVNL)	UP/Haryana	15-06-2016	10:47	15-06-2016	11:27	00:40	400kV G.Noida(UP)-Nawada(HVNL) and 400kV Ballabgarh(PG)-Nawada(HVNL) tripped due to fire at Y phase tie isolator clamp.This caused complete blackout at Nawada and G.Noida.	Nil	650	GD-I
	NR	1)400kV Uri-II(NHPC)-Wagoora(PG) 2)400kV Uri-11(NHPC)-Uri-I line already tripped at 13:25hrs 3)Uri-II unit #1 4)Uri-II unit #2 5)Uri-II unit #3 6)Uri-II unit #4	POWERGRID/NHPC/J&K	15-06-2016	16:03	15-06-2016	16:31	00:28	400kV Uri-II(NHPC)-Wagoora(PG) tripped due to R phase to earth fault. 400kV Uri-11(NHPC)-Uri-I line already tripped at 13:25hrs.Hence all units of Uri-II unit#1, #2, #3 and #4 tripped due to outage of both lines(overspeed protection operate,	240	-	GD-I
	NER	132 kV Doyang- Dimapur II line & 132 kV Doyang-Mokokchung(NA) line and Doyang U 1,2&3	NEEPCO & DoP,Nagaland	15-06-2016	18:20	15-06-2016	18:25	00:05	Doyang Power Station was connected with rest of NER Grid through 132 kV Doyang- Dimapur II line & 132 kV Doyang-Mokokchung(NA) line (132 kV Doyang- Dimapur I line was under emergency shutdown from 20:32 Hrs on 14.06.16). At 18:20 Hrs on 15.06.16 , 132 kV Doyang- Dimapur II line & 132 kV Doyang-Mokokchung(NA) line tripped. Due to evacuation problem, Doyang Power Station was blacked out.	51	0	GD-I
	NER	132 kV Doyang- Dimapur II line and Doyang U 1,2&3	NEEPCO & DoP,Nagaland	15-06-2016	18:56	15-06-2016	18:58	00:02	Doyang Power Station was connected with rest of NER Grid through 132 kV Doyang- Dimapur II line (132 kV Doyang- Dimapur I line was under emergency shutdown from 20:32 Hrs on 14.06.16 & 132 kV Doyang-Mokokchung(NA) line tripped at 18:20 Hrs on 15.06.16 and was not restored). At 18:56 Hr on 15.06.16 , 132 kV Doyang- Dimapur II line tripped. Due to evacuation problem, Doyang Power Station was blacked out.	30	0	GD-I
	NER	132 kV NEIGRIHMS - Khliehriat (ME) line, 132 kV Mustem-NEHU line and 132 kV EPIP II - Byrnihat I&II lines and Umiam Stg IV U 1&2,Umiam Stg I U 2 & 3 and Umiam Stg II U 1	MePTCL & MePGCL	16-06-2016	23:04	16-06-2016	23:06	00:02	Meghalaya system except Khliehriat and Mendipathar area was connected with rest of NER Grid through 132 kV NEHU- Mustem, 132 kV NEIGRIHMS - Khliehriat (ME) line and 132 kV EPIP II - Byrnihat I & II lines (132 kV Khliehriat-Lumnsong line,132 kV Nangalbibra-Nongstoin line, 132 kV Sarusajai-Umtru I & II lines and 132 kV Kahilipara-Umtru I & II lines kept open for system requirement). At 23:04 Hrs on 16.06.16, 132 kV NEIGRIHMS - Khliehriat (ME) line, 132 kV Mustem-NEHU line and 132 kV EPIP II - Byrnihat I&II lines tripped. Due to tripping of these elements, Meghalaya system except Khliehriat and Mendipathar area was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.	84	118	GD-I
	NR	1)765/400kV Bara TPS 1500 MVA ICT-1 2)400kV Bara TPS- Allahabad Rewa Road(400kV) ckt 1 3)400kV Bara TPS- Allahabad Rewa Road(400kV) ckt 2 4)Bara TPS unit generating 380MW 5)Bus reactor at Bara TPS	UP	17-06-2016	06:49	17-06-2016	11:38	04:49	765/400kV Bara TPS 1500 MVA ICT-1, 400kV Bara TPS- Allahabad Rewa Road(400kV) both ckts and bus reactor at Bara tripped. R-ph CT Burst at Bara is reported. Due to outage of evacuation lines generation of Bara TPS tripped.	380	-	GD-I
	SR	HVDC TALCHER - KOLAR LINE 1	Powergrid	17-06-2016	16:35	17-06-2016	17:53	01:18	Talcher-Kolar HVDC Pole-1 got tripped on line fault and Pole-2 went to ground return mode with 150MW			37 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					
	WR	Tripping of 1. 400 kV Chorania Main bus-I 2. 400/220 ICT-III at Chorania 3. 400/220 ICT-I at Chorania 4. 400kV Chorania-Ranchhorpura-1 5. 400kV Chorania-CGPL-1 6. 400kv Chorania-Kosamba-1 7. 400kv Chorania-Amreli 8. 400kv Bus Coupler due to bus Bar protection operated on Main Bus-I at 400kV Chorania (GETCO) S/S due to blast of B phase CB of 400KV Chorania-Asoj- ckt-1 at Chorania	GETCO	17-06-2016	17:56	17-06-2016	18:45	00:49	Bus Bar protection operated on Main Bus-I at 400kV Chorania (GETCO) S/S due to blast of B phase CB of 400KV Chorania-Asoj- ckt-1 at Chorania causing tripping of all elements from Bus 1 along with bus coupler.	Nil	Nil	GI-II
	SR	HVDC GAZUWAKA POLE-1	Powergrid	19-06-2016	05:20	19-06-2016	21:06	15:46	Pole-1 tripped due to operation of south filter inter zone filter protection which was due to failure of south side B-phase CT (CWD-30).			GI-II
	SR	HVDC GAZUWAKA POLE-2	Powergrid	19-06-2016	05:20	19-06-2016	06:45	01:25	Hvdc Pole-2 got tripped on operation of Bus differential protection			GI-II
	SR	Complete outage of 220kV Sedam Substation of KPTCL.	KPTCL	19-06-2016	15:27	19-06-2016	16:30	01:03	220kV Sedam-Hummabad-2 tripped at Sedam on Distance protection, Zone-2. Sedam-RTPS-1 & 2 lines tripped at RTPS end only. 220kV Tandoor inter state line was hand tripped due to incoming supply failure		123	GD-I
	NER	132 kV Balipara - Khupi	NEEPCO	20-06-2016	00:37	21-06-2016	17:07	16:30	Khupi area of Arunachal Pradesh was connected with rest of NER Grid through 132 kV Balipara-Khupi line. At 00:37 Hrs on 20.06.16, 132 kV Balipara- Khupi line tripped. Due to tripping of this element, Khupi area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	22	GD-I
	NR	1)765kV Agra-Fatehpur ckt 2 2)400kV Agra(PG)-Auraiya(NTPC) ckt 2	POWERGRID	20-06-2016	15:59	20-06-2016	16:24	00:25	Multiple elements tripped at 765/400kV Agra (PG). Phase to earth fault is reported.	Nil	Nil	GI-II
	WR	Tripping of 1. JP Nigrie-Satna-I on Protection Mal -opretai on due to wrong setting 2. JP Nigrie-Satna-II on Fault 3. Unit 1 And Unit 2 leading to blackout at JP Nigrie	JP Nigrie	22-06-2016	13:18	22-06-2016	13:20	00:02	R phase to earth fault occurred on 400 kV JP Nigrie-Satna 2 circuit and it's a/R was unsuccessful. However at the same time other circuit tripped from JP Nigrie on Protection operation due to wrong setting causing islanding and blackout of JP Nigrie station.	1200	Nil	GD-I
	SR	HVDC TALCHER - KOLAR POLE 2	Powergrid	23-06-2016	05:28	23-06-2016	14:26	08:58	BLOCKED ON Y PHASE PRD OPERATION			GI-II
	NR	1)400kV Lucknow-Rosa 2)400kV Bareilly-Rosa 3)300MW Rosa unit #2 4)300MW Rosa unit #4	POWERGRID/U P	23-06-2016	18:22	23-06-2016	19:17	00:55	Multiple elements tripped at 400/220kV Rosa(UP) due to station supply failure.	370	Nil	GD-I
	NR	1)400kV Anpara-Sarnath ckt 1 2)400kV Anpara-Sarnath ckt 2 3)400kV Sarnath-Azamgarh 4)400kV Sarnath-Sasaram 5)400kV Sarnath-Varanasi	POWERGRID/U P	23-06-2016	15:36	23-06-2016	16:16	00:40	Phase to earth fault in 400kV Anpara-Sarnath could not be cleared at Sarnath end hence all 400kV elements tripped from other end.This caused complete outage of 400/220 Sarnath(UP).	Nil	750	GD-I
	ER	Biharsharif, Begusarai, Fatuah	BSPTCL, Powergrid	24-06-2016	00:15	24-06-2016	00:44	00:29	At 00:15 hrs, 315 MVA ICT-III at Biharsharif tripped from 220KV side (BSPTCL side) due to fault in 220KV Biharsharif-Begusarai ckt-II (B-N fault) and subsequently 315MVA ICT-I & II tripped due to over current protection, causing power failure at Biharsharif		700	GD-I
	NR	1)400/220kV 500 MVA Patiala ICT #1 2)400/220kV 500 MVA Patiala ICT #2 3)400/220kV 500 MVA Patiala ICT #3	POWERGRID	24-06-2016	02:15	24-06-2016	02:55	00:40	400/220kV 500 MVA Patiala ICT #3 tripped due to high winding temperature 400/220kV 315MVA Patiala ICT #1 & #2 tripped on overloading after tripping of ICT#3.	Nil	1000	GD-I
	SR	Complete outage of 220kV AMEWADI Station of KPTCL.	KPTCL	24-06-2016	20:57	24-06-2016	21:36	00:39	B phase to earth fault had occurred in 220kV Ambewadi-Ponda line-2. Fault was cleared by tripping of feeders from remote end. Fault was fed for 5 sec as observed from PMU data.		70	GD-I
	WR	Tripping of 1. 400KV Pirana(PG)-Dehgam-1 2. 400KV Pirana(PG)-Dehgam-2 3. 400KV Pirana-Vadodara- 1 4. 400KV Pirana-Vadodara- 2 5. 400KV Pirana - Pirana-2 on delayed fault clearance .	PGCIL/ GETCO/ Torrent	25-06-2016	19:45	25-06-2016	20:47	01:02	During lightening at Pirana PG sub-station, fault occurred on one of the circuit which was not cleared by main protection causing other circuit to trip on Zone 4 protection operation. During this delayed fault clearance the df/dt based load shedding operated in Maharashtra system.	Nil	470	GI-II
	ER	Biharsharif, Begusarai, Fatuah, Gaya, Bodhgaya	BSPTCL, Powergrid	26-06-2016	07:28	26-06-2016	08:01	00:33	At 07:28 hrs, 315 MVA ICT-I,II,III at Biharsharif tripped on back up overcurrent due to fault in 220 kv Biharsarif- Bodhgaya-II(R-N fault-Jumper of wave trap snapped at Biharsharif end).Tripping of said ICT'S caused power failure at Biharsarif,Begusarai,Fatua,Gaya and Bodhgaya		657	GD-I
	NER	132 kV Dhaligaon-BTPS I & II lines	AEGCL	26-06-2016	12:46	26-06-2016	13:04	00:18	Dhaligaon area of Assam was connected with rest of NER Grid through 132 kV Dhaligaon-BTPS I & II lines (132 kV Rangia-Bornagar line & 132 kV Rangia-Nalbari line kept open for system requirement). At 12:46 Hr on 26.06.16,132 kV Dhaligaon-BTPS I & II lines tripped. Due to tripping of these elements, Dhaligaon area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	101	GD-I
	NR	1)400kV Ratangarh-Suratgarh 1 2)400kV Merta-Ratangarh 3)400kV Ratangarh-Sikar ckt 1 4)400kV Ratangarh-Sikar ckt 2	POWERGRID/Ra jasthan	26-06-2016	16:09	26-06-2016	17:36	01:27	Multiple elements tripped at 400/220kV Ratangarh(Rajasthan). Over voltage is reported.	Nil	300	38 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					
	NER	132 kv Khliehriat (PG) - Khliehriat (ME) I & II lines,132 kv Khliehriat (ME) - Mustem, 132 kv NEIGRIHMS - Khliehriat (ME) line and 132 kv Umiam St I - Umiam St III I & II lines and Umiam Stg I U 2,3&4, Umiam Stg II U 1&2 and Leshka U 1,2&3	MePTCL/ POWERGRID & MePGCL	26-06-2016	16:52	26-06-2016	16:58	00:06	Meghalaya system except Lumnsnong load, EPIP I&II loads and Mendipathar area was connected with rest of NER Grid through 132 kv Khliehriat (PG) - Khliehriat (ME) I & II lines,132 kv Khliehriat (ME) - Mustem, 132 kv NEIGRIHMS - Khliehriat (ME) line and 132 kv Umiam St I - Umiam St III I & II lines (132 kv Khliehriat-Lumnsnong line & 132 kv Nangalbibra-Nongstoin lines kept open for system requirement). At 16:52 Hrs on 26.06.16,132 kv Khliehriat (PG) - Khliehriat (ME) I & II lines,132 kv Khliehriat (ME) - Mustem, 132 kv NEIGRIHMS - Khliehriat (ME) line and 132 kv Umiam St I - Umiam St III I & II lines tripped. Due to tripping of these elements, Meghalaya system except Lumnsnong load, EPIP I&II loads and Mendipathar area was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.	145	113	GD-I
	NER	132 kv Jiribam - Aizwal line, 132 kv Aizwal - Kolasib line and 132 kv Aizwal - Kumarghat line	POWERGRID	27-06-2016	15:36	27-06-2016	16:08	00:32	Mizoram system was connected with rest of NER Grid through 132 kv Jiribam - Aizwal line, 132 kv Aizwal - Kolasib line and 132 kv Aizwal - Kumarghat line. At 15:36 Hrs on 27.06.16, 132 kv Jiribam - Aizwal line, 132 kv Aizwal - Kolasib line and 132 kv Aizwal - Kumarghat line tripped. Due to tripping of these elements, Mizoram system was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	58	GD-I
	NER	132 kv Imphal (PG) - Imphal (MA) I&II lines	POWERGRID,M SPCL	28-06-2016	10:44	28-06-2016	11:10	00:26	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 10:44 Hrs on 28.06.16, 132 kv Imphal-Imphal I & II lines tripped. Due to tripping of these elements, Capital area & Karong area were separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	47	GD-I
	NR	1)765/400kV Unnao C 1000 MVA ICT 1 2) 765/400kV Unnao C 1000 MVA ICT 2	UP	28-06-2016	12:27	28-06-2016	13:21	00:54	765/400kV Unnao C 1000 MVA ICT 1 and 2 tripped during station transformer load change over.	Nil	Nil	GI-II
	NR	1)400/220kV, 315MVA Mundka ICT 3 2)400/220kV, 315MVA Mundka ICT 4	Delhi	28-06-2016	21:57	28-06-2016	22:37	00:40	Multiple elements tripped at 400/220kV Mundka(DTL) on overcurrent.	Nil	200	GD-I
	WR	Tripping of 1. 400 kV Bus-2 at Kansari 2. 400 kV Kansari-Kankroli 3. 400kV Kansari-Ranchorpura 2 4. 400kV Soja-Kansari 5. 400kV Kansari-Varsana 6. 400/220 kV Kansari ICT-1 and 2 7. 400/220kV KANSARI ICT-1 due to LBB misoperation of 400 kv Kansari-Kankroli at 400 kv Kansari(GETCO) S/S	GETCO	29-06-2016	05:40	29-06-2016	06:18	00:38	400 kV Bus 2 and connected elements at Kankroli S/s tripped due LBB misoperation of 400 kv Kansari-Kankroli at 400 kv Kansari(GETCO) S/S	Nil	Nil	GI-II
	NER	132 kv Balipara- Khupi line	NEEPCO	29-06-2016	15:55	29-06-2016	16:36	00:41	Khupi area of Arunachal Pradesh was connected with rest of NER Grid through 132 kv Balipara-Khupi line. At 15:55 Hrs on 29.06.16 , 132 kv Balipara- Khupi line tripped. Due to tripping of this element, Khupi area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	21	GD-I
	NER	132 kv Balipara- Khupi line	NEEPCO	29-06-2016	17:38	29-06-2016	18:11	00:33	Khupi area of Arunachal Pradesh was connected with rest of NER Grid through 132 kv Balipara-Khupi line. At 17:38 Hrs on 29.06.16 , 132 kv Balipara- Khupi line tripped. Due to tripping of this element, Khupi area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	15	GD-I
	NER	132 kv Dimapur (PG) - Kohima	POWERGRID & DoP Nagaland	29-06-2016	18:40	29-06-2016	18:53	00:13	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 18:40 Hrs on 29.06.16, 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.	0	22	GD-I
	WR	Tripping of 1. 400kV Kansari-Ranchorpura 2 2. 400 kV Kansari-Varsana 3. 400 kV Kansari-Bhinmal 4. 400 kV APL-Kansari 5. 400/220 kV ICT-I,II&III at Kansari due to flashover on 220/66 kv Y phase Bushing at Kansari S/s	GETCO	30-06-2016	01:36	30-06-2016	04:27	02:51	Due to Y Phase 220 kv side bushing(OFF 220/66 kv ,100 MVA TR no.3) failure and burnt out of various control cables, RTCC panel of TR 3 completely damaged along with its both DC sources. This caused DC leakages in 400 kv system also causing tripping of lines .	Nil	Nil	GI-II
	NER	132 kv Imphal (PG) - Imphal (MA) I&II lines	POWERGRID,M SPCL	30-06-2016	04:11	30-06-2016	04:24	00:13	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 04:11 Hrs on 30.06.16, 132 kv Imphal-Imphal I & II lines tripped. Due to tripping of these elements, Capital area & Karong area were separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	35	GD-I

