

पावर सिस्टम ऑपरेशन कॉरपोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

POWER SYSTEM OPERATION CORPORATION LIMITED

(A wholly owned subsidiary of POWERGRID)



पंजीकृत एवं केन्द्रीय कार्यालय: बी-9, प्रथम तल, कुतुब इंस्टीट्यूशनल एरिया, कटवारिया सराय, नई दिल्ली-110 016
Registered & Corporate Office : B - 9, 1st Floor, Qutub Institutional Area, Katwaria Sarai, New Delhi - 110 016
Website : www.posoco.in, www.nldc.in, Tel: 011-26536832, 26524522, Fax: 011-26524525, 26536901

संदर्भ संख्या:-POSOCO/NLDC/GM/

दिनांक: 23.09.2016

सेवा में,

वितरण सूची के अनुसार

विषय:- निष्पादन रिपोर्ट - अगस्त 2016

महोदय,

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

धन्यवाद

भवदीय

Upt. of Cmb 23/9/16

(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, शिलोंग - 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, शिलोंग - 793006
General Manager, NERLDC, Dongtiah, Lower Nongrah, Laplang, Shillong-793006



POWER SYSTEM OPERATION CORPORATION LIMITED

(A wholly owned subsidiary of POWERGRID)

पाँवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड

NATIONAL LOAD DESPATCH CENTRE –राष्ट्रीय भार प्रेषण केन्द्र

मासिक ऑपरेशन रिपोर्ट

Monthly
Operation Report



अगस्त 2016

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

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



माह अगस्त 2016 के लिए प्रचालन निष्पादन रिपोर्ट
OPERATIONAL PERFORMANCE REPORT FOR THE
MONTH OF AUGUST 2016

पृष्ठसूची CONTENTS

1	माह अगस्त 2016 की सारांश रिपोर्ट Summary of report for the month of August 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 अगस्त से तुलना Energy requirement and met comparison with August 2015	18
10	शिखर मांग आवश्यकता एवं आपूर्ति की पिछले वर्ष माह अगस्त से तुलना Peak demand requirement and met comparison with August 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

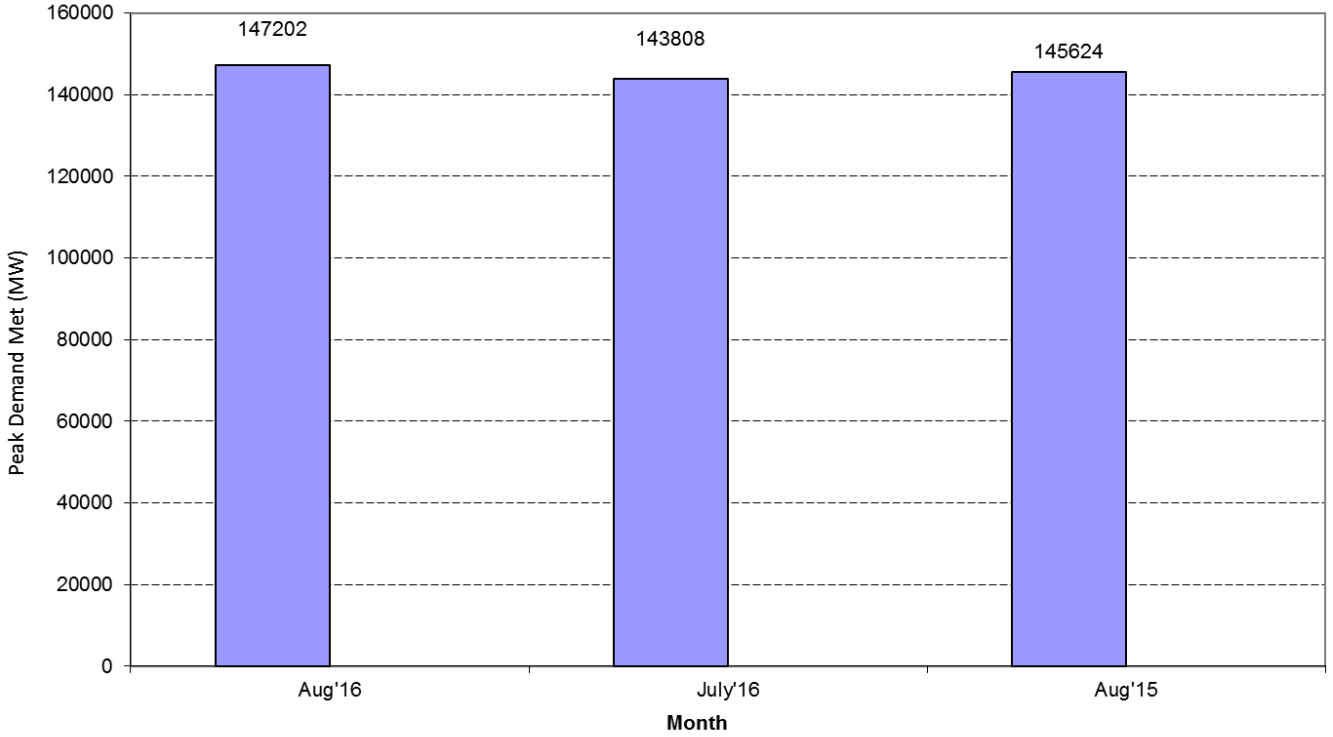
16	अक्षय ऊर्जा प्रमाण पत्र प्रक्रिया Renewable energy certificate mechanism	32-34
17	मुख्य घटनाएँ एवं दिसटरबेनसेज़ Important events/disturbances	35-46
18	नए कमीशंड पारेषण तत्व New elements commissioned	47
19	विभव रूपरेखा Voltage profile	48
20	अगस्त 2016 के दौरान रा.भा.प्रे.के. द्वारा निगरानी में तत्वों की ट्रिपिंग की सूची List of tripping of elements monitored by NLDC for the month of August 2016	49-61
21	अगस्त 2016 के लिए सिस्टम रिलाइबिलिटी सूचकांक System Reliability Indices for August 2016	62

1. SUMMARY OF REPORT FOR THE MONTH OF AUGUST 2016

Peak Demand Met

Increased by 2.36% as compared to July 2016

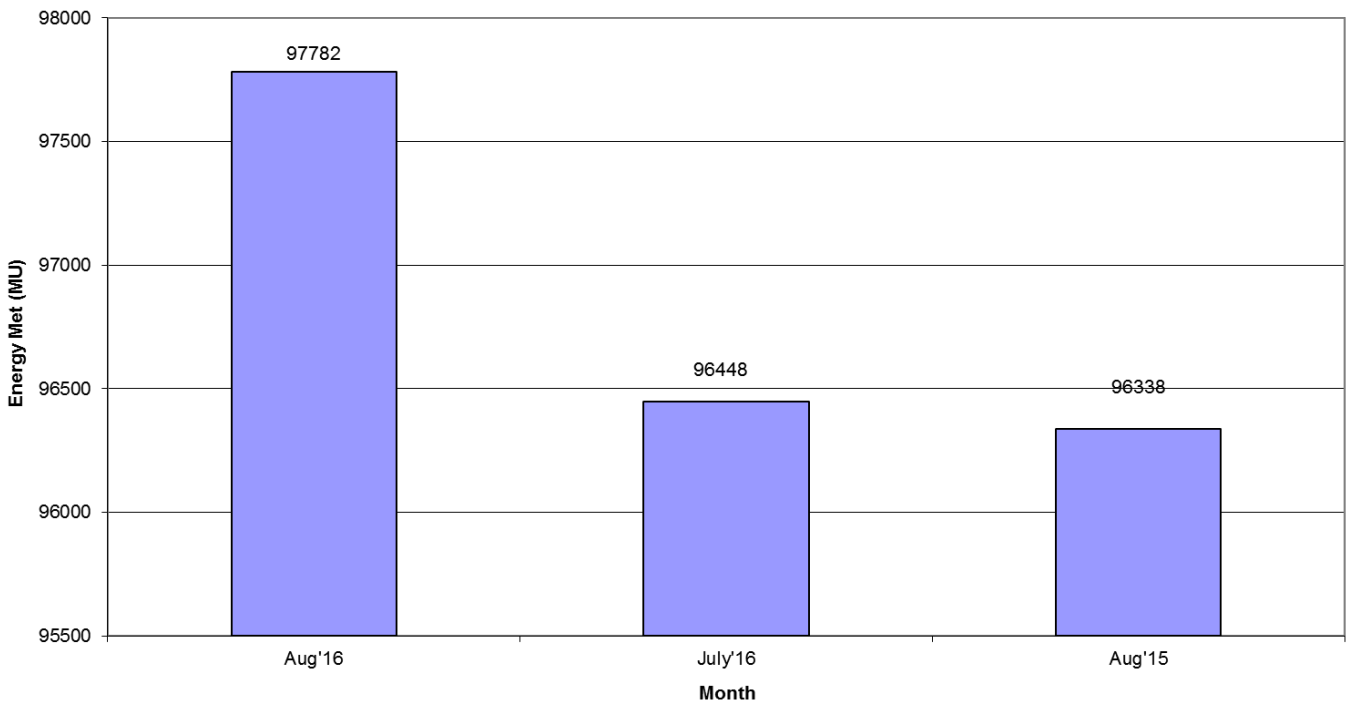
Increased by 1.08% as compared to Aug 2015



Energy Met

Increased by 1.38% as compared to July 2016

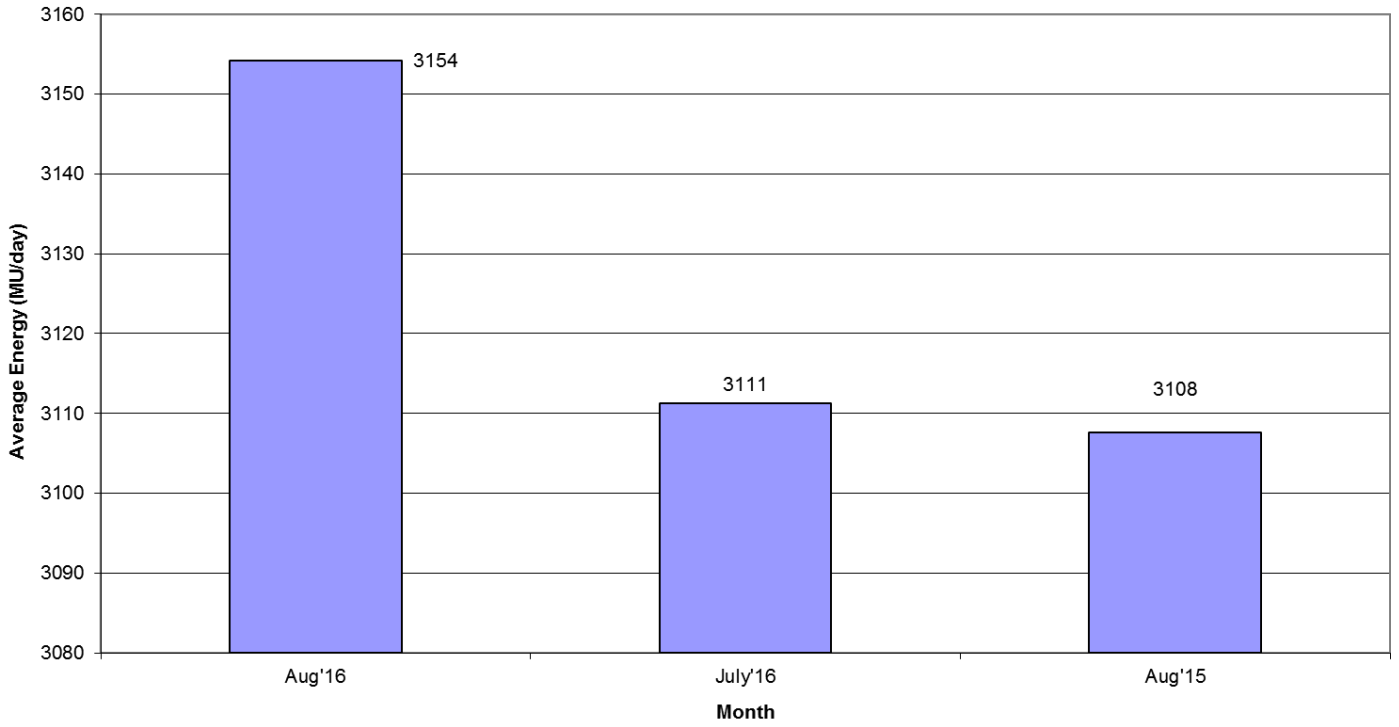
Increased by 1.50% as compared to Aug 2015