18. NEW ELEMENTS COMMISSIONED IN JUNE-2016								
COMMISSIONING OF NEW GENERATING UNITS								
REGION	SL. NO.	CONSTITUENT	UNIT NAME	UNIT NO	CAPACITY (MW)	DATE	TIME	
COMMISSIONING OF NEW ICTs								
REGION	SL. NO.	CONSTITUENT	VOLTAGE LEVEL	SUB-STATION	ICT NO	CAPACITY	DATE	TIME
NR	1	POWERGRID	765/400	Kanpur GIS	I	1500	28.06.16	
	2		765/400	Kanpur GIS	II	1500	28.06.16	
	3		400/220	Baghpat	II	500	30.06.16	
	4		400/220	Jalandhar	III	500	30.06.16	
COMMISSIONING OF NEW TRANSMISSION LINES								
REGION	SL. NO.	CONSTITUENT	LINE NAME	CKT NO	kV	DATE	TIME (Hrs)	
WR	1	BALCO	BALCO-Dharamjaigarh	I	400	16.06.16		
	2		BALCO-Dharamjaigarh	II	400	14.06.16		
	3	MAHATRANSCO	Ektuni-Tapthithanda	I	400	08.06.16		
SR	4	APTRANSCO	Jammalamadugu - Uravakonda	D/C	400	29.06.16		
	5		Jammalamadugu - Narnoor	D/C	400	29.06.16		
ER	6	POWERGRID	Kharagpur-Chaibasa	I	400	17.06.16		
	7		Ranchi-Chandwa	I	400	28.06.16		