1. SUMMARY OF REPORT FOR THE MONTH OF AUGUST 2016

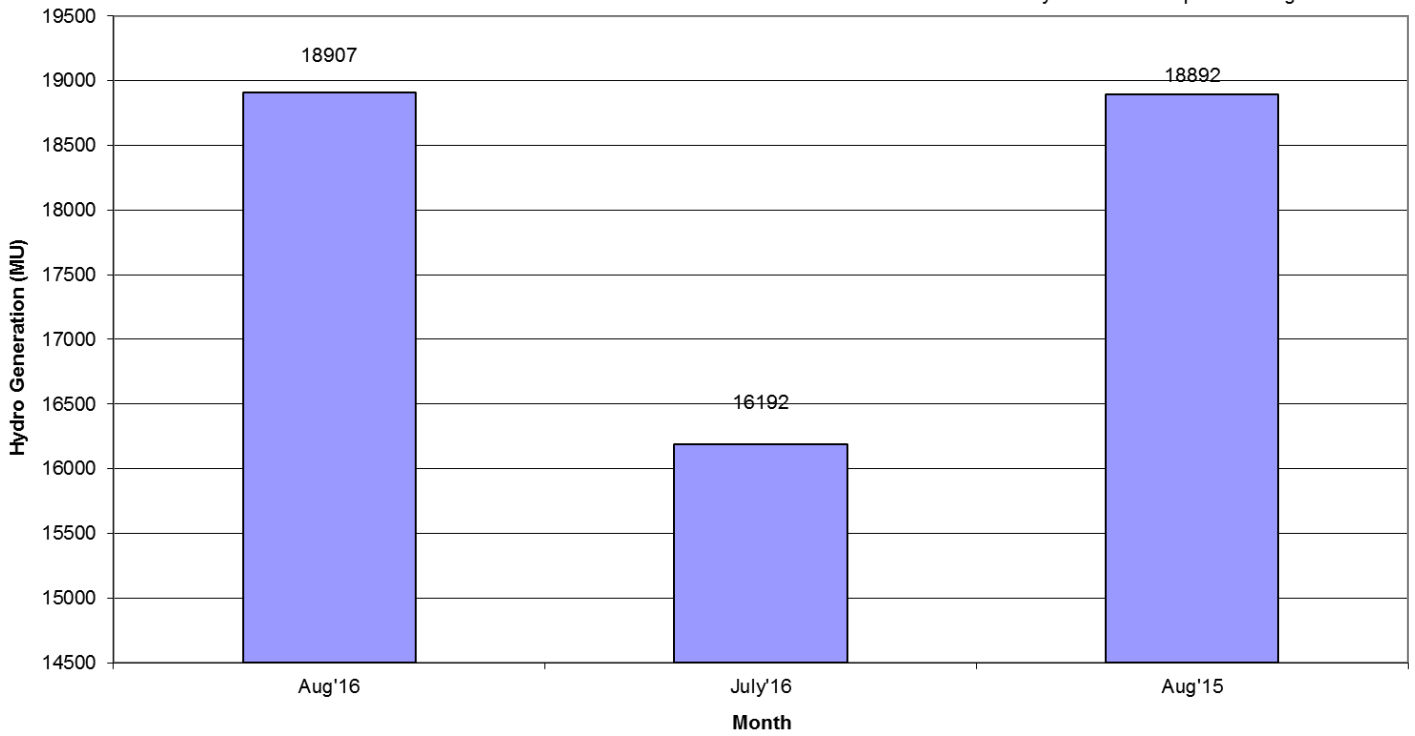
Average Energy (MU/day)

Increased by 1.38% as compared to July 2016
Increased by 1.50% as compared to Aug 2015



Hydro generation

Increased by 16.77% as compared to July 2016
Increased by 0.08% as compared to Aug 2015

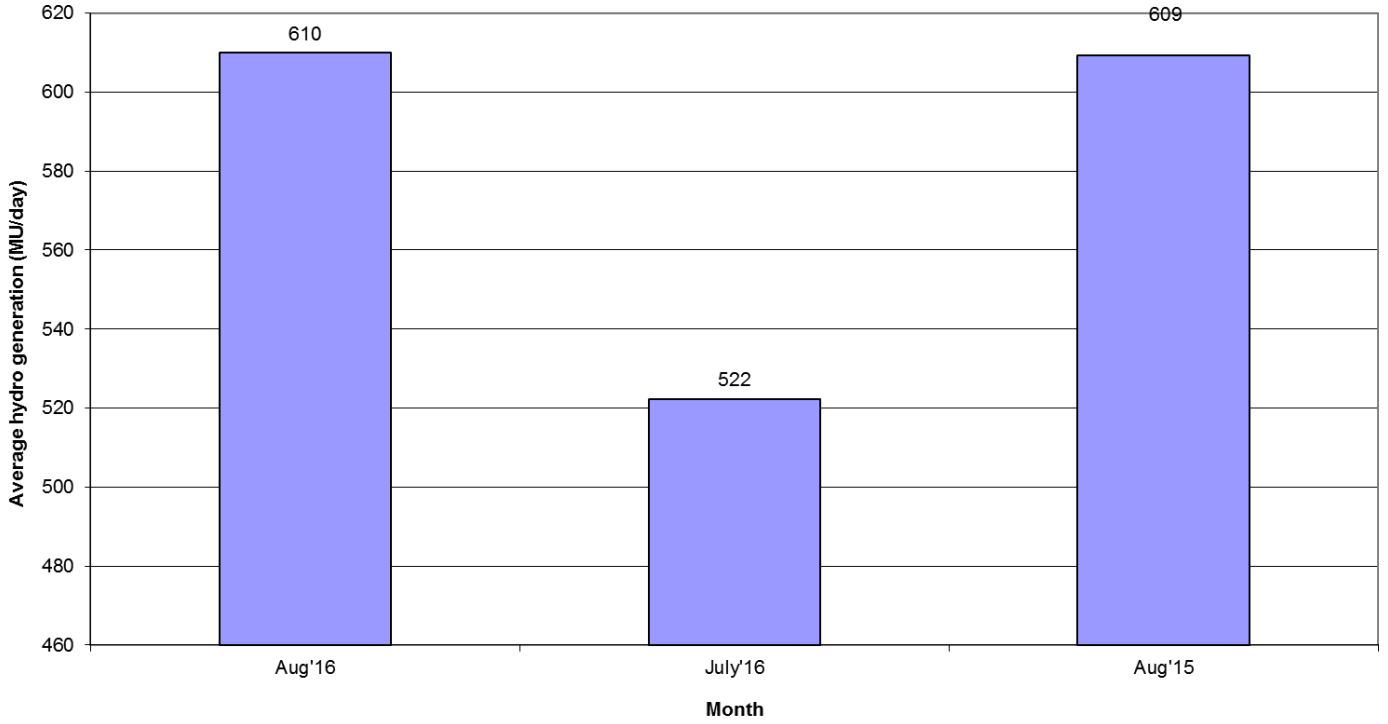


1. SUMMARY OF REPORT FOR THE MONTH OF AUGUST 2016

Average Hydro Generation

Increased by 16.77% as compared to July 2016

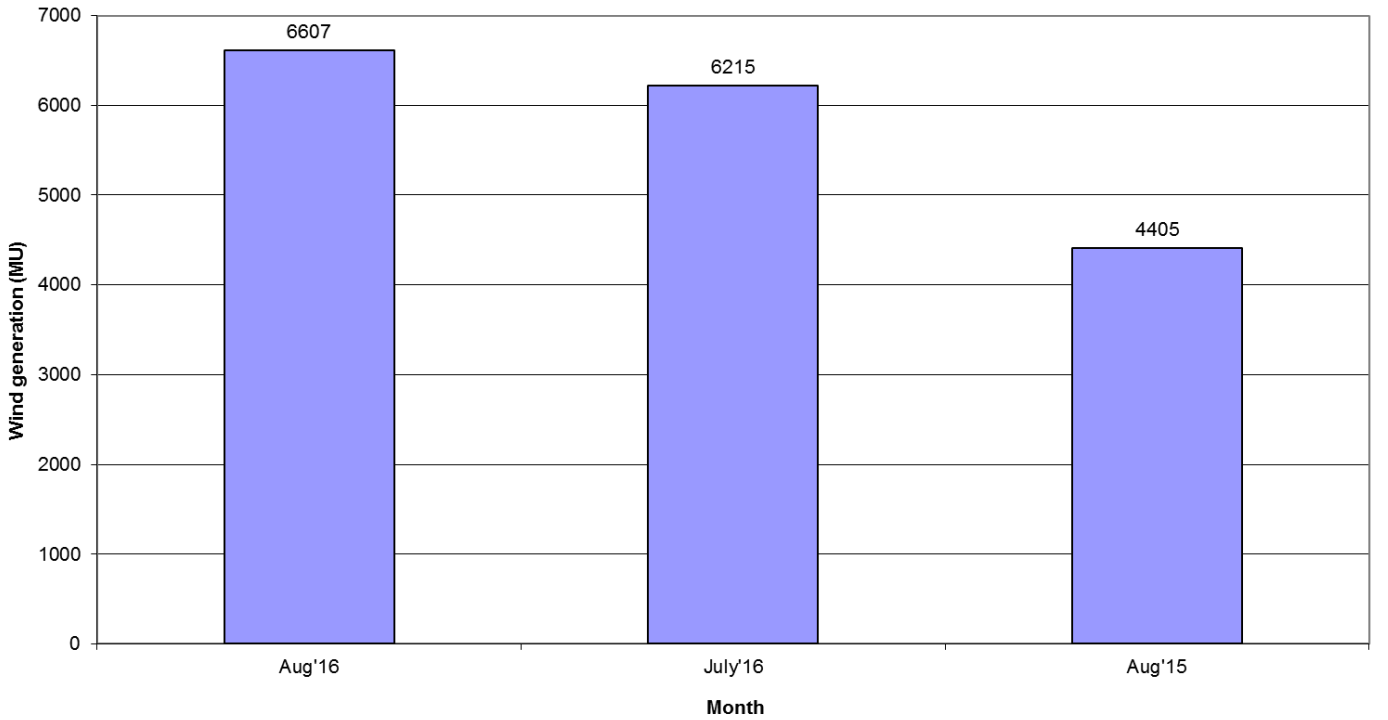
Increased by 0.08% as compared to Aug 2015



Wind Generation

Increased by 6.31% as compared to July 2016

Increased by 50.00% as compared to Aug 2015

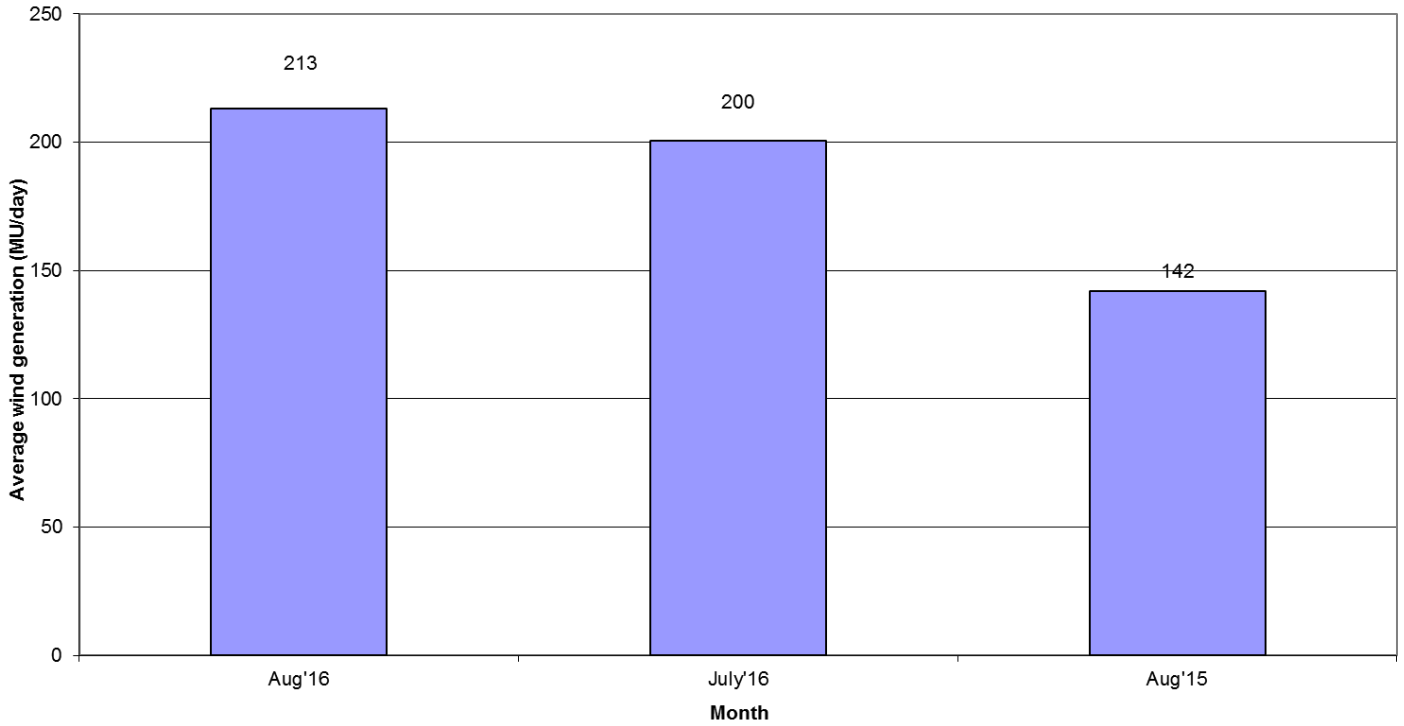


1. SUMMARY OF REPORT FOR THE MONTH OF AUGUST 2016

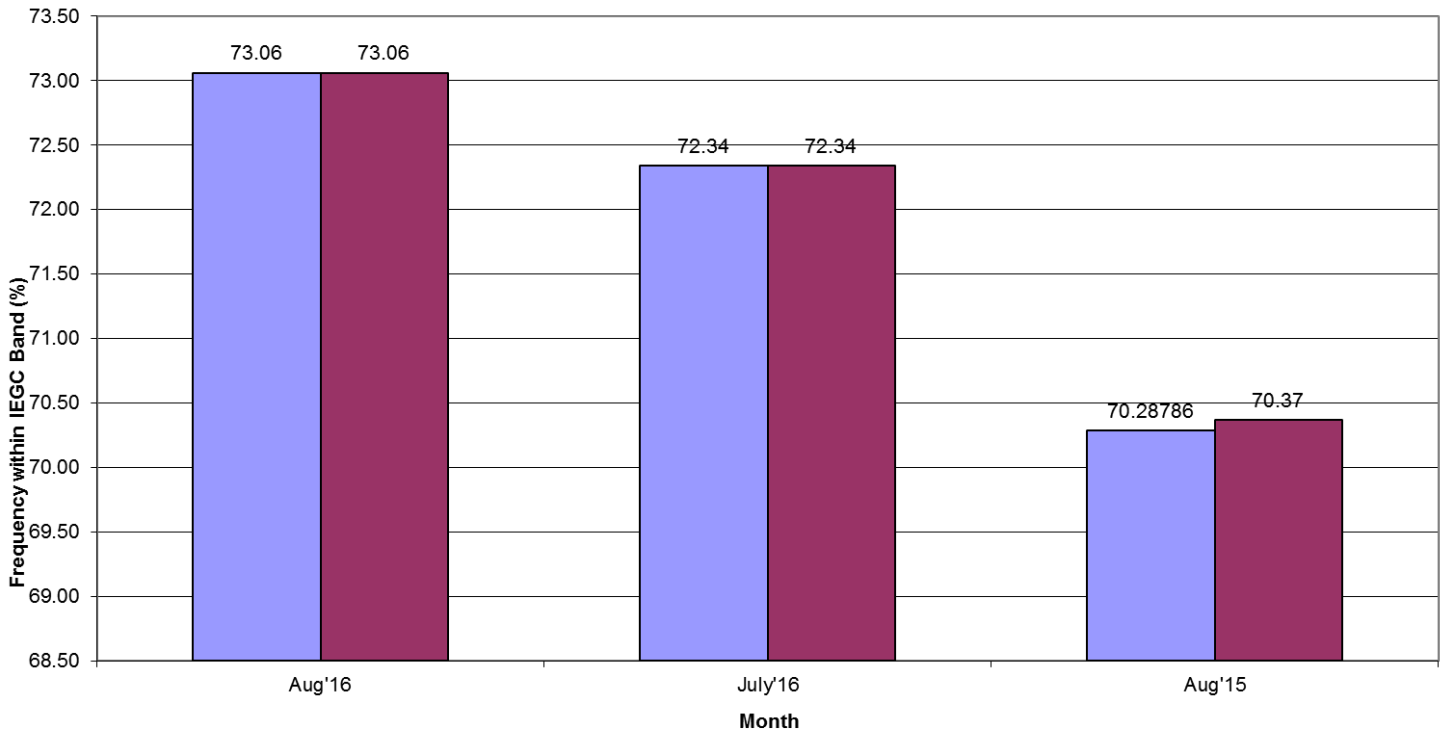
Average wind generation (MU/day)

Increased by 6.31 % as compared to July 2016

Increased by 50.00% as compared to Aug 2015



Frequency within IEGC Band



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

(2) ALL INDIA REGIONWISE INSTALLED CAPACITY

As on 31.08.2016
(All figures are in MW)

S No	Region	THERMAL				NUCLEAR	HYDRO	RES @ MNRE	GRAND TOTAL
		COAL	GAS	DIESEL	TOTAL				
1	NR	45865	5556	0	51421	1620	18312	8785	80138
2	WR	72753	11203	0	83956	1840	7448	15613	108857
3	SR	37043	6474	843	44359	2320	11598	19045	77322
4	ER	30623	100	0	30723	0	4369	519	35611
5	NER	310	1724	36	2070	0	1242	264	3576
6	ISLANDS	0	0	40	40	0	0	11	51
		186593	25057	919	212569	5780	42968	44237	305554

Remarks: Data from CEA website

3. राष्ट्रीय स्तर पर संध्याकालीन शिखर विद्युत मांग पूर्ति

PEAK DEMAND MET AT NATIONAL LEVEL

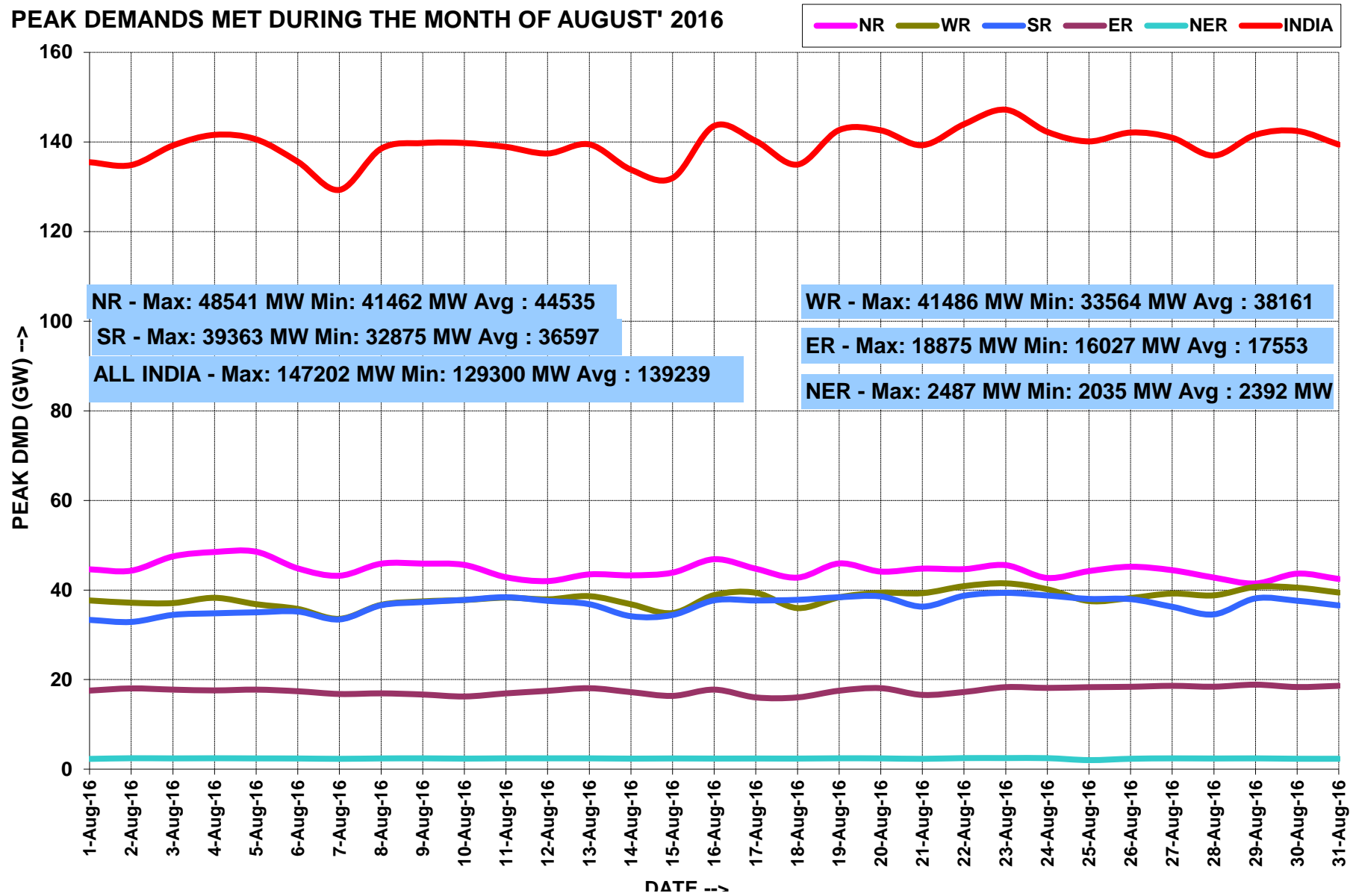
माह:-अगस्त 2016 MONTH:- August 2016

सभी आंकड़े मेगावाट में All figures in MW

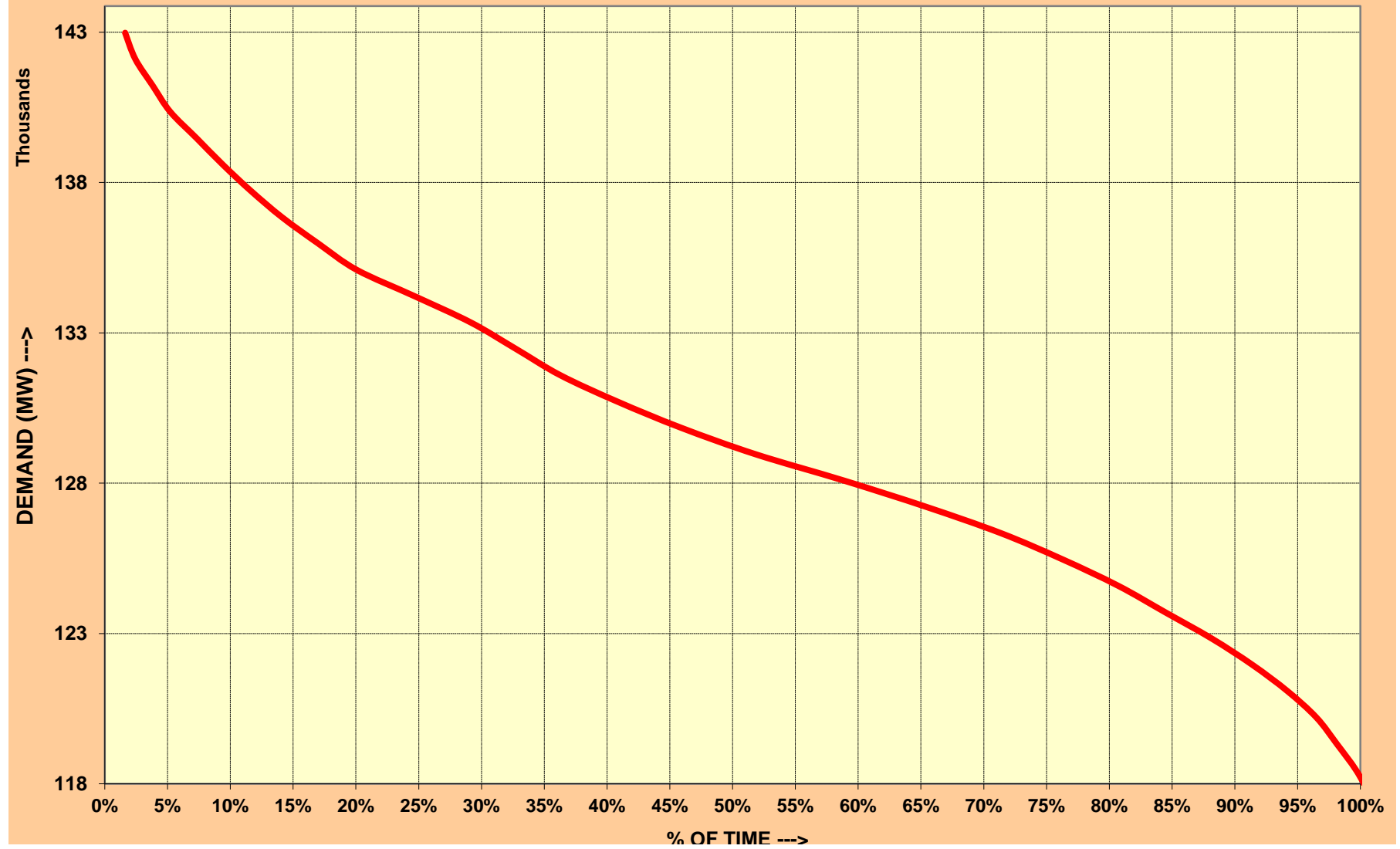
दिनांक Date	उत्तरी क्षे. NR	पश्चिमी क्षे. WR	दक्षिणी क्षे. SR	पूर्वी क्षे. ER	पूर्वोत्तर क्षे. NER	कुल TOTAL
01-Aug-16	44617	37670	33329	17552	2308	135476
02-Aug-16	44317	37162	32875	18037	2453	134844
03-Aug-16	47491	37084	34446	17767	2420	139208
04-Aug-16	48484	38258	34798	17591	2451	141583
05-Aug-16	48541	36833	35022	17766	2418	140581
06-Aug-16	44823	35772	35190	17403	2398	135586
07-Aug-16	43190	33564	33433	16790	2323	129300
08-Aug-16	45876	36690	36592	16932	2411	138500
09-Aug-16	45893	37461	37297	16675	2434	139760
10-Aug-16	45595	37771	37786	16237	2374	139763
11-Aug-16	42857	38299	38387	16929	2434	138906
12-Aug-16	41993	37919	37584	17495	2435	137426
13-Aug-16	43488	38627	36835	18080	2430	139460
14-Aug-16	43271	36817	34151	17208	2369	133816
15-Aug-16	43876	34860	34429	16373	2408	131946
16-Aug-16	46875	38868	37701	17766	2381	143591
17-Aug-16	44740	39382	37662	16027	2395	140206
18-Aug-16	42768	35968	37807	16030	2380	134953
19-Aug-16	45928	38365	38387	17530	2444	142654
20-Aug-16	44114	39393	38573	18090	2421	142590
21-Aug-16	44774	39297	36294	16589	2323	139277
22-Aug-16	44659	40863	38719	17239	2485	143965
23-Aug-16	45546	41486	39363	18320	2487	147202
24-Aug-16	42694	40166	38771	18148	2472	142251
25-Aug-16	44222	37541	38014	18314	2035	140126
26-Aug-16	45188	38212	37962	18399	2338	142099
27-Aug-16	44421	39217	36254	18614	2427	140933
28-Aug-16	42776	38807	34562	18417	2395	136957
29-Aug-16	41462	40697	38137	18875	2427	141598
30-Aug-16	43650	40516	37598	18345	2338	142447
31-Aug-16	42462	39435	36549	18616	2340	139402
उच्चतम MAXIMUM	48541	41486	39363	18875	2487	147202
निम्नतम MINIMUM	41462	33564	32875	16027	2035	129300
औसत AVERAGE	44535	38161	36597	17553	2392	139239
अब तक का उच्चतम All Time Max.	51086	47617	39363	18948	2492	147655
दिनांक Date	30.06.16	20.10.15	23.08.16	24.06.16	13.07.16	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 AUGUST' 2016