विद्युत विभव रूपरेखा माह - जून 2016

VOLTAGE PROFILE - JUNE 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%	991	749	772
2		गया GAYA	0%	100%	0%	0%	793	730	760
3		झारसुगुडा JHARSUGUDA	0%	100%	0%	0%	797	767	782
4		रांची RANCHI	0%	100%	0%	0%	797	764	782
5		सासाराम SASARAM	1%	99%	0%	1%	799	718	758
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	801	731	765
2		अनपरा सी ANPARA-C	0%	100%	0%	0%	787	744	762
3		बलिया BALLIA	0%	100%	0%	0%	797	730	761
4		भिवानी BHIWANI	0%	96%	4%	4%	806	744	772
5		बरेली BAREILLY	0%	100%	0%	0%	760	719	757
6		फतेहपुर FATEHPUR	0%	100%	0%	0%	797	718	760
7		झटिकरा JHATIKARA	0%	100%	0%	0%	797	735	765
8		लखनऊ LUCKNOW	0%	100%	0%	0%	760	744	766
9		मेरठ MEERUT	0%	98%	2%	2%	815	740	777
10		मोगा MOGA	0%	100%	0%	0%	794	745	768
11		फागी PHAGI	0%	100%	0%	0%	797	736	763
12		उन्नाव UNNAO	1%	99%	0%	1%	786	706	751
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	787	745	769
2		औरंगाबाद AURANGABAD	0%	98%	2%	2%	806	747	782
3		भोपाल (बीडीटीसीएल) BHOPAL (BDTCL)	0%	100%	0%	0%	800	739	763
4		बिलासपुर BILASPUR	0%	100%	0%	0%	776	752	765
5		बीना BINA	0%	100%	0%	0%	794	747	769
6		चापा CHAMPA	0%	98%	2%	2%	808	773	789
7		धर्मजयगढ़ DHARAMJAIGARH	0%	100%	0%	0%	786	754	771
8		धुले (बीडीटीसीएल) DHULE (BDTCL)	0%	100%	0%	0%	801	742	777
9		ग्वालियर GWALIOR	0%	100%	0%	0%	802	741	770
10		इंदौर INDORE	0%	100%	0%	0%	797	738	765
11		जबलपुर JABALPUR	0%	100%	0%	0%	793	749	772
12		कोरडी KORADI	0%	100%	0%	0%	778	739	759
13		पुणे PUNE	0%	100%	0%	0%	800	730	780
14		रायगढ़ पुलिंग RAIGARH POOLING	0%	100%	0%	0%	800	774	787
15		रायपुर पुलिंग RAIPUR POOLING	0%	100%	0%	0%	795	761	779
16		सासन SASAN	0%	100%	0%	0%	778	753	765
17		सतना SATNA	0%	100%	0%	0%	788	747	767
18		सिवनी SEONI	0%	100%	0%	0%	794	752	775
19		सीपत SIPAT	0%	100%	0%	0%	774	753	763
20		सोलापुर SOLAPUR	0%	71%	29%	29%	818	759	794
21		तामनार TAMNAR	0%	100%	0%	0%	799	775	787
22		वडोदरा VADODARA	0%	100%	0%	0%	799	743	771
23		विंध्याचल पुलिंग VINDHYACHAL PS	0%	100%	0%	0%	781	757	768
24		वर्धा WARDHA	0%	99%	1%	1%	807	712	783
1	दक्षिणी क्षेत्र SR	कर्नूल KURNOOL	0%	84%	16%	16%	816	762	792
2		नेल्लूर पुलिंग NELLORE PS	0%	98%	2%	2%	810	766	786
3		रायचूर RAICHUR	0%	76%	24%	24%	816	759	793
4		तिरुवलम THIRUVALEM	0%	62%	38%	38%	823	767	797
1	पूर्वोत्तर क्षेत्र NER	अज़ारा AZARA (400 kV)	0%	100%	0%	0%	413	402	407
2		बालिपारा BALIPARA (400 kV)	0%	99%	1%	1%	426	384	408
3		बोंगाईगाव BONGAIGAON (400 kV)	0%	100%	0%	0%	422	393	408
4		मीसा MISA (400 kV)	0%	97%	3%	3%	427	390	410
5		सिलचर SILCHAR (400 kV)	0%	100%	0%	0%	419	399	410

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

20. List of Tripping of Elements monitored by NLDC for the month of June 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	01-06-2016 16:02	Auxiliary supply failure	01-06-2016 20:27	4:25:00	1
2	Pusauli	HVDC	ER/NR	TS	10-06-2016 13:18	Valve Cooling Problem	10-06-2016 13:34	0:16:00	2
3	Pusauli	HVDC	ER/NR	TS	14-06-2016 06:12	Cooling Valve mal-operation	14-06-2016 08:09	1:57:00	3
4	Pusauli	HVDC	ER/NR	TS	18-06-2016 16:58	Bird Hit at Capacitor bank	18-06-2016 19:17	2:19:00	4
5	Pusauli	HVDC	ER/NR	TS	28-06-2016 15:51	System fail alarm due to bird strike at capacitor bank	28-06-2016 16:44	0:53:00	5
6	Pusauli	HVDC	ER/NR	SO	30-06-2016 12:39	Taken in AC bypass	01-07-2016 00:00	11:21:00	5
7	Vindhyachal Pole-I	HVDC	WR/NR	SO	01-06-2016 00:00	DC over current protection operated	01-07-2016 00:00	720:00:00	0
8	Vindhyachal Pole-II	HVDC	WR/NR	TS	14-06-2016 10:35	Raw water strainer choke	14-06-2016 13:47	3:12:00	1
9	Mundra-Mahendragarh Pole-II	HVDC	WR/NR	TS	15-06-2016 13:25	Control System Problem at Mohindergarh	15-06-2016 13:57	0:32:00	1
10	Vindhyachal Pole-II	HVDC	WR/NR	SE	27-06-2016 15:20	heavy oil leakage from Bucholtz relay of Converter transformer	27-06-2016 17:53	2:33:00	1
11	Mundra-Mahendragarh-Pole-I	HVDC	WR/NR	TL	29-06-2016 17:38	Distance Protection Operated	29-06-2016 18:38	1:00:00	1
12	Gazuwaka Pole-II	HVDC	ER/SR	ME	03-06-2016 06:34	Due to outage of lines	03-06-2016 21:01	14:27:00	0
13	Gazuwaka Pole-I	HVDC	ER/SR	ME	03-06-2016 06:41	Due to outage of lines	03-06-2016 20:50	14:09:00	0
14	Gazuwaka Pole-II	HVDC	ER/SR	ME	04-06-2016 06:06	Due to outage of lines	04-06-2016 20:40	14:34:00	0
15	Gazuwaka Pole-I	HVDC	ER/SR	ME	04-06-2016 06:37	Due to outage of lines	04-06-2016 20:28	13:51:00	0
16	Talcher-Kolar Pole-I	HVDC	ER/SR	TL	17-06-2016 16:35	DC Line Fault	17-06-2016 17:53	1:18:00	1
17	Gazuwaka Pole-II	HVDC	ER/SR	TS	19-06-2016 05:20	BUS DIFFERENTIAL PROTECTION OPERATED	19-06-2016 06:45	1:25:00	1
18	Gazuwaka Pole-I	HVDC	ER/SR	TS	19-06-2016 05:20	POLE-1 B-PH CT FLASHOVER	19-06-2016 20:22	15:02:00	1
19	Talcher-Kolar Pole-II	HVDC	ER/SR	TP	23-06-2016 05:28	BLOCKED ON Y PHASE PRD OPERATION	23-06-2016 14:27	8:59:00	1
20	Gazuwaka Pole-I	HVDC	ER/SR	SO	28-06-2016 12:12	FOR TAKING CWD30 TIE BAY INTO SERVICE	28-06-2016 15:01	2:49:00	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	Talcher-Kolar Pole-II	HVDC	ER/SR	TL	17-06-2016 16:35	DC Line Fault	17-06-2016 17:53	1:18:00	2
22	Bhadrawati Pole-I	HVDC	WR/SR	TS	05-06-2016 05:56	VALVE COOLING PROBLEM	05-06-2016 13:04	7:08:00	1
23	Biswanath Chariali-Agra Pole-I	HVDC	NER/NR	SC	01-06-2016 10:53	Commissioning activities of Pole 2	01-06-2016 23:10	12:17:00	0
24	Biswanath Chariali-Agra Pole-I	HVDC	NER/NR	SC	02-06-2016 10:43	For test charging of Pole 2	01-07-2016 00:00	685:17:00	0
HVDC - Internal									
25	Balia-Bhiwadi Pole-I	HVDC	NR	TL	12-06-2016 13:48	Distance Protection Operated	12-06-2016 14:40	0:52:00	1
26	Rihand-Dadri Pole-II	HVDC	NR	TS	15-06-2016 08:33	Thyristor failure alarm in Pole 2 valve HALL	15-06-2016 14:32	5:59:00	1
27	Rihand-Dadri Pole-I	HVDC	NR	TS	24-06-2016 10:56	Control valve pressure low at Rihand	24-06-2016 13:31	2:35:00	1
28	Bheramara HVDC	HVDC	Bangladesh	TS	15-06-2016 14:24	Cooling problem	15-06-2016 17:10	2:46:00	1
29	Bheramara HVDC	HVDC	Bangladesh	SE	23-06-2016 14:31	To drive out the bird from the valve hall	23-06-2016 16:14	1:43:00	1
765 kV - IR									
30	765 kV Sasaram-Fatehpur	Line	ER/NR	SE	07-06-2016 16:35	Hand tripped due to sparking at Fatehpur	07-06-2016 22:18	5:43:00	0
31	765 kV Gaya-Varanasi-II	Line	ER/NR	SO	25-06-2016 12:11	To attend leakage from main bay isolator	25-06-2016 19:40	7:29:00	0
32	765 kV Gaya-Varanasi-I	Line	ER/NR	TS	11-06-2016 23:49	Due to tripping of Bus II at Banaras	12-06-2016 01:35	1:46:00	1
33	765 kV Gaya-Varanasi-I	Line	ER/NR	TP	24-06-2016 21:59	Relay maloperation	24-06-2016 23:37	1:38:00	2
34	765 kV Gaya-Balia	Line	ER/NR	SO	06-06-2016 08:05	For replacement of insulators damaged by miscreant	06-06-2016 20:14	12:09:00	0
35	765 kV New Ranchi-Dharamjaygarh-II	Line	ER/WR	SO	13-06-2016 09:19	NGR bypassing works, OEM engineer and machinery is mobilized at site	14-06-2016 20:55	35:36:00	0
36	765 kV Gwalior-Phagi-II	Line	WR/NR	TL	09-06-2016 18:42	Distance Protection Operated	09-06-2016 19:33	0:51:00	1
37	765 kV Solapur-Raichur-II	Line	WR/SR	TL	03-06-2016 16:08	Distance Protection Operated	03-06-2016 19:05	2:57:00	1
38	765 kV Solapur-Raichur-II	Line	WR/SR	TL	04-06-2016 22:28	Distance Protection Operated	04-06-2016 23:03	0:35:00	2
39	765 kV Solapur-Raichur-II	Line	WR/SR	SO	10-06-2016 10:58	Hotspot	10-06-2016 19:19	8:21:00	2
765 kV Internal									