ALL INDIA LOAD DURATION CURVE FOR AUGUST' 2016



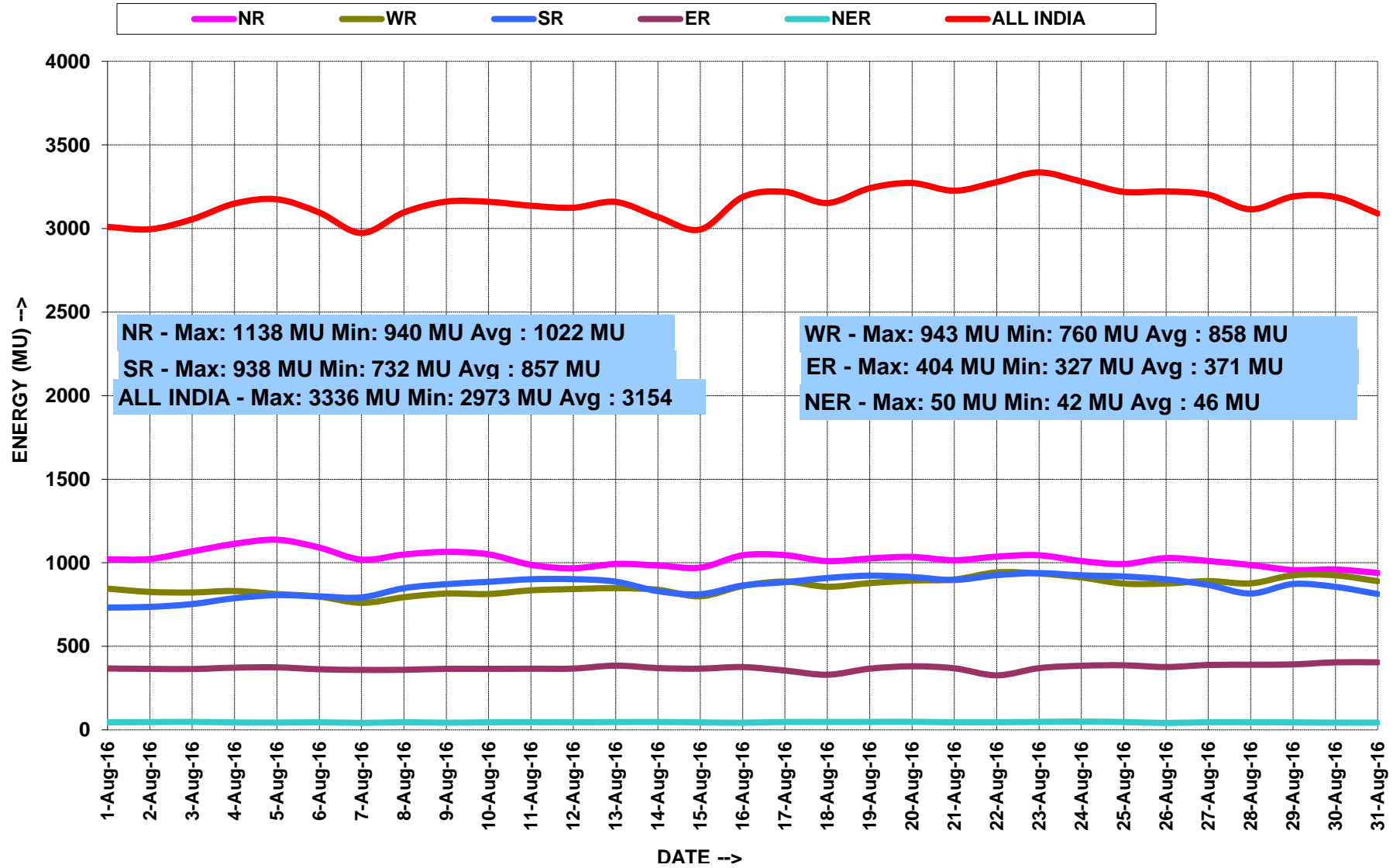
4. राष्ट्रीय स्तर पर विद्युत ऊर्जा आपूर्ति ENERGY MET AT NATIONAL LEVEL

माह:-अगस्त 2016 MONTH:- August 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-Aug-16	1020	845	732	368	45	3010
02-Aug-16	1023	826	736	365	47	2996
03-Aug-16	1069	822	753	364	48	3056
04-Aug-16	1114	831	788	372	45	3150
05-Aug-16	1138	813	806	374	44	3175
06-Aug-16	1091	798	799	363	45	3096
07-Aug-16	1019	760	793	359	42	2973
08-Aug-16	1050	794	848	360	46	3097
09-Aug-16	1065	816	872	365	43	3161
10-Aug-16	1050	813	886	365	45	3160
11-Aug-16	988	835	901	366	46	3137
12-Aug-16	967	843	902	367	46	3125
13-Aug-16	993	848	887	385	47	3159
14-Aug-16	984	838	830	370	47	3069
15-Aug-16	971	800	812	367	45	2994
16-Aug-16	1045	861	864	376	43	3188
17-Aug-16	1046	887	884	355	47	3219
18-Aug-16	1010	857	909	330	47	3153
19-Aug-16	1026	878	923	366	48	3241
20-Aug-16	1035	893	915	380	48	3272
21-Aug-16	1015	900	897	368	45	3226
22-Aug-16	1037	943	926	327	46	3278
23-Aug-16	1045	936	938	370	48	3336
24-Aug-16	1011	912	925	384	50	3281
25-Aug-16	993	875	918	387	47	3219
26-Aug-16	1028	876	901	376	42	3222
27-Aug-16	1011	891	867	388	46	3203
28-Aug-16	987	877	816	390	46	3115
29-Aug-16	957	925	873	392	45	3191
30-Aug-16	960	925	856	404	43	3188
31-Aug-16	940	890	813	404	44	3090
कुल TOTAL	31684	26607	26570	11506	1414	97782
उच्चतम MAXIMUM	1138	943	938	404	50	3336
निम्नतम MINIMUM	940	760	732	327	42	2973
औसत AVERAGE	1022	858	857	371	46	3154
अब तक का उच्चतम All Time Max.	1208	1131	945	409	50	3407
दिनांक Date	30.06.16	20.10.15	28.04.16	20.04.16	24.08.16	03.05.16

ENERGY MET DURING THE MONTH OF AUGUST' 2016



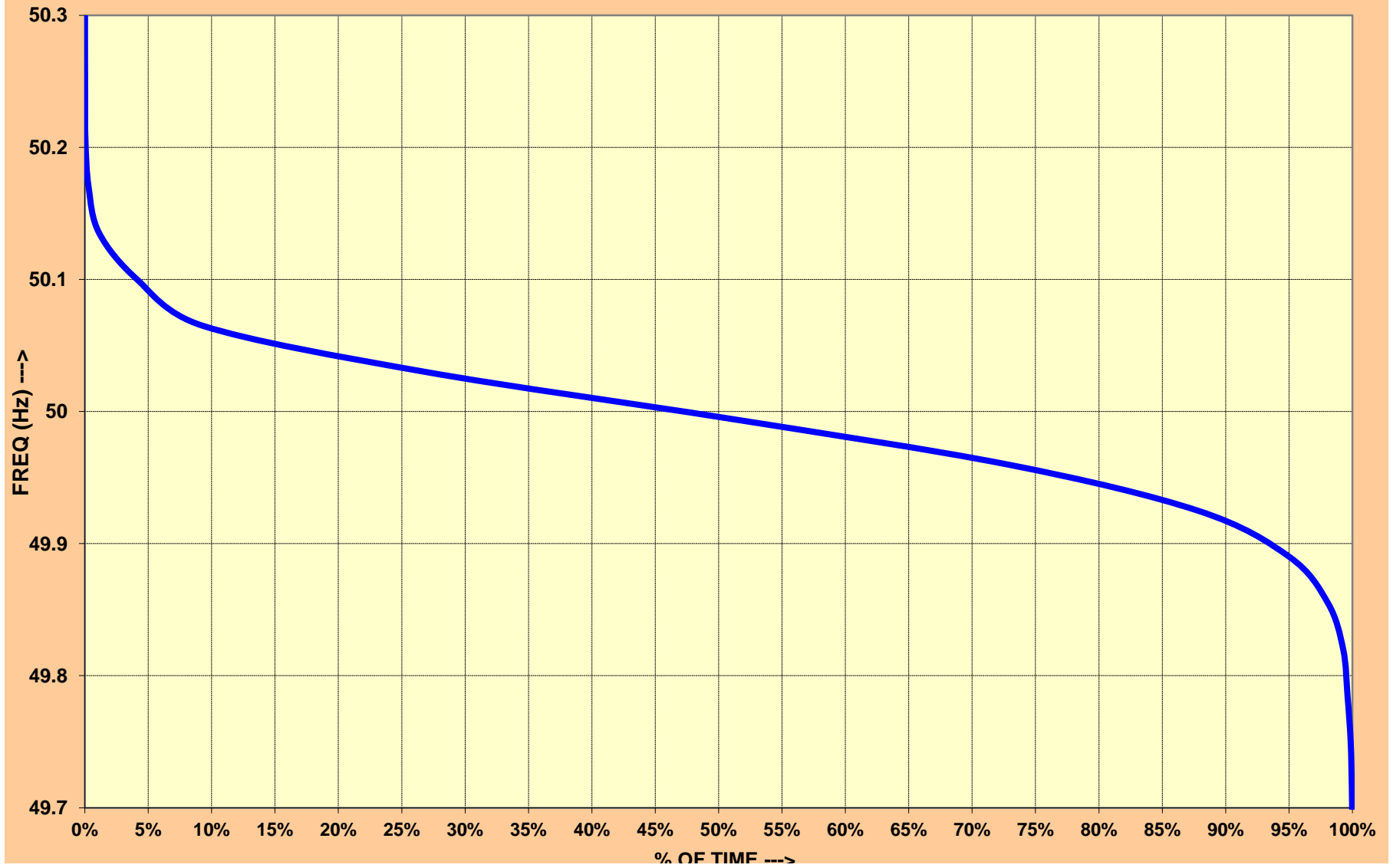
5.वर्ष 2016-17 के लिए आवृत्ति रूपरेखा FREQUENCY PROFILE FOR YEAR 2016-17

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	Aug-16	All India Grid	5.93	5.93	73.06	21.00	50.35	49.65	50.00
	Jul-16		3.94	3.94	72.34	23.72	50.35	49.69	50.01
	Jun-16		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 अगस्त 2016 के लिए आवृत्ति रूपरेखा FREQUENCY PROFILE FOR AUGUST 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-Aug-16	0.00	0.35	0.35	50.24	49.41	50.21	49.85	50.05
	02-Aug-16	0.00	0.01	0.01	59.77	40.22	50.24	49.90	50.04
	03-Aug-16	0.00	3.41	3.41	71.18	25.41	50.20	49.83	50.01
	04-Aug-16	0.00	4.62	4.62	75.20	20.19	50.15	49.80	50.00
	05-Aug-16	0.00	5.66	5.66	77.91	16.44	50.26	49.82	50.00
	06-Aug-16	0.00	4.66	4.66	72.62	22.72	50.22	49.83	50.01
	07-Aug-16	0.00	4.43	4.43	79.66	15.90	50.24	49.80	50.00
	08-Aug-16	0.00	5.47	5.47	76.44	18.09	50.16	49.81	50.00
	09-Aug-16	0.00	3.29	3.29	74.39	22.33	50.16	49.84	50.01
	10-Aug-16	0.00	1.64	1.64	72.66	25.69	50.35	49.85	50.01
	11-Aug-16	0.00	2.19	2.19	74.18	23.63	50.19	49.81	50.01
	12-Aug-16	0.00	9.11	9.11	78.94	11.96	50.17	49.71	49.98
	13-Aug-16	0.00	15.32	15.32	77.86	6.82	50.15	49.68	49.96
	14-Aug-16	0.00	3.76	3.76	73.69	22.55	50.21	49.80	50.01
	15-Aug-16	0.00	0.73	0.73	63.84	35.43	50.21	49.88	50.03
	16-Aug-16	0.00	6.62	6.62	68.09	25.29	50.16	49.76	50.00
	17-Aug-16	0.00	3.59	3.59	81.48	14.93	50.17	49.77	49.99
	18-Aug-16	0.00	5.64	5.64	72.21	22.15	50.22	49.78	50.00
	19-Aug-16	0.00	16.48	16.48	74.34	9.18	50.15	49.68	49.97
	20-Aug-16	0.00	20.25	20.25	71.72	8.02	50.19	49.73	49.96
	21-Aug-16	0.00	10.22	10.22	74.83	14.95	50.18	49.65	49.98
	22-Aug-16	0.00	10.69	10.69	78.00	11.31	50.18	49.65	49.97
	23-Aug-16	0.00	21.46	21.46	69.90	8.65	50.20	49.76	49.95
	24-Aug-16	0.00	6.28	6.28	70.54	23.17	50.20	49.71	50.00
	25-Aug-16	0.00	2.63	2.63	76.24	21.13	50.21	49.81	50.01
	26-Aug-16	0.00	6.10	6.10	76.50	17.40	50.21	49.74	50.00
	27-Aug-16	0.00	3.21	3.21	76.71	20.08	50.20	49.79	50.00
	28-Aug-16	0.00	1.46	1.46	79.03	19.51	50.24	49.84	50.01
	29-Aug-16	0.00	2.95	2.95	73.41	23.63	50.21	49.80	50.01
	30-Aug-16	0.00	0.95	0.95	70.21	28.84	50.21	49.84	50.02
	31-Aug-16	0.00	0.79	0.79	73.22	26.00	50.22	49.82	50.02

ALL INDIA FREQUENCY DURATION CURVE FOR AUGUST' 2016



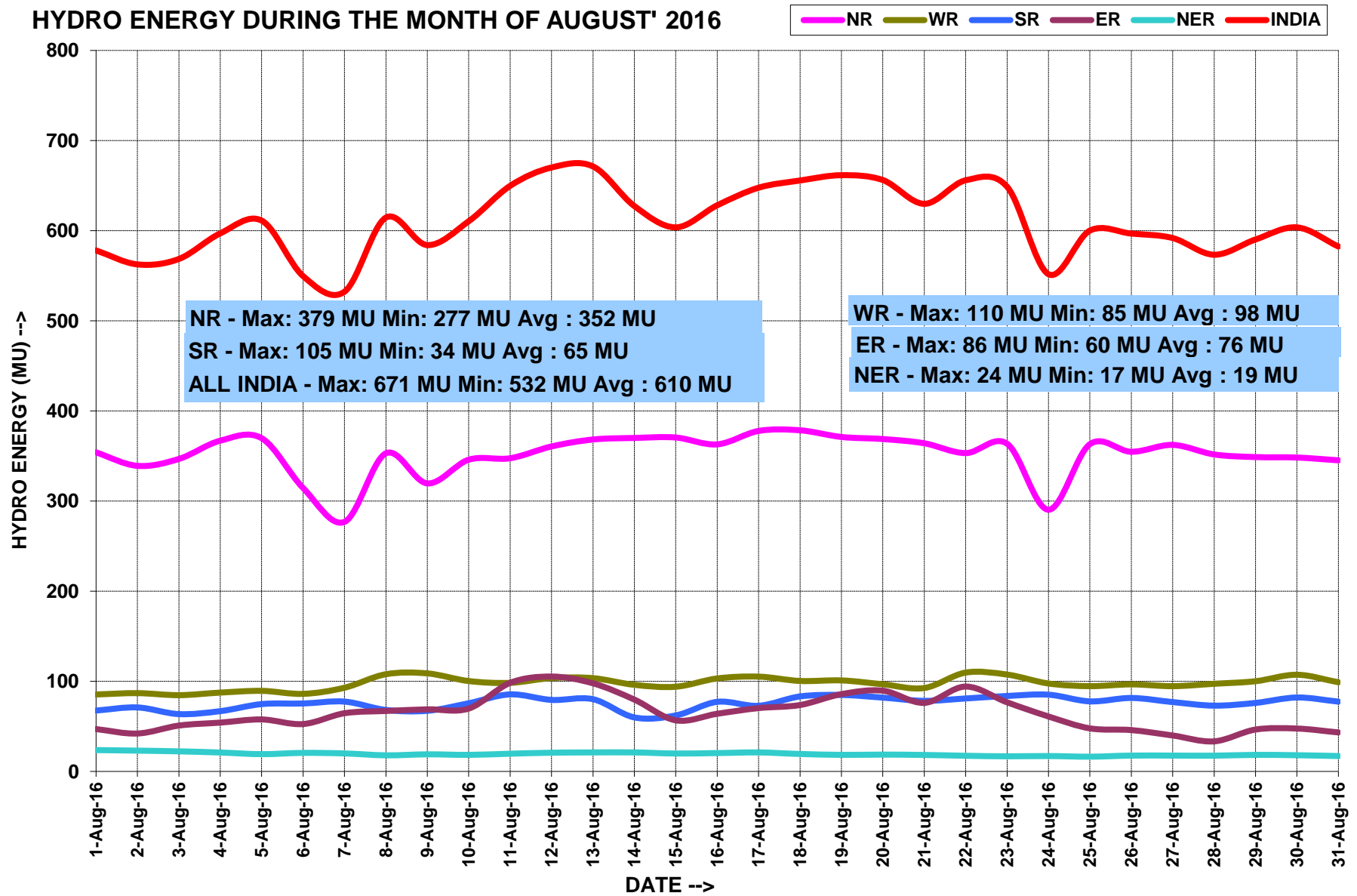
6.राष्ट्रीय स्तर पर जल विद्युत उत्पादन
HYDRO GENERATION AT NATIONAL LEVEL

माह:-अगस्त 2016 MONTH:- August 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-Aug-16	354	86	47	68	24	578
02-Aug-16	339	87	42	71	23	563
03-Aug-16	347	85	51	64	22	569
04-Aug-16	367	88	54	67	21	597
05-Aug-16	370	90	58	75	19	611
06-Aug-16	315	86	53	75	21	550
07-Aug-16	277	93	65	78	20	532
08-Aug-16	353	108	67	68	18	615
09-Aug-16	320	109	69	67	19	584
10-Aug-16	346	100	70	76	19	611
11-Aug-16	348	98	98	86	20	650
12-Aug-16	361	104	105	79	21	670
13-Aug-16	368	104	98	80	21	671
14-Aug-16	370	96	80	60	21	627
15-Aug-16	371	94	57	62	20	604
16-Aug-16	363	103	64	77	21	628
17-Aug-16	378	105	70	73	21	648
18-Aug-16	379	101	74	83	20	656
19-Aug-16	371	101	86	85	19	662
20-Aug-16	369	97	90	82	19	656
21-Aug-16	364	93	76	78	18	630
22-Aug-16	353	110	94	81	18	656
23-Aug-16	364	108	77	84	17	649
24-Aug-16	291	98	61	85	17	552
25-Aug-16	363	95	48	78	17	600
26-Aug-16	355	97	46	82	18	597
27-Aug-16	362	95	40	77	18	592
28-Aug-16	352	97	34	73	18	573
29-Aug-16	349	100	47	76	19	590
30-Aug-16	348	107	48	82	18	604
31-Aug-16	345	99	43	78	17	583
कुल TOTAL	10911	3032	2012	2351	601	18907
उच्चतम MAXIMUM	379	110	105	86	24	671
निम्नतम MINIMUM	277	85	34	60	17	532
औसत AVERAGE	352	98	65	76	19	610
अब तक का उच्चतम All Time Max.	389	167	202	94	29	712
दिनांक Date	18.08.15	18.12.14	09.08.13	09.09.14	27.08.15	27.08.13

HYDRO ENERGY DURING THE MONTH OF AUGUST' 2016



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

माह:-अगस्त 2016

MONTH:- August 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-Aug-16	32	109	123	-----	-----	263
02-Aug-16	17	114	132	-----	-----	263
03-Aug-16	8	98	150	-----	-----	256
04-Aug-16	3	91	148	-----	-----	242
05-Aug-16	2	89	151	-----	-----	242
06-Aug-16	3	95	155	-----	-----	253
07-Aug-16	5	103	140	-----	-----	248
08-Aug-16	3	83	131	-----	-----	217
09-Aug-16	10	101	138	-----	-----	249
10-Aug-16	10	108	136	-----	-----	254
11-Aug-16	13	87	121	-----	-----	221
12-Aug-16	16	71	109	-----	-----	196
13-Aug-16	20	76	125	-----	-----	221
14-Aug-16	30	86	138	-----	-----	253
15-Aug-16	33	109	138	-----	-----	280
16-Aug-16	35	119	154	-----	-----	308
17-Aug-16	24	98	145	-----	-----	267
18-Aug-16	9	64	135	-----	-----	208
19-Aug-16	16	83	122	-----	-----	221
20-Aug-16	15	107	90	-----	-----	212
21-Aug-16	8	90	92	-----	-----	190
22-Aug-16	7	74	87	-----	-----	167
23-Aug-16	9	76	115	-----	-----	200
24-Aug-16	6	65	111	-----	-----	182
25-Aug-16	6	49	116	-----	-----	170
26-Aug-16	5	39	101	-----	-----	144
27-Aug-16	2	27	114	-----	-----	143
28-Aug-16	9	20	115	-----	-----	144
29-Aug-16	2	23	117	-----	-----	142
30-Aug-16	5	31	89	-----	-----	124
31-Aug-16	7	42	80	-----	-----	129
कुल TOTAL	367	2425	3815	-----	-----	6607
उच्चतम MAXIMUM	35	119	155	-----	-----	308
निम्नतम MINIMUM	2	20	80	-----	-----	124
औसत AVERAGE	12	78	123	-----	-----	213
अब तक का उच्चतम All Time Max.	41	140	155	310
दिनांक Date	06.07.16	15.06.16	11.07.16	15.06.16