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
40	765kV Varanasi-Fatehpur-I	Line	NR	SE	07-06-2016 16:35	Hand tripped due to sparking at Fatehpur	07-06-2016 22:46	6:11:00	0
41	765kV Varanasi-Fatehpur-I	Line	NR	TS	11-06-2016 23:49	Due to tripping of Bus II at Banaras	12-06-2016 00:05	0:16:00	1
42	765kV Varanasi-Fatehpur-I	Line	NR	SO	16-06-2016 13:58	Due to induction observed during stringing	16-06-2016 20:58	7:00:00	1
43	765kV Varanasi-Fatehpur-I	Line	NR	SE	20-06-2016 09:13	Abnormal humming sound	20-06-2016 18:51	9:38:00	1
44	765kV Phagi-Bhiwani-I	Line	NR	SO	01-06-2016 00:00	Tower collapsed	14-06-2016 22:18	334:18:00	0
45	765kV Moga-Bhiwani(PG)	Line	NR	SE	01-06-2016 11:27	For connecting the conductor of quad dropper	01-06-2016 12:22	0:55:00	0
46	765kV Meerut-Bhiwani(PG)	Line	NR	TL	10-06-2016 15:35	Distance Protection Operated	10-06-2016 15:53	0:18:00	1
47	765kV Meerut-Bhiwani(PG)	Line	NR	TL	15-06-2016 17:36	Distance Protection Operated	15-06-2016 17:54	0:18:00	2
48	765kV Meerut-Bhiwani(PG)	Line	NR	TL	17-06-2016 00:46	Distance Protection Operated	17-06-2016 01:14	0:28:00	3
49	765kV Meerut-Bhiwani(PG)	Line	NR	TL	23-06-2016 06:00	Distance Protection Operated	23-06-2016 07:10	1:10:00	4
50	765kV G'Noida-Meerut	Line	NR	TL	13-06-2016 19:57	Distance Protection Operated	17-06-2016 22:24	98:27:00	1
51	765kV G'Noida-Meerut	Line	NR	SO	22-06-2016 07:13	For erection of new normal tower by Powergrid	22-06-2016 20:20	13:07:00	1
52	765kV G'Noida-Meerut	Line	NR	SO	23-06-2016 07:33	For erection of new normal tower by Powergrid	23-06-2016 20:48	13:15:00	1
53	765kV G'Noida-Meerut	Line	NR	SO	24-06-2016 07:13	For erection of new normal tower by Powergrid	24-06-2016 20:30	13:17:00	1
54	765kV G'Noida-Meerut	Line	NR	SO	25-06-2016 06:44	For erection of new normal tower by Powergrid	25-06-2016 20:37	13:53:00	1
55	765kV G'Noida-Meerut	Line	NR	SO	26-06-2016 07:28	For erection of new normal tower by Powergrid	27-06-2016 17:26	33:58:00	1
56	765kV Fatehpur-Agra-II	Line	NR	SE	07-06-2016 17:15	Hand tripped due to sparking at Fatehpur	07-06-2016 20:51	3:36:00	0
57	765kV Fatehpur-Agra-II	Line	NR	SE	14-06-2016 15:00	Hotspot	14-06-2016 15:57	0:57:00	0
58	765kV Fatehpur-Agra-II	Line	NR	TL	15-06-2016 12:53	Distance Protection Operated	15-06-2016 13:12	0:19:00	1
59	765kV Fatehpur-Agra-II	Line	NR	TL	20-06-2016 15:59	Distance Protection Operated	20-06-2016 16:26	0:27:00	2
60	765kV Fatehpur-Agra-II	Line	NR	MO	28-06-2016 05:56	Opened manually due to High Voltage	28-06-2016 11:36	5:40:00	2
61	765kV Fatehpur-Agra-I	Line	NR	SE	07-06-2016 17:02	Hand tripped due to sparking at Fatehpur	07-06-2016 20:34	3:32:00	0