8. ACTUAL POWER SUPPLY POSITION - Aug 2016

REGION	STATE	Requirement/Availability in MU/DAY			Requirement/Availability in MU				Peak Demand/Peak Met in MW			
		Requirement	Energy met	Surplus(+)/Deficit(-)	Requirement	Energy met	Surplus(+)/Deficit(-)	% Shortage	Requirement	Peak Demand Met	Surplus(+)/Deficit(-)	% Shortage
NR	Chandigarh	5.6	5.6	0.0	172.1	172.1	0.0	0.0	350	350	0	0.0
	Delhi	101.7	101.6	0.0	3152.1	3150.8	-1.2	0.0	5637	5637	0	0.0
	Haryana	161.6	161.4	-0.2	5009.6	5002.4	-7.2	-0.1	9209	8984	-225	-2.4
	H.P.	25.1	24.9	-0.2	779.0	772.7	-6.3	-0.8	1293	1293	0	0.0
	J&K	42.6	34.1	-8.5	1320.5	1057.1	-263.4	-19.9	2367	2008	-359	-15.2
	Punjab	200.7	200.7	0.0	6221.6	6221.6	0.0	0.0	11228	11228	0	0.0
	Rajasthan	160.8	160.1	-0.6	4984.1	4964.1	-20.0	-0.4	8142	8142	0	0.0
	U.P.	297.9	295.5	-2.3	9233.8	9161.2	-72.5	-0.8	14690	14690	0	0.0
	Uttarakhand	37.8	37.5	-0.2	1171.0	1163.8	-7.2	-0.6	1963	1888	-75	-3.8
NFF/Railway	2.3	2.3	0.0	70.4	70.4	0.0	0.0	122	122	0	0.0	
TOTAL	1035.9	1023.7	-12.2	32114.2	31736.2	-377.9	-1.2	51426	50081	-1345	-2.6	
WR	Gujarat	250.3	250.3	0.0	7758.9	7758.9	0.0	0.0	12932	12932	0	0.0
	Madhya Pradesh	134.2	134.1	0.0	4159.3	4157.8	-1.5	0.0	7043	7043	0	0.0
	Chhattisgarh	75.0	74.8	-0.2	2324.3	2317.6	-6.8	-0.3	4020	3999	-21	-0.5
	Maharashtra	367.9	367.8	0.0	11403.4	11402.4	-1.0	0.0	19118	19105	-13	-0.1
	Goa	8.7	8.7	0.0	270.5	270.2	-0.3	-0.1	492	491	-1	-0.2
	D&D	6.6	6.6	0.0	205.1	205.1	0.0	0.0	321	321	0	0.0
	DNH	16.4	16.4	0.0	509.9	509.9	0.0	0.0	759	759	0	0.0
	ESIL	10.7	10.7	0.0	330.2	330.2	0.0	0.0	823	823	0	0.0
TOTAL	869.7	869.4	-0.3	26961.6	26952.0	-9.6	0.0	41861	41642	-219	-0.5	
SR	Andhra Pradesh	157.1	157.1	0.0	4869.8	4869.8	0.0	0.0	7962	7960	-2	0.0
	Telangana	160.5	160.5	0.0	4976.2	4976.2	0.0	0.0	7949	7945	-4	-0.1
	KPTCL	172.2	172.2	0.0	5339.4	5339.4	0.0	0.0	9218	9218	0	0.0
	KSEB	63.4	63.4	0.0	1964.3	1964.4	0.0	0.0	3535	3532	-2	-0.1
	TNEB	297.0	297.0	0.0	9207.2	9207.2	0.0	0.0	14431	14427	-4	0.0
	PONDICHERRY	7.0	7.0	0.0	216.6	216.6	0.0	0.0	359	359	0	0.0
TOTAL	857.2	857.2	0.0	26573.5	26573.5	0.0	0.0	41569	41432	-137	-0.3	
ER	Bihar	70.5	70.1	-0.4	2185.0	2172.6	-12.4	-0.6	3600	3538	-62	-1.7
	JSEB	24.2	21.4	-2.7	750.0	664.9	-85.1	-11.3	1200	1162	-38	-3.2
	DVC	54.0	58.5	4.5	1675.0	1813.4	138.4	8.3	2702	2748	46	1.7
	Odisha	82.8	77.3	-5.6	2567.0	2394.8	-172.2	-6.7	4300	4206	-94	-2.2
	West Bengal	158.5	154.9	-3.7	4915.0	4801.4	-113.6	-2.3	8220	8446	226	2.7
	Sikkim	1.1	1.0	0.0	33.0	32.2	-0.8	-2.5	85	82	-3	-3.5
	TOTAL	391.1	383.2	-7.9	12125.0	11879.3	-245.7	-2.0	19521	18900	-621	-3.2
NER	Arunachal Pradesh	2.3	2.2	0.0	70.0	69.0	-1.0	-1.5	149	140	-9	-6.0
	Assam	31.3	28.7	-2.6	970.6	890.3	-80.3	-8.3	1658	1633	-25	-1.5
	Manipur	2.0	2.0	0.0	62.8	62.7	0.0	0.0	145	145	0	0.0
	MeSEB	4.3	4.3	0.0	134.6	134.6	0.0	0.0	296	296	0	0.0
	Mizoram	1.3	1.3	0.0	40.9	40.9	0.0	0.0	83	81	-2	-2.4
	Nagaland	2.2	2.1	-0.1	68.6	66.5	-2.1	-3.0	117	116	-1	-0.9
	Tripura	3.9	3.8	-0.1	121.1	118.0	-3.1	-2.6	266	266	0	-0.1
TOTAL	47.4	44.6	-2.8	1469	1382	-86.6	-5.9	2714	2677	-37	-1.4	
ALL INDIA	3201.4	3178.2	-23.2	99242.8	98523.0	-719.8	-0.7	157091	154732	-2359	-1.5	

9. ENERGY COMPARISON OF AUGUST 2016 vs AUGUST 2015

REGION	STATE	Energy Requirement (MU)					Energy Met (MU)				
		Aug-15	Aug-16	Difference	% Change	Average MU/day for Aug-16	Aug-15	Aug-16	Difference	% Change	Average for MU/day for Aug-16
NR	Chandigarh	171	172	1	0	6	171	172	1	0	6
	Delhi	3073	3152	79	3	102	3072	3151	79	3	102
	Haryana	5014	5010	-5	0	162	5013	5002	-10	0	161
	H.P.	785	779	-6	-1	25	776	773	-3	0	25
	J&K	1313	1321	7	1	43	1061	1057	-4	0	34
	Punjab	6185	6222	36	1	201	6185	6222	36	1	201
	Rajasthan	5601	4984	-617	-11	161	5592	4964	-628	-11	160
	U.P.	10030	9234	-796	-8	298	8601	9161	560	7	296
	Uttarakhand	1141	1171	30	3	38	1113	1164	51	5	38
	NFF/Railway	67	70	3	5	2	67	70	3	5	2
	TOTAL	33381	32114	-1267	-4	1036	31652	31736	85	0	1024
WR	Gujarat	8457	7759	-698	-8	250	8448	7759	-689	-8	250
	Madhya Pradesh	4370	4159	-211	-5	134	4463	4158	-305	-7	134
	Chhattisgarh	2433	2324	-109	-4	75	2389	2318	-71	-3	75
	Maharashtra	11798	11403	-395	-3	368	11776	11402	-374	-3	368
	Goa	250	270	21	8	9	220	270	50	23	9
	D&D	198	205	8	4	7	198	205	8	4	7
	DNH	489	510	21	4	16	487	510	23	5	16
	ESIL	198	330	133	67	11	197	330	134	68	11
	TOTAL	28193	26962	-1231	-4	870	28177	26952	-1225	-4	869
SR	Andhra Pradesh	4302	4870	567	13	157	4301	4870	569	13	157
	Telangana	4399	4976	577	13	161	4398	4976	579	13	161
	KPTCL	5468	5339	-129	-2	172	5008	5339	331	7	172
	KSEB	1893	1964	72	4	63	1884	1964	81	4	63
	TNEB	8535	9207	672	8	297	8531	9207	676	8	297
	PONDY	203	217	14	7	7	203	217	14	7	7
		TOTAL	24801	26574	1773	7	857	24324	26574	2249	9
ER	Bihar	2019	2185	166	8	70	1934	2173	238	12	70
	JSEB	701	750	49	7	24	696	665	-31	-4	21
	DVC	1803	1675	-128	-7	54	1799	1813	15	1	58
	Odisha	2286	2567	281	12	83	2286	2395	108	5	77
	West Bengal	4646	4915	269	6	159	4632	4801	169	4	155
	Sikkim	25	33	8	31	1	25	32	7	27	1
		TOTAL	11481	12125	644	6	391	11373	11879	506	4
NER	Arunachal Pradesh	56	70	14	25	2	55	69	14	26	2
	Assam	817	971	154	19	31	721	890	169	23	29
	Manipur	68	63	-6	-8	2	67	63	-5	-7	2
	MeSEB	156	135	-22	-14	4	154	135	-19	-12	4
	Mizoram	39	41	2	5	1	39	41	2	6	1
	Nagaland	66	69	2	4	2	66	67	1	2	2
	Tripura	108	121	13	12	4	106	118	12	12	4
		TOTAL	1311	1469	158	12	47	1207	1382	175	14
	ALL INDIA	99166	99243	77	0	3201	96733	98523	1790	2	3178

10. DEMAND COMPARISON OF AUGUST 2016 vs AUGUST 2015

REGION	STATE	Peak Requirement (MW)				Peak Met (MW)			
		Aug-15	Aug-16	Difference	% Change	Aug-15	Aug-16	Difference	% Change
NR	Chandigarh	330	350	20	6.1	330	350	20	6.1
	Delhi	5438	5637	199	3.7	5434	5637	203	3.7
	Haryana	8871	9209	338	3.8	8871	8984	113	1.3
	H.P.	1312	1293	-19	-1.4	1312	1293	-19	-1.4
	J&K	2658	2367	-291	-10.9	2127	2008	-119	-5.6
	Punjab	10307	11228	921	8.9	10307	11228	921	8.9
	Rajasthan	10080	8142	-1938	-19.2	10080	8142	-1938	-19.2
	U.P.	15144	14690	-454	-3.0	12929	14690	1761	13.6
	Uttarakhand	1928	1963	35	1.8	1853	1888	35	1.9
	NFF/Railway	100	122	22	22.0	100	122	22	22.0
WR	Gujarat	14901	12932	-1969	-13	14870	12932	-1938	-13.0
	Madhya Pradesh	7750	7043	-707	-9	7743	7043	-700	-9.0
	Chhattisgarh	3784	4020	236	6	3656	3999	343	9.4
	Maharashtra	19075	19118	43	0	18951	19105	154	0.8
	Goa	422	492	70	17	393	491	98	24.9
	D&D	304	321	17	5.6	304	321	17	5.6
	DNH	719	759	40	5.6	719	759	40	5.6
	ESIL	466	823	357	76.6	466	823	357	76.6
SR	Andhra Pradesh	6502	7962	1460	22.5	6500	7960	1460	22.5
	Telangana	6589	7949	1360	20.6	6589	7945	1356	20.6
	KPTCL	8228	9218	990	12.0	8208	9218	1010	12.3
	KSEB	3435	3535	100	2.9	3426	3532	106	3.1
	TNEB	13757	14431	674	4.9	13658	14427	769	5.6
	PONDY	335	359	24	7.2	335	359	24	7.2
ER	Bihar	3303	3600	297	9.0	3088	3538	450	14.6
	JSEB	1136	1200	64	5.6	1136	1162	26	2.3
	DVC	2711	2702	-9	-0.3	2711	2748	37	1.4
	Odisha	4079	4300	221	5.4	4079	4206	127	3.1
	West Bengal	7522	8220	698	9.3	7496	8446	950	12.7
	Sikkim	84	85	1	1.2	84	82	-2	-2.4
NER	Arunachal Pradesh	116	149	33	28.4	115	140	25	21.7
	Assam	1416	1658	242	17.1	1330	1633	303	22.8
	Manipur	150	145	-5	-3.3	148	145	-3	-2.0
	MeSEB	322	296	-26	-8.1	322	296	-26	-8.1
	Mizoram	85	83	-2	-2.4	84	81	-3	-3.6
	Nagaland	133	117	-16	-12.0	132	116	-16	-12.1
	Tripura	262	266	4	1.6	261	266	5	1.7

11. SCHEDULE AND DRAWAL OF CONSTITUENTS - August 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	190.89	195.57	4.68	2.45	6.16	6.31	0.15
	Delhi	2552.43	2551.88	-0.55	-0.02	82.34	82.32	-0.02
	Haryana	4356.82	4239.98	-116.83	-2.68	140.54	136.77	-3.77
	H.P.	-35.43	-10.25	25.18	-71.07	-1.14	-0.33	0.81
	J&K	461.05	429.87	-31.18	-6.76	14.87	13.87	-1.01
	Punjab	3773.08	3762.21	-10.87	-0.29	121.71	121.36	-0.35
	Rajasthan	2115.18	2133.54	18.36	0.87	68.23	68.82	0.59
	U.P.	4784.31	4812.56	28.25	0.59	154.33	155.24	0.91
	Uttarakhand	510.55	524.71	14.16	2.77	16.47	16.93	0.46
	NFF/Railway	58.21	70.36	12.14	20.86	1.88	2.27	0.39
WR	Gujarat	1790.10	1731.29	-58.80	-3.28	57.75	55.85	-1.90
	Madhya Pradesh	1790.10	1731.29	-58.80	-3.28	57.75	55.85	-1.90
	Maharashtra	3346.76	3391.08	44.32	1.32	107.96	109.39	1.43
	Chhattisgarh	719.63	772.23	52.60	7.31	23.21	24.91	1.70
	Goa	232.32	252.15	19.83	8.53	7.49	8.13	0.64
	D&D	198.27	205.12	6.85	3.46	6.40	6.62	0.22
	D&NH	518.12	509.87	-8.26	-1.59	16.71	16.45	-0.27
	ESIL	317.72	330.22	12.51	3.94	10.25	10.65	0.40
SR	Andhra Pradesh	489.84	562.16	72.32	14.76	15.80	18.13	2.33
	Telangana	3123.56	3155.27	31.71	1.02	100.76	101.78	1.02
	KPTCL	2022.67	2088.40	65.73	3.25	65.25	67.37	2.12
	KSEB	1461.14	1491.65	30.51	2.09	47.13	48.12	0.98
	TNEB	3349.99	3374.57	24.58	0.73	108.06	108.86	0.79
	PONDICHERRY	224.45	216.60	-7.85	-3.50	7.24	6.99	-0.25
ER	Bihar	2115.90	2122.60	6.71	0.32	68.25	68.47	0.22
	JSEB	489.89	470.33	-19.56	-3.99	15.80	15.17	-0.63
	DVC	-572.76	-555.58	17.19	-3.00	-18.48	-17.92	0.55
	GRIDCO	631.86	636.10	4.23	0.67	20.38	20.52	0.14
	WBSEB	1334.25	1427.39	93.14	6.98	43.04	46.04	3.00
	Sikkim	36.83	32.17	-4.67	-12.68	1.19	1.04	-0.15
NER	Arunachal Pradesh	59.65	68.96	9.31	15.61	1.92	2.22	0.30
	Assam	665.84	735.50	69.66	10.46	21.48	23.73	2.25
	Manipur	63.00	62.74	-0.25	-0.40	2.03	2.02	-0.01
	MeSEB	12.86	21.78	8.93	69.45	0.41	0.70	0.29
	Mizoram	30.93	36.99	6.07	19.61	1.00	1.19	0.20
	Nagaland	53.18	52.00	-1.19	-2.24	1.72	1.68	-0.04
	Tripura	106.71	132.02	25.30	23.71	3.44	4.26	0.82