S. No.	Name of Transmission Element	Type of the element	Region Involved	Fault Type	Tripping Date and Time	Brief Reason/Relay Indication	Restoration Date and Time	Duration	Number of Cumulative tripping in the month
62	765kV Fatehpur-Agra-I	Line	NR	SO	11-06-2016 07:14	For replacement of line reactor bushings	11-06-2016 19:51	12:37:00	0
63	765kV Fatehpur-Agra-I	Line	NR	SC	21-06-2016 07:49	UPEIDA project related diversion	21-06-2016 19:00	11:11:00	0
64	765kV Fatehpur-Agra-I	Line	NR	SC	22-06-2016 07:09	UPEIDA project related diversion	25-06-2016 07:47	72:38:00	0
65	765kV Balia-Varanasi	Line	NR	TL	07-06-2016 21:04	Distance Protection Operated	08-06-2016 00:21	3:17:00	1
66	765kV Balia-Lucknow	Line	NR	TL	05-06-2016 14:01	Distance Protection Operated	05-06-2016 14:56	0:55:00	1
67	765kV Balia-Lucknow	Line	NR	SE	13-06-2016 11:45	Lopping of trees	13-06-2016 14:56	3:11:00	1
68	765kV Agra-Jhatikara	Line	NR	TL	06-06-2016 16:32	Distance Protection Operated	06-06-2016 17:12	0:40:00	1
69	765kV Agra-Jhatikara	Line	NR	SO	10-06-2016 14:47	For broken pilot string.	10-06-2016 19:14	4:27:00	1
70	765 kV Moga-Meerut	Line	NR	MO	28-06-2016 04:39	Opened manually due to High Voltage	28-06-2016 11:09	6:30:00	0
71	765kV Angul-Jharsuguda-II	Line	ER	TL	01-06-2016 15:03	Distance Protection Operated	01-06-2016 15:53	0:50:00	1
72	765kV Angul-Jharsuguda-II	Line	ER	SE	18-06-2016 12:28	Hand tripped due to fire in NGR	18-06-2016 15:46	3:18:00	1
73	765kV Angul-Jharsuguda-I	Line	ER	TL	01-06-2016 15:03	Distance Protection Operated	01-06-2016 15:44	0:41:00	1
74	765kV Angul-Jharsuguda-I	Line	ER	TL	11-06-2016 18:14	Distance Protection Operated	11-06-2016 18:32	0:18:00	2
75	765kV Angul-Jharsuguda-I	Line	ER	SE	18-06-2016 12:28	Hand tripped due to fire in NGR	18-06-2016 13:21	0:53:00	2
76	765kV Wardha-Aurangabad-IV	Line	WR	TL	05-06-2016 18:14	Distance Protection Operated	05-06-2016 19:53	1:39:00	1
77	765kV Wardha-Aurangabad-IV	Line	WR	SE	08-06-2016 13:15	LA problem at Aurangabad	08-06-2016 23:27	10:12:00	1
78	765kV Wardha-Aurangabad-IV	Line	WR	TS	22-06-2016 06:03	Y-PH LA FAIL AT WARDHA	25-06-2016 06:35	72:32:00	2
79	765kV Wardha-Aurangabad-IV	Line	WR	MO	19-06-2016 22:34	Opened manually due to High Voltage	21-06-2016 08:09	33:35:00	2
80	765kV Wardha-Aurangabad-III	Line	WR	MO	04-06-2016 00:27	Opened manually due to High Voltage	05-06-2016 07:56	31:29:00	0
81	765kV Wardha-Aurangabad-III	Line	WR	MO	06-06-2016 01:22	Opened manually due to High Voltage	06-06-2016 11:09	9:47:00	0
82	765kV Wardha-Aurangabad-III	Line	WR	MO	07-06-2016 17:22	Opened manually due to High Voltage	08-06-2016 08:00	14:38:00	0
83	765kV Wardha-Aurangabad-III	Line	WR	MO	10-06-2016 18:33	Opened manually due to High Voltage	12-06-2016 07:30	36:57:00	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
84	765kV Wardha-Aurangabad-III	Line	WR	MO	12-06-2016 17:17	Opened manually due to High Voltage	13-06-2016 05:58	12:41:00	0
85	765kV Wardha-Aurangabad-III	Line	WR	MO	14-06-2016 01:57	Opened manually due to High Voltage	16-06-2016 20:09	66:12:00	0
86	765kV Wardha-Aurangabad-III	Line	WR	MO	22-06-2016 01:46	Opened manually due to High Voltage	22-06-2016 06:25	4:39:00	0
87	765kV Wardha-Aurangabad-III	Line	WR	MO	27-06-2016 23:50	Opened manually due to High Voltage	28-06-2016 09:19	9:29:00	0
88	765kV Wardha-Aurangabad-III	Line	WR	MO	29-06-2016 13:25	Opened manually due to High Voltage	01-07-2016 00:00	34:35:00	0
89	765kV Wardha-Aurangabad-II	Line	WR	MO	06-06-2016 16:11	Opened manually due to High Voltage	07-06-2016 07:48	15:37:00	0
90	765kV Wardha-Aurangabad-II	Line	WR	MO	09-06-2016 17:25	Opened manually due to High Voltage	10-06-2016 06:18	12:53:00	0
91	765kV Wardha-Aurangabad-II	Line	WR	MO	11-06-2016 17:43	Opened manually due to High Voltage	14-06-2016 07:19	61:36:00	0
92	765kV Wardha-Aurangabad-II	Line	WR	TV	25-06-2016 13:01	Tripped on Over Voltage	26-06-2016 07:36	18:35:00	1
93	765kV Wardha-Aurangabad-II	Line	WR	TV	26-06-2016 08:31	Tripped on Over Voltage	27-06-2016 06:52	22:21:00	2
94	765kV Wardha-Aurangabad-II	Line	WR	MO	29-06-2016 00:43	Opened manually due to High Voltage	29-06-2016 10:24	9:41:00	2
95	765kV Wardha-Aurangabad-I	Line	WR	MO	01-06-2016 00:00	Opened manually due to High Voltage	01-06-2016 06:40	6:40:00	0
96	765kV Wardha-Aurangabad-I	Line	WR	MO	01-06-2016 17:31	Opened manually due to High Voltage	02-06-2016 06:55	13:24:00	0
97	765kV Wardha-Aurangabad-I	Line	WR	MO	02-06-2016 17:19	Opened manually due to High Voltage	04-06-2016 07:11	37:52:00	0
98	765kV Wardha-Aurangabad-I	Line	WR	MO	04-06-2016 21:53	Opened manually due to High Voltage	06-06-2016 06:47	32:54:00	0
99	765kV Wardha-Aurangabad-I	Line	WR	TV	09-06-2016 02:13	Tripped on Over Voltage	09-06-2016 06:24	4:11:00	1
100	765kV Wardha-Aurangabad-I	Line	WR	MO	10-06-2016 13:04	Opened manually due to High Voltage	10-06-2016 23:46	10:42:00	1
101	765kV Wardha-Aurangabad-I	Line	WR	MO	30-06-2016 23:59	Opened manually due to High Voltage	01-07-2016 00:00	0:01:00	1
102	765kV Wardha-Aurangabad-I	Line	WR	TV	16-06-2016 18:04	Tripped on Over Voltage	17-06-2016 07:01	12:57:00	2
103	765kV Wardha-Aurangabad-I	Line	WR	MO	17-06-2016 17:33	Opened manually due to High Voltage	18-06-2016 07:49	14:16:00	2
104	765kV Wardha-Aurangabad-I	Line	WR	MO	18-06-2016 17:09	Opened manually due to High Voltage	20-06-2016 06:55	37:46:00	2
105	765kV Wardha-Aurangabad-I	Line	WR	MO	21-06-2016 12:38	Opened manually due to High Voltage	22-06-2016 07:52	19:14:00	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
106	765kV Wardha-Aurangabad-I	Line	WR	MO	22-06-2016 12:00	Opened manually due to High Voltage	22-06-2016 21:14	9:14:00	2
107	765kV Wardha-Aurangabad-I	Line	WR	MO	24-06-2016 00:55	Opened manually due to High Voltage	24-06-2016 07:00	6:05:00	2
108	765kV Wardha-Aurangabad-I	Line	WR	MO	24-06-2016 23:43	Opened manually due to High Voltage	26-06-2016 06:11	30:28:00	2
109	765kV Wardha-Aurangabad-I	Line	WR	MO	27-06-2016 00:34	Opened manually due to High Voltage	28-06-2016 07:06	30:32:00	2
110	765kV Wardha-Aurangabad-I	Line	WR	SO	28-06-2016 07:06	Carrier Channel- 1 & 2 alarm continuous persisting	28-06-2016 20:32	13:26:00	2
111	765kV Wardha-Aurangabad-I	Line	WR	MO	28-06-2016 20:32	Opened manually due to High Voltage	29-06-2016 06:50	10:18:00	2
112	765kV Wardha-Aurangabad-I	Line	WR	MO	29-06-2016 11:50	Opened manually due to High Voltage	30-06-2016 06:35	18:45:00	2
113	765kV Vindhyachal-Satna-II	Line	WR	TL	14-06-2016 17:58	Distance Protection Operated	14-06-2016 18:55	0:57:00	1
114	765kV Tirora-Koradi-II	Line	WR	TL	11-06-2016 17:04	Distance Protection Operated	11-06-2016 18:07	1:03:00	1
115	765kV Sipat-Bilaspur-II	Line	WR	TP	21-06-2016 16:57	DT received at Bilaspur	21-06-2016 18:53	1:56:00	1
116	765kV Seoni-Wardha-II	Line	WR	SE	11-06-2016 15:11	Hot spot in CVT R phase top connector at Wardha	11-06-2016 20:30	5:19:00	0
117	765kV Seoni-Wardha-I	Line	WR	TP	05-06-2016 07:29	B-Phase LR Bucholz relay operated at Wardha	05-06-2016 11:30	4:01:00	1
118	765kV Seoni-Wardha-I	Line	WR	TL	06-06-2016 15:30	Distance Protection Operated	06-06-2016 15:58	0:28:00	2
119	765kV Seoni-Bina-I	Line	WR	TL	06-06-2016 15:11	Distance Protection Operated	06-06-2016 17:19	2:08:00	1
120	765kV Seoni-Bilaspur-II	Line	WR	SE	11-06-2016 17:57	Handtripped on B-Phase LA IPS tube sparking at Bilaspur	11-06-2016 20:18	2:21:00	0
121	765kV Satna-Gwalior-II	Line	WR	SC	01-06-2016 08:12	Stringing works of 765 kV LalithpurAgra-1&2	01-06-2016 20:45	12:33:00	0
122	765kV Satna-Gwalior-II	Line	WR	SE	05-06-2016 09:08	Hotspot	05-06-2016 13:25	4:17:00	0
123	765kV Satna-Gwalior-II	Line	WR	TL	10-06-2016 16:13	Distance Protection Operated	10-06-2016 16:31	0:18:00	1
124	765kV Satna-Gwalior-II	Line	WR	SO	29-06-2016 09:53	Fixing of theft tower members in above waist level	01-07-2016 00:00	38:07:00	1
125	765kV Satna-Gwalior-I	Line	WR	SC	25-06-2016 08:41	For overhead crossing of this transmission line by 765 KV LalitpurAgra Transmission line Ckt-I	25-06-2016 20:02	11:21:00	0
126	765kV Satna-Bina-II	Line	WR	TL	09-06-2016 14:35	Distance Protection Operated	09-06-2016 19:19	4:44:00	1
127	765kV Satna-Bina-II	Line	WR	TL	16-06-2016 16:48	Distance Protection Operated	16-06-2016 22:48	6:00:00	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
128	765kV Satna-Bina-II	Line	WR	SO	23-06-2016 10:00	For removal of Earthwire	23-06-2016 19:14	9:14:00	2
129	765kV Satna-Bina-I	Line	WR	SO	20-06-2016 10:39	For removal of Earth wire	20-06-2016 18:45	8:06:00	0
130	765kV Sasan-Satna-I	Line	WR	TL	07-06-2016 20:38	Distance Protection Operated	07-06-2016 22:42	2:04:00	1
131	765kV Raigarh-PS(Kotra)-Tamnar-I	Line	WR	SO	27-06-2016 08:44	Annual Maintenance	27-06-2016 19:05	10:21:00	0
132	765kV Raigarh-PS(Kotra)-Raipur-PS(Durg)-II	Line	WR	MO	01-06-2016 00:00	Opened manually due to High Voltage	09-06-2016 14:35	206:35:00	0
133	765kV Pune-Sholapur	Line	WR	MO	05-06-2016 03:28	Opened manually due to High Voltage	05-06-2016 10:35	7:07:00	0
134	765kV Pune-Sholapur	Line	WR	MO	06-06-2016 01:35	Opened manually due to High Voltage	06-06-2016 06:57	5:22:00	0
135	765kV Pune-Sholapur	Line	WR	SO	08-06-2016 08:21	E/W erection work	08-06-2016 19:15	10:54:00	0
136	765kV Pune-Sholapur	Line	WR	TV	14-06-2016 01:31	Tripped on Over Voltage	14-06-2016 07:32	6:01:00	1
137	765kV Pune-Sholapur	Line	WR	MO	21-06-2016 04:12	Opened manually due to High Voltage	21-06-2016 06:42	2:30:00	1
138	765kV Pune-Sholapur	Line	WR	MO	22-06-2016 01:46	Opened manually due to High Voltage	22-06-2016 06:24	4:38:00	1
139	765kV Pune-Sholapur	Line	WR	MO	28-06-2016 03:30	Opened manually due to High Voltage	29-06-2016 06:25	26:55:00	1
140	765kV Pune-Sholapur	Line	WR	MO	29-06-2016 22:51	Opened manually due to High Voltage	30-06-2016 06:47	7:56:00	1
141	765kV Pune-Sholapur	Line	WR	MO	30-06-2016 22:11	Opened manually due to High Voltage	01-07-2016 00:00	1:49:00	1
142	765kV Jabalpur-Dharamjaigarh-IV	Line	WR	SE	01-06-2016 00:00	To rectify isolator mal-functioning	04-06-2016 18:51	90:51:00	0
143	765kV Jabalpur-Dharamjaigarh-III	Line	WR	TL	05-06-2016 14:17	Distance Protection Operated	05-06-2016 15:05	0:48:00	1
144	765kV Jabalpur-Dharamjaigarh-II	Line	WR	MO	04-06-2016 18:02	Opened manually due to High Voltage	24-06-2016 09:06	471:04:00	0
145	765kV Jabalpur-Dharamjaigarh-II	Line	WR	SC	24-06-2016 09:06	Crossing of 765kv Korba-Jhadsuguda line	01-07-2016 00:00	158:54:00	0
146	765kV Jabalpur-Dharamjaigarh-I	Line	WR	SC	24-06-2016 09:06	Crossing of 765kv Korba-Jhadsuguda line	27-06-2016 21:53	84:47:00	0
147	765kV Jabalpur-Bhopal	Line	WR	TL	10-06-2016 07:32	Distance Protection Operated	10-06-2016 16:27	8:55:00	1
148	765kV Indore-Vadodara	Line	WR	SC	08-06-2016 08:55	For New 400KV, Khandwa- Indore line crossing work	09-06-2016 02:38	17:43:00	0
149	765kV Indore-Bhopal	Line	WR	SE	03-06-2016 11:29	isolator pad and isolator to aluminium tube connector for 765 KV Bhopal line and BR #II	03-06-2016 19:29	8:00:00	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 Indore-Bhopal	Line	WR	SO	27-06-2016 11:06	For calibration of WTI and OTI of line reactor and rectification of line isolator earth switch at Indore	27-06-2016 18:39	7:33:00	0
151	765kV Durg-Wardha-II	Line	WR	SO	15-06-2016 10:32	for Shifting of R-Ph to Spare	15-06-2016 12:01	1:29:00	0
152	765kV Durg-Wardha-I	Line	WR	SO	10-06-2016 09:47	For Shifting of Y-Ph to Spare	10-06-2016 12:36	2:49:00	0
153	765kV Durg-Wardha-I	Line	WR	SO	11-06-2016 10:16	For Shifting of Y-Ph to Spare	11-06-2016 12:17	2:01:00	0
154	765kV Durg-Wardha-I	Line	WR	SO	13-06-2016 10:09	For Shifting of Y-Ph to Spare	13-06-2016 11:50	1:41:00	0
155	765kV Durg-Wardha-I	Line	WR	SO	14-06-2016 10:20	for Normalisation of all phases (non switchable line reactors) after RTV Coating	14-06-2016 11:50	1:30:00	0
156	765kV Dhule-Vadodara	Line	WR	SO	07-06-2016 10:07	Annual Maintenance	07-06-2016 18:52	8:45:00	0
157	765kV Dhule-Vadodara	Line	WR	MO	11-06-2016 01:37	Opened manually due to High Voltage	11-06-2016 07:16	5:39:00	0
158	765kV Dhule-Vadodara	Line	WR	SE	16-06-2016 12:00	L/R problem at Vadodra	16-06-2016 14:22	2:22:00	0
159	765kV Dhule-Vadodara	Line	WR	MO	19-06-2016 01:35	Opened manually due to High Voltage	19-06-2016 07:30	5:55:00	0
160	765kV Dhule-Vadodara	Line	WR	MO	23-06-2016 22:34	Opened manually due to High Voltage	24-06-2016 06:33	7:59:00	0
161	765kV Bina-Jabalpur-III	Line	WR	SO	24-06-2016 09:24	To facilitate shutdown on LR at Bina	24-06-2016 09:51	0:27:00	0
162	765kV Bina-Jabalpur-III	Line	WR	SO	24-06-2016 17:32	To take L/R at Bina	24-06-2016 18:00	0:28:00	0
163	765kV Bina-Jabalpur-III	Line	WR	SO	25-06-2016 17:18	To restore L/R	25-06-2016 17:49	0:31:00	0
164	765kV Bina-Jabalpur-III	Line	WR	TL	28-06-2016 16:27	Distance Protection Operated	28-06-2016 23:35	7:08:00	1
165	765kV Bina-Jabalpur-II	Line	WR	TL	30-06-2016 13:13	Distance Protection Operated	30-06-2016 19:30	6:17:00	1
166	765kV Bina-Jabalpur-I	Line	WR	SO	21-06-2016 10:45	RTV coating of 765kV Trench make bushings in BTW Reactor	21-06-2016 11:00	0:15:00	0
167	765kV Bina-Jabalpur-I	Line	WR	SO	22-06-2016 09:12	To take out L/R at Bina	22-06-2016 09:20	0:08:00	0
168	765kV Bina-Jabalpur-I	Line	WR	SO	22-06-2016 17:04	To restore L/R	22-06-2016 17:15	0:11:00	0
169	765kV Bina-Jabalpur-I	Line	WR	SO	23-06-2016 09:27	To take out L/R at Bina	23-06-2016 09:39	0:12:00	0
170	765kV Bina-Gwalior-III	Line	WR	TL	07-06-2016 15:36	Distance Protection Operated	07-06-2016 16:07	0:31:00	1
171	765kV Bina-Gwalior-III	Line	WR	TL	09-06-2016 14:22	Distance Protection Operated	09-06-2016 16:14	1:52:00	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
172	765kV Bina-Gwalior-III	Line	WR	TL	10-06-2016 14:35	Distance Protection Operated	10-06-2016 15:26	0:51:00	3
173	765kV Bina-Gwalior-III	Line	WR	TL	09-06-2016 13:53	Distance Protection Operated	09-06-2016 14:20	0:27:00	4
174	765kV Bina-Gwalior-II	Line	WR	TL	10-06-2016 15:12	Distance Protection Operated	10-06-2016 16:05	0:53:00	1
175	765kV Bilaspur-Dharamjaigarh	Line	WR	SE	10-06-2016 18:18	Rectification of Jumper at Bilaspur	10-06-2016 19:25	1:07:00	0
176	765kV Aurangabad-Sholapur-I	Line	WR	SE	05-06-2016 13:23	Sub-Conductor of jumper B-Phase replacement	05-06-2016 17:18	3:55:00	0
177	765kV Akola-Koradi-II	Line	WR	TL	06-06-2016 16:03	Distance Protection Operated	06-06-2016 16:23	0:20:00	1
178	765kV Akola-Ektuni-II	Line	WR	TL	05-06-2016 16:12	Distance Protection Operated	05-06-2016 17:47	1:35:00	1
179	765kV Akola-Ektuni-II	Line	WR	SO	22-06-2016 07:35	Faulty Y phase metering CVT Replacement work	22-06-2016 18:20	10:45:00	1
180	765kV Akola-Ektuni-I	Line	WR	TL	05-06-2016 17:10	Distance Protection Operated	06-06-2016 00:16	7:06:00	1
181	765kV Akola-Ektuni-I	Line	WR	TP	06-06-2016 20:14	B-PH PRV PROTECTION OF L/R AT EKTUNI OPERATED	06-06-2016 22:38	2:24:00	2
182	765kV Akola-Ektuni-I	Line	WR	TP	07-06-2016 15:26	B-PH PRV OF L/R TRIP AT EKTUNI	07-06-2016 22:28	7:02:00	3
183	765kV Akola-Ektuni-I	Line	WR	TP	19-06-2016 19:33	Relay Maloperation R phase PRV	19-06-2016 21:28	1:55:00	4
184	765kV Raichur-Kurnool-II	Line	SR	MO	03-06-2016 22:06	Opened manually due to High Voltage	04-06-2016 07:23	9:17:00	0
185	765kV Raichur-Kurnool-II	Line	SR	MO	04-06-2016 21:36	Opened manually due to High Voltage	05-06-2016 06:56	9:20:00	0
186	765kV Raichur-Kurnool-II	Line	SR	MO	05-06-2016 18:01	Opened manually due to High Voltage	06-06-2016 07:21	13:20:00	0
187	765kV Raichur-Kurnool-II	Line	SR	MO	07-06-2016 23:55	Opened manually due to High Voltage	08-06-2016 09:19	9:24:00	0
188	765kV Raichur-Kurnool-II	Line	SR	MO	08-06-2016 23:57	Opened manually due to High Voltage	09-06-2016 07:30	7:33:00	0
189	765kV Raichur-Kurnool-II	Line	SR	MO	11-06-2016 03:14	Opened manually due to High Voltage	11-06-2016 09:04	5:50:00	0
190	765kV Raichur-Kurnool-II	Line	SR	MO	12-06-2016 00:46	Opened manually due to High Voltage	12-06-2016 07:36	6:50:00	0
191	765kV Raichur-Kurnool-II	Line	SR	MO	13-06-2016 00:47	Opened manually due to High Voltage	13-06-2016 11:52	11:05:00	0
192	765kV Raichur-Kurnool-II	Line	SR	MO	19-06-2016 23:08	Opened manually due to High Voltage	20-06-2016 06:23	7:15:00	0
193	765kV Raichur-Kurnool-II	Line	SR	MO	21-06-2016 23:02	Opened manually due to High Voltage	22-06-2016 06:32	7:30:00	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 Raichur-Kurnool-II	Line	SR	MO	22-06-2016 23:09	Opened manually due to High Voltage	23-06-2016 07:40	8:31:00	0
195	765kV Raichur-Kurnool-II	Line	SR	MO	23-06-2016 23:09	Opened manually due to High Voltage	24-06-2016 05:57	6:48:00	0
196	765kV Raichur-Kurnool-II	Line	SR	MO	24-06-2016 23:43	Opened manually due to High Voltage	25-06-2016 10:07	10:24:00	0
197	765kV Raichur-Kurnool-II	Line	SR	MO	26-06-2016 23:35	Opened manually due to High Voltage	27-06-2016 08:18	8:43:00	0
198	765kV Raichur-Kurnool-II	Line	SR	MO	27-06-2016 22:31	Opened manually due to High Voltage	28-06-2016 06:12	7:41:00	0
199	765kV Raichur-Kurnool-II	Line	SR	MO	29-06-2016 03:14	Opened manually due to High Voltage	29-06-2016 06:39	3:25:00	0
200	765kV Raichur-Kurnool-II	Line	SR	MO	29-06-2016 23:25	Opened manually due to High Voltage	30-06-2016 05:47	6:22:00	0
201	765kV Raichur-Kurnool-II	Line	SR	MO	30-06-2016 22:33	Opened manually due to High Voltage	01-07-2016 00:00	1:27:00	0
202	765kV Raichur-Kurnool-I	Line	SR	MO	10-06-2016 01:14	Opened manually due to High Voltage	10-06-2016 21:39	20:25:00	0
203	765kV Raichur-Kurnool-I	Line	SR	TV	28-06-2016 23:54	Tripped on Over Voltage	29-06-2016 05:53	5:59:00	1
204	765kV Kurnool-Thiruvalem-II	Line	SR	TV	02-06-2016 03:24	Tripped on Over Voltage	13-06-2016 11:00	271:36:00	1
205	765kV Kurnool-Thiruvalem-II	Line	SR	TV	28-06-2016 23:54	Tripped on Over Voltage	29-06-2016 11:40	11:46:00	2
206	765kV Kurnool-Thiruvalem-I	Line	SR	MO	01-06-2016 00:00	Opened manually due to High Voltage	02-06-2016 10:24	34:24:00	0
207	765kV Kurnool-Thiruvalem-I	Line	SR	MO	13-06-2016 11:10	Opened manually due to High Voltage	01-07-2016 00:00	420:50:00	0
208	765kV Kurnool-Nellore(PS)-II	Line	SR	MO	01-06-2016 00:00	Opened manually due to High Voltage	16-06-2016 14:19	374:19:00	0
209	765kV Kurnool-Nellore(PS)-I	Line	SR	SO	16-06-2016 15:17	CSD Commissioning Work	01-07-2016 00:00	344:43:00	0
400kV - IR									
210	400 kV Zerda-Kankaroli	Line	WR/NR	TS	29-06-2016 05:40	Bus fault at Kansari	29-06-2016 10:37	4:57:00	1
211	400 kV Zerda-Bhinmal	Line	WR/NR	SE	28-06-2016 11:21	Emergency Shutdown	28-06-2016 13:22	2:01:00	0
212	400 kV Zerda-Bhinmal	Line	WR/NR	TS	30-06-2016 01:36	Y-PH BUSHING OF 220/66KV TRANSFORMER FLASHED OVER AT KANSARI	30-06-2016 19:20	17:44:00	1
213	400 kV Varanasi-Biharshariff-II	Line	ER/NR	SO	09-06-2016 12:16	Earth wire damaged	09-06-2016 14:32	2:16:00	0
214	400 kV Varanasi-Biharshariff-II	Line	ER/NR	SC	22-06-2016 14:59	For bays swapping at Biharsarif end	01-07-2016 00:00	201:01:00	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
215	400 kV Varanasi-Biharshariff-I	Line	ER/NR	TL	07-06-2016 21:44	Distance Protection Operated	07-06-2016 23:28	1:44:00	1
216	400 kV Varanasi-Biharshariff-I	Line	ER/NR	SC	22-06-2016 14:58	For bays swapping at Biharsarif end	01-07-2016 00:00	201:02:00	1
217	400 kV Tala - Binaguri - IV	Line	Bhutan	TL	13-06-2016 01:04	Distance Protection Operated	13-06-2016 01:44	0:40:00	1
218	400 kV Tala - Binaguri - IV	Line	Bhutan	SO	21-06-2016 11:37	CSD Commissioning Work	21-06-2016 17:50	6:13:00	1
219	400 kV Tala - Binaguri - IV	Line	Bhutan	TL	27-06-2016 13:14	Distance Protection Operated	27-06-2016 14:30	1:16:00	2
220	400 kV Tala - Binaguri - IV	Line	Bhutan	TL	29-06-2016 21:12	Distance Protection Operated	29-06-2016 22:13	1:01:00	3
221	400 kV Sterlite-Raigarh	Line	ER/WR	SE	02-06-2016 13:45	Hotspot	02-06-2016 17:00	3:15:00	0
222	400 kV Siliguri-Bongaigaon-IV	Line	ER/NER	TL	14-06-2016 02:47	Distance Protection Operated	14-06-2016 03:19	0:32:00	1
223	400 kV Siliguri-Bongaigaon-III	Line	ER/NER	TL	03-06-2016 12:47	Distance Protection Operated	03-06-2016 13:24	0:37:00	1
224	400 kV Siliguri-Bongaigaon-II	Line	ER/NER	SO	25-06-2016 11:43	Replacement of suspension insulators	25-06-2016 22:26	10:43:00	0
225	400 kV Siliguri-Bongaigaon-I	Line	ER/NER	SO	23-06-2016 09:23	Rectification of OPGW Link	23-06-2016 20:54	11:31:00	0
226	400 kV Siliguri-Bongaigaon-I	Line	ER/NER	SE	25-06-2016 22:55	Problem in Reactor at Bongaigaon	01-07-2016 00:00	121:05:00	0
227	400 kV Sasaram-Sarnath	Line	ER/NR	TL	23-06-2016 15:38	Distance Protection Operated	23-06-2016 17:16	1:38:00	1
228	400 kV Sasaram-Allahabad	Line	ER/NR	TP	22-06-2016 18:42	PLCC Problem	22-06-2016 19:16	0:34:00	1
229	400 kV Rourkela-Raigarh	Line	ER/WR	TL	03-06-2016 16:45	Distance Protection Operated	04-06-2016 11:15	18:30:00	1
230	400 kV Rourkela-Raigarh	Line	ER/WR	TL	16-06-2016 13:51	Distance Protection Operated	18-06-2016 00:02	34:11:00	2
231	400 kV Ranchi-Sipat-II	Line	ER/WR	SC	15-06-2016 08:53	power line crossing of under construction 765kv D/C Korba-Jharsududa Line -2	15-06-2016 20:29	11:36:00	0
232	400 kV Ranchi-Sipat-I	Line	ER/WR	SC	15-06-2016 08:45	power line crossing of under construction 765kv D/C Korba-Jharsududa Line -2	15-06-2016 20:24	11:39:00	0
233	400 kV Patna-Balia-IV	Line	ER/NR	SO	03-06-2016 07:54	To attend damaged insulators	03-06-2016 15:10	7:16:00	0
234	400 kV Patna-Balia-III	Line	ER/NR	SO	01-06-2016 07:59	To attend damaged insulators	01-06-2016 16:31	8:32:00	0
235	400 kV Patna-Balia-III	Line	ER/NR	SO	02-06-2016 07:23	To attend damaged insulators	02-06-2016 16:06	8:43:00	0