12. INTER REGIONAL EXCHANGES 2016-17						
	April'16	May'16	June'16	July'16	Aug'16	Fin. Year 2016-17 (till Aug 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	1552.71	1581.52	8475.70
WR-NR 765 kV Gwalior - Phagi D/C	564.39	335.59	543.16	683.11	661.63	2787.88
WR - NR HVDC Vindhyachal	127.02	46.28	68.61	16.50	12.08	270.48
WR - NR 400 kV Zerda Kankroli	0.00	0.00	0.00	6.94	41.01	47.95
WR - NR 400 kV Zerda Bhinmal	0.53	0.00	0.00	14.67	48.89	64.08
WR - NR 220 kV Badod - Kota/ Modak	5.71	18.99	8.96	66.48	85.18	185.33
WR - NR 220 kV Auraiya - Malanpur/Mehgaon	3.00	1.33	9.69	1.27	4.04	19.33
WR - NR 400 kV Vindhyachal-Rihand	0.00	0.00	0.00	0.00	0.00	0.00
WR - NR HVDC Mundra - Mohindergarh	1712.21	1621.73	1598.96	1489.68	1402.69	7825.27
Total WR - NR	4323.20	3697.86	3986.55	3831.36	3837.04	19676.01
Import of NR from ER (ER-NR)						
ER - NR 765 kV Sasaram - Fatehpur	0.23	2.45	0.00	41.96	37.84	82.47
ER - NR 765 kV Gaya - Varanasi 2*5/C	155.61	69.65	92.50	300.77	346.88	965.42
ER - WR 765 kV Gaya - Balia	94.45	61.38	82.88	86.22	116.28	441.21
ER-NR 400 kV Patna - Balia 2xD/C	232.02	347.01	425.62	522.22	350.10	1876.97
ER - NR 400 kV Muzaffarpur - Gorakhpur D/C	52.88	106.93	226.36	318.70	264.26	969.13
ER - NR 400 kV Biharshariff - Balia D/C	94.07	53.79	90.69	113.13	132.89	484.58
ER - NR 400 kV Barh - G'pur D/C	210.89	277.55	310.57	338.52	292.75	1430.28
ER - NR 400 kV Biharshariff - Varanasi D/C	9.30	6.55	2.75	45.93	73.45	137.97
ER - NR HVDC Sasaram (Bypass)	128.99	190.08	146.20	87.40	68.26	620.94
ER - NR 220 kV Pusauli - Sahupuri	106.82	116.07	134.41	140.71	118.33	616.34
ER - NR 132 kV Sahupuri - Karamnasa	14.40	7.14	5.61	0.00	0.00	27.15
ER - NR 132 kV Rihand - Son Nagar	0.00	0.00	0.00	0.00	0.00	0.00
Total ER-NR	1099.66	1238.60	1517.58	1995.57	1801.05	7652.46
Import of NR from NER (NER-NR)						
NER-NR HVDC Biswanath Chariali - Agra	317.02	284.77	119.29	341.91	437.06	1500.05
Total NER - NR	317.02	284.77	119.29	341.91	437.06	1500.05
Export of NR to WR (NR-WR)						
NR - WR 765 kV Gwalior - Agra D/C	0.00	0.00	0.00	0.00	0.00	0.00
NR - WR 765 kV Gwalior - Phagi D/C	0.00	0.00	0.00	0.00	0.00	0.00
NR - WR HVDC Vindhyachal	12.39	85.56	66.01	157.74	233.59	555.27
NR - WR 400 kV Zerda Kankroli	137.71	140.87	159.62	58.91	3.86	500.97
NR - WR 400 kV Zerda Bhinmal	91.55	100.42	119.36	43.86	2.26	357.46
NR - WR 220 kV Badod - Kota/ Modak	12.38	9.08	11.04	3.30	0.00	35.80
NR - WR 220 kV Auraiya - Malanpur/Mehgaon	17.40	16.03	3.76	19.45	11.32	67.96
NR-WR 400 kV Rihand-Vindhyachal	0.00	0.00	0.00	0.00	0.00	0.00
NR - WR HVDC Mundra - Mohindergarh	0.00	0.00	0.00	0.00	0.00	0.00
Total NR - WR	271.43	351.95	359.79	283.25	251.02	1517.45
Export of NR to ER (NR-ER)						
NR - ER 765 kV Sasaram - Fatehpur	96.68	101.63	98.39	42.19	62.60	401.49
NR - ER 765 kV Gaya - Varanasi 2*5/C	2.36	9.16	18.94	0.00	0.00	30.45
NR - ER 765 kV Gaya - Balia	0.00	0.00	0.00	0.00	0.00	0.00
NR - ER 400 kV Patna - Balia 2xD/C	0.00	0.00	0.00	0.00	0.00	0.00
NR - ER 400 kV Muzaffarpur - Gorakhpur D/C	12.38	4.33	0.00	0.00	0.00	16.70
NR - ER 400 kV Biharshariff - Balia D/C	0.00	1.25	0.41	0.00	0.00	1.66
ER - NR 400 kV Barh - G'pur D/C	0.00	0.00	0.00	0.00	0.00	0.00
NR - ER 400 kV Biharshariff - Varanasi D/C	157.78	64.28	26.62	0.00	6.07	254.75
NR - ER HVDC Sasaram (Bypass)	3.72	13.23	4.62	79.53	56.55	157.66
NR - ER 220 kV Pusauli - Sahupuri	0.00	0.00	0.00	0.00	0.00	0.00
NR - ER 132 kV Sahupuri - Karamnasa	0.00	1.26	21.99	25.35	15.28	63.88
NR - ER 132 kV Rihand - Son Nagar	16.28	17.82	15.35	13.86	15.69	79.00
Total NR - ER	289.20	212.96	186.31	160.93	156.19	1005.59
Export of NR to NER (NER-NR)						
NR-NER HVDC Biswanath Chariali - Agra	0.00	0.00	1.25	0.00	0.00	1.25
Total NR - NER	0.00	0.00	1.25	0.00	0.00	1.25

Export of WR to ER (WR-ER)						
WR - ER 765 kV Ranchi - Dharamjaygarh 2xS/C	58.51	18.86	2.14	94.41	285.38	459.30
WR - ER 765 kV Dharamjaygarh - Jharsuguda D/C	0.00	0.00	0.00	0.86	4.01	4.87
WR - ER 400 kV Sipat - Ranchi D/C	163.93	99.07	74.53	33.78	156.36	527.67
WR - ER 400 kV Raigarh - Sterlite	14.64	19.53	6.38	33.03	18.19	91.77
WR - ER 400 kV Raigarh-Ind Bharat	54.26	13.84	28.20	28.57	53.55	178.42
WR - ER 400 kV Raigarh-Rourkela	55.15	20.19	24.15	37.03	74.80	211.32
WR - ER 400 kV Raigarh - Jharsuguda	77.26	19.59	44.54	44.96	73.04	259.39
WR - ER 220 kV Korba - Budhipadar D/C	77.56	74.65	5.19	7.28	10.37	175.05
WR - ER 220 kV Raigarh - Budhipadar	5.19	11.58	0.00	0.10	0.00	16.87
Total WR - ER	506.50	277.32	185.13	280.02	675.69	1924.66
Import of WR from ER (ER - WR)						
ER - WR 765 kV Ranchi - Dharamjaygarh 2xS/C	7.12	28.02	51.27	36.78	1.23	124.42
ER - WR 765 kV Dharamjaygarh - Jharsuguda D/C	476.40	392.09	364.14	344.16	220.45	1797.24
ER - WR 400 kV Sipat - Ranchi D/C	0.00	0.00	0.06	1.37	0.12	1.56
ER - WR 400 kV Raigarh - Sterlite	71.10	4.96	55.60	1.39	31.02	164.08
ER - WR 400 kV Raigarh-Ind Bharat	1.90	5.62	0.26	12.37	0.28	20.43
ER - WR 400 kV Raigarh-Rourkela	0.12	3.58	0.45	2.62	0.24	7.00
ER - WR 400 kV Raigarh - Jharsuguda	2.83	8.89	0.41	1.16	0.47	13.76
ER - WR 220 kV Korba - Budhipadar D/C	0.00	0.00	5.02	20.33	12.72	38.07
ER - WR 220 kV Raigarh - Budhipadar	9.20	7.63	62.93	70.86	77.57	228.19
Total ER - WR	568.67	450.79	540.15	491.05	344.10	2394.75
Export of ER to NER (ER - NER)						
ER - NER 400 kV Binaguri - Bongaigaon 2xD/C	351.64	206.60	56.22	90.77	350.95	1056.17
ER - NER 220 kV Birpara - Salakati D/C	37.77	28.43	29.34	53.94	87.32	236.81
Total ER - NER	389.41	235.03	85.56	144.71	438.27	1292.99
Import of ER from NER (NER - ER)						
NER - ER 400 kV Binaguri - Bongaigaon 2xD/C	0.00	7.07	82.30	108.30	5.60	203.27
NER - ER 220 kV Birpara - Salakati D/C	0.00	0.26	0.00	0.11	0.01	0.37
Total NER - ER	0.00	7.33	82.30	108.41	5.60	203.64
Export of ER to SR (ER - SR)						
ER - SR HVDC Gazuwaka	302.43	355.83	358.74	384.11	408.09	1809.20
ER - SR HVDC Talchar - Kolar	1309.89	1296.20	1101.36	1159.40	1206.35	6073.20
Total ER - SR	1612.32	1652.03	1460.10	1543.51	1614.44	7882.40
Import of ER from SR (SR - ER)						
SR - ER HVDC Gazuwaka	0.00	0.00	0.00	0.00	0.00	0.00
SR - ER HVDC Talchar - Kolar	0.00	0.00	0.00	0.00	0.00	0.00
Total SR - ER	0.00	0.00	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	622.35	640.38	3133.12
WR - SR 765 kV Sholapur - Raichur	1345.88	1165.09	1006.32	1205.46	1227.59	5950.34
WR - SR 400KV Kolhapur-Kudgi D/C	41.69	50.95	23.80	58.51	106.98	281.92
Total WR - SR	2101.18	1856.88	1546.05	1886.32	1974.95	9365.38
Import of WR from SR (SR - WR)						
SR - WR HVDC Bhadravati	0.00	0.00	0.00	0.00	0.00	0.00
SR - WR 765 kV Raichur - Sholapur	0.00	4.47	4.47	0.03	0.03	9.00
SR - WR 400KV Kolhapur-Kudgi D/C	14.56	11.09	10.61	12.89	5.84	54.99
Total SR - WR	14.56	15.56	15.08	12.92	5.87	63.99
TOTAL ALL INDIA	11176	9996	9965	10738	11104	52979