236	400 kV Patna-Balia-III	Line	ER/NR	TS	02-06-2016 16:06	LA burst at Patna end	03-06-2016 18:00	25:54:00	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 Patna-Balia-III	Line	ER/NR	TL	21-06-2016 16:38	Distance Protection Operated	22-06-2016 00:46	8:08:00	2
238	400 kV Patna-Balia-III	Line	ER/NR	SO	28-06-2016 08:50	For replacement of insulators punctured	28-06-2016 14:33	5:43:00	2
239	400 kV Patna-Balia-II	Line	ER/NR	TL	21-06-2016 16:00	Distance Protection Operated	21-06-2016 17:26	1:26:00	1
240	400 kV Patna-Balia-I	Line	ER/NR	TL	21-06-2016 16:59	Distance Protection Operated	21-06-2016 17:05	0:06:00	1
241	400 kV Jeypore-Gazuwaka-II	Line	ER/SR	SC	03-06-2016 06:44	Line Crossing Work	03-06-2016 21:14	14:30:00	0
242	400 kV Jeypore-Gazuwaka-II	Line	ER/SR	SC	04-06-2016 06:14	Line Crossing Work	04-06-2016 20:16	14:02:00	0
243	400 kV Jeypore-Gazuwaka-I	Line	ER/SR	SC	03-06-2016 06:26	Line Crossing Work	03-06-2016 20:41	14:15:00	0
244	400 kV Jeypore-Gazuwaka-I	Line	ER/SR	SC	04-06-2016 06:43	Line Crossing Work	04-06-2016 21:03	14:20:00	0
245	400 kV IBEUL-Raigarh-I	Line	ER/WR	SC	10-06-2016 07:01	CROSSING OF 400 KV IBEUL - JHARSUGUDA D/C	10-06-2016 20:51	13:50:00	0
246	400 kV IBEUL-Raigarh-I	Line	ER/WR	SE	14-06-2016 19:50	HAND TRIPPED BY IND BHARATH DUE TO FLASH OVER ON GANTRY TOWER	15-06-2016 16:24	20:34:00	0
247	400 kV Bhadrawati-Ramagundam-II	Line	WR/SR	SO	11-06-2016 09:58	Insulator Replacement Work	11-06-2016 18:42	8:44:00	0
248	400 kV Bhadrawati-Ramagundam-II	Line	WR/SR	SO	12-06-2016 07:34	Insulator Replacement Work	12-06-2016 18:46	11:12:00	0
249	400 kV Bhadrawati-Ramagundam-II	Line	WR/SR	SO	13-06-2016 07:40	Insulator Replacement Work	13-06-2016 19:16	11:36:00	0
250	400 kV Bhadrawati-Ramagundam-II	Line	WR/SR	SO	14-06-2016 07:57	Insulator Replacement Work	14-06-2016 19:14	11:17:00	0
251	400 kV Bhadrawati-Ramagundam-II	Line	WR/SR	SO	15-06-2016 07:48	Insulator Replacement Work	15-06-2016 19:04	11:16:00	0
252	400 kV Bhadrawati-Ramagundam-II	Line	WR/SR	SO	16-06-2016 07:08	Insulator Replacement Work	16-06-2016 19:28	12:20:00	0
253	400 kV Bhadrawati-Ramagundam-II	Line	WR/SR	SO	17-06-2016 07:20	Insulator Replacement Work	17-06-2016 19:41	12:21:00	0
254	400 kV Bhadrawati-Ramagundam-II	Line	WR/SR	SO	18-06-2016 07:27	Insulator Replacement Work	18-06-2016 21:10	13:43:00	0
255	400 kV Bhadrawati-Ramagundam-II	Line	WR/SR	SO	19-06-2016 07:13	Insulator Replacement Work	19-06-2016 19:51	12:38:00	0
256	400 kV Bhadrawati-Ramagundam-II	Line	WR/SR	SO	20-06-2016 07:22	Insulator Replacement Work	20-06-2016 20:01	12:39:00	0
257	400 kV Bhadrawati-Ramagundam-II	Line	WR/SR	SO	21-06-2016 07:03	Insulator Replacement Work	21-06-2016 20:02	12:59:00	0
258	400 kV Bhadrawati-Ramagundam-II	Line	WR/SR	SO	23-06-2016 15:55	Insulator Replacement Work	23-06-2016 19:58	4:03:00	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
259	400 kV Bhadrawati-Ramagundam-II	Line	WR/SR	TV	25-06-2016 23:55	Tripped on Over Voltage	26-06-2016 01:19	1:24:00	1
220 kV - IR									
260	220 kV Talangde-Chikkodi	Line	WR/SR	TL	08-06-2016 15:46	L/C DUE TO JUMPER CUT	08-06-2016 18:01	2:15:00	1
261	220 kV Talangde-Chikkodi	Line	WR/SR	SO	14-06-2016 12:11	Relay Replacement	16-06-2016 18:25	54:14:00	1
262	220 kV Pusauli-Sahupuri	Line	ER/NR	TL	04-06-2016 11:28	Distance Protection Operated	04-06-2016 12:16	0:48:00	1
263	220 kV Pusauli-Sahupuri	Line	ER/NR	TL	06-06-2016 11:28	Distance Protection Operated	06-06-2016 12:30	1:02:00	2
264	220 kV Pusauli-Sahupuri	Line	ER/NR	TL	07-06-2016 11:51	Distance Protection Operated	07-06-2016 12:26	0:35:00	3
265	220 kV Pusauli-Sahupuri	Line	ER/NR	TL	12-06-2016 12:07	Distance Protection Operated	12-06-2016 12:47	0:40:00	4
266	220 kV Pusauli-Sahupuri	Line	ER/NR	SE	30-06-2016 13:04	Flashover observed in 220 KV side isolator of ICT at Pusauli	30-06-2016 16:43	3:39:00	4
267	220 kV Mudasangi (Kolhapur)-Chikkodi	Line	WR/SR	SO	02-06-2016 12:08	Shutdown	02-06-2016 17:20	5:12:00	0
268	220 kV Mudasangi (Kolhapur)-Chikkodi	Line	WR/SR	SO	22-06-2016 10:07	Relay Testing	23-06-2016 19:03	32:56:00	0
269	220 kV Mehgaon-Auraiya	Line	WR/NR	SC	08-06-2016 09:53	stringing of 800kV HVDC Champa Kurukshetra TL	08-06-2016 18:20	8:27:00	0
270	220 kV Mehgaon-Auraiya	Line	WR/NR	SC	09-06-2016 09:10	stringing of 800kV HVDC Champa Kurukshetra TL	09-06-2016 18:59	9:49:00	0
271	220 kV Malbase - Birpara	Line	Bhutan	SO	04-06-2016 09:58	Tree cutting work	04-06-2016 19:31	9:33:00	0
272	220 kV Malanpur-Auraiya	Line	WR/NR	SC	08-06-2016 09:52	stringing of 800kV HVDC Champa Kurukshetra TL	08-06-2016 18:23	8:31:00	0
273	220 kV Malanpur-Auraiya	Line	WR/NR	SC	09-06-2016 09:09	stringing of 800kV HVDC Champa Kurukshetra TL	09-06-2016 18:53	9:44:00	0
274	220 kV Chukha - Birpara - II	Line	Bhutan	SE	13-06-2016 11:37	Replace defective trip coil of defective CB	13-06-2016 16:26	4:49:00	0
275	220 kV Budhipadar-Raigarh	Line	ER/WR	TL	26-06-2016 16:58	Distance Protection Operated	26-06-2016 17:48	0:50:00	1
276	220 kV Budhipadar-Korba-III	Line	ER/WR	TL	07-06-2016 18:00	Distance Protection Operated	07-06-2016 22:35	4:35:00	1
277	220 kV Budhipadar-Korba-III	Line	ER/WR	TL	08-06-2016 18:00	Distance Protection Operated	08-06-2016 22:35	4:35:00	2
278	220 kV Budhipadar-Korba-III	Line	ER/WR	SO	30-06-2016 14:56	For connection of CT & PT for the PMU installed under URTDM project	30-06-2016 16:09	1:13:00	2
279	220 kV Budhipadar-Korba-II	Line	ER/WR	TL	23-06-2016 15:19	Distance Protection Operated	23-06-2016 23:05	7:46:00	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
280	220 kV Budhipadar-Korba-II	Line	ER/WR	SO	30-06-2016 11:25	PMU Installation	30-06-2016 13:27	2:02:00	1
281	220 kV Birpara-Salakati-II	Line	ER/NER	SO	13-06-2016 07:29	Insulator Replacement Work	13-06-2016 18:55	11:26:00	0
282	220 kV Birpara-Salakati-II	Line	ER/NER	SO	15-06-2016 07:05	Insulator Replacement Work	15-06-2016 20:17	13:12:00	0
283	220 kV Birpara-Salakati-II	Line	ER/NER	SO	17-06-2016 06:38	Insulator Replacement Work	17-06-2016 17:40	11:02:00	0
284	220 kV Birpara-Salakati-II	Line	ER/NER	SO	19-06-2016 07:00	Insulator Replacement Work	19-06-2016 18:25	11:25:00	0
285	220 kV Birpara-Salakati-I	Line	ER/NER	SO	12-06-2016 07:20	Insulator Replacement Work	12-06-2016 18:32	11:12:00	0
286	220 kV Birpara-Salakati-I	Line	ER/NER	SO	14-06-2016 07:34	Insulator Replacement Work	14-06-2016 19:46	12:12:00	0
287	220 kV Birpara-Salakati-I	Line	ER/NER	SO	16-06-2016 06:44	Insulator Replacement Work	16-06-2016 19:24	12:40:00	0
288	220 kV Birpara-Salakati-I	Line	ER/NER	SO	18-06-2016 06:54	Insulator Replacement Work	18-06-2016 19:24	12:30:00	0
765 kV Reactors & ICTs									
289	B/R-I at Champa	Bus Reactor	WR	SC	01-06-2016 00:00	For construction of Lightening Mast at Champa	03-06-2016 18:12	66:12:00	0
290	B/R-I at Bhopal	Bus Reactor	WR	SO	02-06-2016 07:14	Daignostic Testing & allied Bay Maintenance work	04-06-2016 18:13	58:59:00	0
291	B/R-I at Sasan	Bus Reactor	WR	SO	06-06-2016 09:03	Annual Maintenance	06-06-2016 20:09	11:06:00	0
292	B/R-I at Tamnar	Bus Reactor	WR	SO	10-06-2016 10:28	Annual Maintenance	10-06-2016 11:38	1:10:00	0
293	B/R-I at Tamnar	Bus Reactor	WR	SO	11-06-2016 09:58	Annual Maintenance	11-06-2016 12:09	2:11:00	0
294	B/R-I at Sholapur	Bus Reactor	WR	SO	15-06-2016 10:21	Oil leakage problem	15-06-2016 11:21	1:00:00	0
295	B/R-I at Wardha	Bus Reactor	WR	SE	16-06-2016 16:21	Emergency Shutdown	16-06-2016 18:09	1:48:00	0
296	B/R-I at Sholapur	Bus Reactor	WR	SE	17-06-2016 11:50	To attend oil leakage	17-06-2016 12:51	1:01:00	0
297	B/R-I at Vadodara	Bus Reactor	WR	SO	18-06-2016 07:07	For commissioning of spare reactor	18-06-2016 16:56	9:49:00	0
298	B/R-I at Bhopal	Bus Reactor	WR	SO	25-06-2016 10:32	For attending the Oil leakage from the flange of Buchholz in B-Phase	25-06-2016 18:05	7:33:00	0
299	B/R-II at Bina	Bus Reactor	WR	SO	27-06-2016 11:04	RTV coating of 765kV Trench make bushings in BTW Reactor	27-06-2016 18:33	7:29:00	0
300	B/R-I at Bilaspur	Bus Reactor	WR	SO	28-06-2016 09:17	For RTV Coating of HV Bushing R-Ph at Bilaspur.	28-06-2016 11:36	2:19:00	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
301	B/R-II at Bina	Bus Reactor	WR	SO	29-06-2016 10:04	RTV coating of 765kV Trench make bushings in BTW Reactor	29-06-2016 14:17	4:13:00	0
302	B/R-II at Bina	Bus Reactor	WR	SO	30-06-2016 09:04	RTV coating of 765kV Trench make bushings in BTW Reactor	30-06-2016 17:18	8:14:00	0
303	765/400 kV ICT-I at Fatehpur	ICT	NR	TP	01-06-2016 11:08	OLTC PRD operated	01-06-2016 12:30	1:22:00	1
304	765/400 kV ICT-I at Unnao	ICT	NR	TP	01-06-2016 14:06	Tripped on Buckholz	01-06-2016 22:22	8:16:00	1
305	765/400 kV ICT-II at Sasan	ICT	WR	SO	02-06-2016 08:20	Annual Maintenance	03-06-2016 19:10	34:50:00	0
306	765/400 kV ICT-II at Vadodara	ICT	WR	SO	03-06-2016 12:00	Annual Maintenance	03-06-2016 14:12	2:12:00	0
307	765/400 kV ICT-II at Aurangabad(PG)	ICT	WR	TS	05-06-2016 18:14	DIFFERENTIAL PROTECTION OPERATED	06-06-2016 00:58	6:44:00	1
308	765/400 kV ICT-I at Ektuni	ICT	WR	TP	05-06-2016 21:48	B-Phase PRV Operated	06-06-2016 10:34	12:46:00	1
309	765/400 kV ICT-II at Tamnar-PS	ICT	WR	SE	06-06-2016 16:21	Emergency Shutdown	06-06-2016 19:01	2:40:00	0
310	765/400 kV ICT-I at Angul	ICT	ER	TP	14-06-2016 00:08	Maloperation of overflux relay	14-06-2016 03:48	3:40:00	1
311	765/400 kV ICT-II at Angul	ICT	ER	SE	14-06-2016 00:08	Sparking observed	14-06-2016 03:56	3:48:00	0
312	765/400 kV ICT-III at Angul	ICT	ER	TP	14-06-2016 00:08	Maloperation of overflux relay	14-06-2016 07:29	7:21:00	1
313	765/400 kV ICT-IV at Angul	ICT	ER	TP	14-06-2016 00:08	Maloperation of overflux relay	14-06-2016 07:29	7:21:00	1
314	765/400 kV ICT-III at Nellore	ICT	SR	TP	14-06-2016 11:26	Relay Maloperation	14-06-2016 11:49	0:23:00	1
315	765/400 kV ICT-I at Dharamjaigarh	ICT	WR	TP	14-06-2016 13:52	TRIPPED ON DIFFERENTIAL PROTECTION	14-06-2016 16:35	2:43:00	1
316	765/400 kV ICT-I at Dharamjaigarh	ICT	WR	TP	14-06-2016 17:14	TRIPPED ON DIFFERENTIAL PROTECTION	14-06-2016 22:58	5:44:00	2
317	765/400 kV ICT-II at Dharamjaigarh	ICT	WR	TP	14-06-2016 13:52	TRIPPED ON DIFFERENTIAL PROTECTION	15-06-2016 00:04	10:12:00	1
318	765/400 kV ICT-II at Unnao	ICT	NR	TS	01-06-2016 13:34	Cable Fault	01-06-2016 15:02	1:28:00	1
319	765/400 kV ICT-II at Unnao	ICT	NR	TS	15-06-2016 18:52	Control panel cable damage	16-06-2016 00:51	5:59:00	2
320	765/400 kV ICT-I at Indore	ICT	WR	SO	17-06-2016 11:16	To install FO sensor	17-06-2016 14:07	2:51:00	0
321	765/400 kV ICT-I at Sasan	ICT	WR	SE	18-06-2016 10:38	To arrest leakage in fire pipe line	18-06-2016 15:08	4:30:00	0
322	765/400 kV ICT-I at Ranchi New	ICT	ER	SO	18-06-2016 10:21	To arrest oil leakages from PRV, MOG air release valve	18-06-2016 21:59	11:38:00	0

S. No.	Name of Transmission Element	Type of the element	Region Involved	Fault Type	Tripping Date and Time	Brief Reason/Relay Indication	Restoration Date and Time	Duration	Number of Cumulative tripping in the month
323	765/400 kV ICT-II at Indore	ICT	WR	SO	18-06-2016 11:34	For taking out R phase ICT for installation of FO sensor/FO Terminal block	18-06-2016 13:37	2:03:00	0
324	765/400 kV ICT-I at Ranchi New	ICT	ER	SO	20-06-2016 09:02	To arrest oil leakages from PRV, MOG air release valve	20-06-2016 18:41	9:39:00	0
325	765/400 kV ICT-I at Raipur PS(Durg)	ICT	WR	SC	21-06-2016 09:52	Moment of new ICT-II	21-06-2016 19:43	9:51:00	0
326	765/400 kV ICT-II at Ranchi New	ICT	ER	SO	21-06-2016 09:31	To arrest oil leakages from PRV, MOG air release valve	21-06-2016 17:58	8:27:00	0
327	765/400 kV ICT-II at Nellore	ICT	SR	SO	21-06-2016 09:23	LA BAYS REPLACEMENT	21-06-2016 21:22	11:59:00	0
328	765/400 kV ICT-II at Phagi	ICT	NR	SO	21-06-2016 07:45	Replacement of damaged Jumper	21-06-2016 15:47	8:02:00	0
329	765/400 kV ICT-II at Ranchi New	ICT	ER	SO	22-06-2016 08:53	To arrest oil leakages from PRV, MOG air release valve	22-06-2016 16:46	7:53:00	0
330	765/400 kV ICT-III at Nellore	ICT	SR	SO	22-06-2016 08:51	REPLACEMENT WORKS	22-06-2016 18:23	9:32:00	1
331	765/400 kV ICT-II at Wardha	ICT	WR	TP	22-06-2016 20:02	PRD OPERATED	22-06-2016 22:11	2:09:00	1
332	765/400 kV ICT-I at Raichur	ICT	SR	TP	27-06-2016 15:38	WTI Maloperation	27-06-2016 17:10	1:32:00	1
333	765/400 kV ICT-I at Unnao	ICT	NR	TS	28-06-2016 12:27	Tripped during station transformer load change over	28-06-2016 13:22	0:55:00	2
334	765/400 kV ICT-II at Unnao	ICT	NR	TS	28-06-2016 12:27	Tripped during station transformer load change over	28-06-2016 13:22	0:55:00	3
335	765/400 kV ICT-I at Wardha	ICT	WR	SE	29-06-2016 15:20	TO attend dropper of 765KV ICT-I Y-ph HV side at Wardha S/s	29-06-2016 17:15	1:55:00	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

21. System Reliability Indices Report for the month of June 2016

Percentage (%) of times ATC was violated

S.No.	Corridor	Number of Blocks Violated	Number of Hours Violated	%Violation
1	WR-NR	337	84.25	11.70
2	ER-NR	0	0.00	0.00
3	Import of NR	991	247.75	34.41
4	NEW-SR	71	17.75	2.47
5	ER-NER	42	10.50	1.46

Percentage(%) of times (N-1) Criteria was violated

S.No.	Corridor	Number of Blocks Violated	Number of Hours Violated	%Violation
1	WR-NR	48	12.00	1.67
2	ER-NR	0	0.00	0.00
3	Import of NR	159	39.75	5.52
4	NEW-SR	3	0.75	0.10
4	ER-NER	34	8.50	1.18

Remarks: Flows crossing Total Transfer Capability (TTC) on interregional corridors has been worked out as a proxy for (N-1) violation.



POWER SYSTEM OPERATION CORPORATION LIMITED

पावर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड

NATIONAL LOAD DESPATCH CENTRE – राष्ट्रीय भार प्रेषण केन्द्र

POWERGRID, B-9, Qutab Institutional Area,

Katwaria Sarai, New Delhi-110016.