12.1 Import of NR from WR, ER & NER during August 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 - Malanpur / 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 - WR 765 kV Gaya Ballia	ER-NR 400 kV Patna - Ballia 2x2/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 Chariall - Agra	Total NER-NR
1-Aug-16	56.08	24.26	0.00	2.09	2.36	3.26	0.75	0.00	39.78	128.58	1.56	14.92	4.23	13.02	10.74	5.63	10.33	4.55	0.00	4.38	0.00	0.00	69.34	11.87	11.87
2-Aug-16	54.89	23.06	0.38	2.05	3.12	3.34	1.24	0.00	43.82	131.90	2.05	14.73	4.33	14.11	11.16	6.83	11.31	4.52	0.00	4.67	0.00	0.00	73.69	11.01	11.01
3-Aug-16	58.33	25.16	0.55	2.57	2.71	4.51	0.82	0.00	45.55	140.20	2.42	15.70	4.78	12.14	4.44	7.08	11.84	4.38	0.00	4.80	0.00	0.00	67.58	11.80	11.80
4-Aug-16	61.57	27.27	0.00	3.09	3.30	4.10	0.00	0.00	51.91	151.23	3.29	15.50	3.62	14.54	4.13	6.77	10.95	4.50	0.00	2.57	0.00	0.00	65.88	11.82	11.82
5-Aug-16	57.12	24.73	0.00	3.78	3.92	3.06	0.00	0.00	53.19	145.78	3.09	14.34	3.76	9.73	9.55	5.03	11.53	3.54	0.00	4.83	0.00	0.00	65.39	14.30	14.30
6-Aug-16	55.27	19.24	2.22	2.78	3.06	3.09	0.00	0.00	54.02	139.67	2.19	13.60	4.32	14.88	9.90	6.65	11.62	3.51	0.00	4.57	0.00	0.00	71.25	18.58	18.58
7-Aug-16	56.46	20.44	0.89	3.18	3.27	4.07	0.00	0.00	47.68	135.99	2.13	13.38	5.24	13.33	9.44	7.82	11.10	3.40	0.00	4.62	0.00	0.00	70.45	18.50	18.50
8-Aug-16	53.16	20.21	2.19	0.82	1.70	3.32	0.00	0.00	49.49	130.89	2.88	12.93	3.88	12.79	8.57	5.47	10.55	2.84	0.00	4.20	0.00	0.00	64.11	13.40	13.40
9-Aug-16	57.62	24.67	1.67	0.00	0.00	2.69	0.02	0.00	52.22	138.89	2.16	14.88	4.54	15.59	10.05	6.90	11.11	3.99	0.00	4.52	0.00	0.00	73.72	11.34	11.34
10-Aug-16	52.87	22.97	1.88	0.04	0.00	1.85	0.00	0.00	55.62	135.23	1.56	13.22	3.77	13.33	10.04	6.64	10.22	3.18	0.00	3.46	0.00	0.00	65.42	9.07	9.07
11-Aug-16	50.50	20.19	0.00	0.00	0.00	2.49	0.00	0.00	42.94	116.11	1.40	12.05	3.48	13.05	10.42	4.88	10.28	3.34	0.00	0.00	0.00	0.00	58.89	11.45	11.45
12-Aug-16	46.83	20.29	0.00	0.00	0.00	2.21	0.00	0.00	39.95	109.28	1.90	11.10	3.69	12.21	9.60	4.41	10.46	2.96	0.00	0.00	0.00	0.00	56.31	14.50	14.50
13-Aug-16	47.07	20.61	0.00	1.27	1.05	2.90	0.00	0.00	37.72	110.63	2.37	10.62	4.49	12.14	11.10	6.00	9.51	4.01	0.00	0.00	0.00	0.00	60.23	6.82	6.82
14-Aug-16	42.79	20.60	0.00	1.78	1.41	3.48	0.00	0.00	36.32	106.38	2.37	10.54	3.90	12.24	11.10	4.61	9.51	2.44	0.00	3.64	0.00	0.00	60.34	11.32	11.32
15-Aug-16	38.58	16.67	0.00	1.50	1.19	3.65	0.00	0.00	29.10	90.69	0.00	9.09	3.49	11.48	7.99	4.40	9.71	2.08	0.00	4.09	0.00	0.00	52.33	11.57	11.57
16-Aug-16	41.50	18.06	0.00	2.67	2.19	4.45	0.00	0.00	40.15	109.01	1.41	10.55	3.56	10.21	11.43	5.74	8.09	3.58	0.51	4.35	0.00	0.00	59.43	12.61	12.61
17-Aug-16	43.14	17.11	0.00	2.45	2.19	3.33	0.00	0.00	44.09	112.30	1.76	10.50	3.30	10.71	10.20	5.53	8.37	3.78	0.00	4.47	0.00	0.00	58.63	12.61	12.61
18-Aug-16	38.03	15.42	0.00	1.78	2.19	3.20	0.59	0.00	36.82	98.04	1.76	10.50	3.35	9.67	7.66	4.56	9.14	3.78	0.00	3.05	0.00	0.00	53.47	22.30	22.30
19-Aug-16	41.46	17.91	0.00	1.95	3.11	3.81	0.15	0.00	34.95	103.35	1.55	8.82	2.93	10.82	5.82	3.34	9.34	1.48	0.00	2.78	0.00	0.00	46.87	22.87	22.87
20-Aug-16	49.36	19.61	0.20	2.39	3.57	4.90	0.47	0.00	36.60	117.10	0.00	10.61	3.14	11.55	5.35	2.69	9.21	1.31	1.69	3.70	0.00	0.00	49.26	23.13	23.13
21-Aug-16	50.87	22.24	0.00	2.39	2.49	4.82	0.00	0.00	38.69	121.48	0.00	9.04	3.14	11.55	7.47	2.69	7.96	0.40	6.04	4.43	0.00	0.00	52.72	17.77	17.77
22-Aug-16	50.29	21.91	0.00	0.07	0.92	3.05	0.00	0.00	54.54	130.78	0.00	11.49	2.81	12.35	9.66	4.17	8.90	2.57	5.42	3.94	0.00	0.00	61.29	17.22	17.22
23-Aug-16	47.45	22.69	0.00	0.22	0.34	2.05	0.00	0.00	55.00	127.75	0.00	10.71	3.02	14.40	6.93	2.45	9.85	1.33	6.11	3.92	0.00	0.00	58.72	19.32	19.32
24-Aug-16	53.86	26.39	0.80	1.66	2.02	2.30	0.00	0.00	47.26	134.29	0.00	11.52	3.45	12.58	7.54	2.27	9.51	1.21	6.05	4.38	0.00	0.00	58.50	15.52	15.52
25-Aug-16	50.97	18.19	0.00	0.29	1.05	0.81	0.00	0.00	46.86	118.16	0.00	8.23	3.43	10.14	5.72	1.40	8.45	0.00	6.08	5.19	0.00	0.00	48.64	16.14	16.14
26-Aug-16	52.51	17.77	1.29	0.08	0.89	0.83	0.00	0.00	56.38	129.75	0.00	8.91	2.52	10.22	8.80	1.58	8.43	0.39	6.05	4.55	0.00	0.00	51.43	15.99	15.99
27-Aug-16	52.51	22.39	0.00	0.00	0.14	1.16	0.00	0.00	51.51	127.71	0.00	8.91	5.55	6.42	7.45	1.46	7.38	0.39	6.13	4.74	0.00	0.00	48.43	16.31	16.31
28-Aug-16	53.90	21.57	0.00	0.00	0.14	0.28	0.00	0.00	48.13	124.01	0.00	8.08	5.55	6.42	6.18	1.46	7.63	0.00	5.96	4.88	0.00	0.00	46.15	16.03	16.03
29-Aug-16	53.51	22.13	0.00	0.00	0.00	0.26	0.00	0.00	45.98	121.87	0.00	7.33	3.07	5.92	5.85	1.12	6.64	0.00	6.06	4.38	0.00	0.00	40.37	16.10	16.10
30-Aug-16	58.44	25.00	0.00	0.00	0.58	0.83	0.00	0.00	41.82	126.67	0.00	7.85	3.07	5.92	9.17	1.12	7.20	0.00	6.10	4.76	0.00	0.00	45.19	5.81	5.81
31-Aug-16	54.59	22.88	0.00	0.14	0.00	1.09	0.00	0.00	44.63	123.31	0.00	7.25	2.89	6.65	10.83	2.25	6.61	0.00	6.07	4.47	0.00	0.00	47.02	0.00	0.00
Total	1581.52	661.63	12.08	41.01	48.89	85.18	4.04	0.00	1402.69	3837.04	37.84	346.88	116.28	350.10	264.26	132.89	292.75	73.45	68.26	118.33	0.00	0.00	1801.05	437.06	437.06

12.2 Export of NR to WR, ER & NER during August 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- Kankrol	WR - NR 400 KV Zerda- Bhinmal	WR - NR 220 KV Badod - Kota / Modak	WR - NR 220 KV Auraiya - Malanpur / Mehaon	WR-NR 400 KV Rihand Vindhyachal	WR - NR HVDC Mundra - M'garh	Total NR - WR	ER - NR 765 KV Sasaram - Fatehpur	ER - NR 765 KV Gaya - Varanasi 2'S/C	ER - NR 765 KV Gaya Balla	ER-NR 400 KV Patna - Balla 2x0/C	ER - NR 400 KV Muzaffarpur - G'pur D/C	ER - NR 400 KV B'shariff Balla D/C	ER - NR 400 KV Bah - G'pur D/C	ER - NR 400 KV B'shariff Varanasi D/C	ER - NR HVDC Sataram (Bypass)	ER - NR 220 KV Pusauli - Sahupuri	ER - NR 132 KV Sahupuri - K'nasa	ER - NR 132 KV Rihand - Son Nagar	Total NR - ER	NER-NR HVDC Biswanath Chariali - Agra	Total NR-NER
1-Aug-16	0.00	0.00	9.00	0.00	0.00	0.00	0.00	0.00	0.00	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.79	0.00	0.00	0.27	2.06	0.00	0.00
2-Aug-16	0.00	0.00	5.18	0.00	0.00	0.00	0.00	0.00	0.00	5.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.02	0.00	0.69	0.51	3.22	0.00	0.00
3-Aug-16	0.00	0.00	7.58	0.00	0.00	0.00	0.00	0.00	0.00	7.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.02	0.00	0.61	0.44	3.07	0.00	0.00
4-Aug-16	0.00	0.00	10.40	0.00	0.00	0.00	0.28	0.00	0.00	10.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.27	0.00	0.71	0.50	3.48	0.00	0.00
5-Aug-16	0.00	0.00	6.70	0.00	0.00	0.00	0.68	0.00	0.00	7.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.73	0.00	0.64	0.51	3.88	0.00	0.00
6-Aug-16	0.00	0.00	0.14	0.00	0.00	0.00	1.01	0.00	0.00	1.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.71	0.00	0.55	0.50	3.75	0.00	0.00
7-Aug-16	0.00	0.00	2.54	0.00	0.00	0.00	0.99	0.00	0.00	3.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.85	0.00	0.67	0.48	4.00	0.00	0.00
8-Aug-16	0.00	0.00	2.57	0.00	0.00	0.00	0.43	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.59	0.00	0.52	0.45	3.55	0.00	0.00
9-Aug-16	0.00	0.00	5.46	0.13	0.47	0.00	0.00	0.00	0.00	6.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.49	0.00	0.46	0.59	3.54	0.00	0.00
10-Aug-16	0.00	0.00	4.21	0.00	0.36	0.00	0.61	0.00	0.00	5.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.36	0.00	0.54	0.58	3.49	0.00	0.00
11-Aug-16	0.00	0.00	11.70	0.00	0.16	0.00	0.26	0.00	0.00	12.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.73	0.00	0.59	0.45	2.77	0.00	0.00
12-Aug-16	0.00	0.00	12.14	0.25	0.71	0.00	0.49	0.00	0.00	13.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.72	0.00	0.45	0.26	2.42	0.00	0.00
13-Aug-16	0.00	0.00	6.24	0.00	0.00	0.00	0.51	0.00	0.00	6.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.78	0.00	0.30	0.26	2.33	0.00	0.00
14-Aug-16	0.00	0.00	6.24	0.00	0.00	0.00	0.54	0.00	0.00	6.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.47	0.00	0.45	0.38	3.30	0.00	0.00
15-Aug-16	0.00	0.00	6.11	0.00	0.00	0.00	0.88	0.00	0.00	6.99	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.63	0.00	0.45	0.35	3.88	0.00	0.00
16-Aug-16	0.00	0.00	5.38	0.00	0.00	0.00	0.84	0.00	0.00	6.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.41	0.00	0.46	0.48	3.36	0.00	0.00
17-Aug-16	0.00	0.00	9.18	0.00	0.00	0.00	0.59	0.00	0.00	9.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.12	0.00	0.47	0.36	5.96	0.00	0.00
18-Aug-16	0.00	0.00	9.16	0.00	0.00	0.00	0.00	0.00	0.00	9.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.36	0.00	0.27	0.27	4.90	0.00	0.00
19-Aug-16	0.00	0.00	12.21	0.00	0.00	0.00	0.00	0.00	0.00	12.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.74	0.00	0.27	0.32	6.33	0.00	0.00
20-Aug-16	0.00	0.00	8.54	0.00	0.00	0.00	0.00	0.00	0.00	8.54	1.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.78	0.00	0.43	0.56	7.50	0.00	0.00
21-Aug-16	0.00	0.00	11.55	0.00	0.00	0.00	0.04	0.00	0.00	11.59	5.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.70	6.37	0.00	0.00
22-Aug-16	0.00	0.00	6.07	0.00	0.00	0.00	0.57	0.00	0.00	6.64	2.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.34	3.29	0.00	0.00
23-Aug-16	0.00	0.00	11.52	0.00	0.00	0.00	0.34	0.00	0.00	11.86	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.40	4.82	0.00	0.00
24-Aug-16	0.00	0.00	5.40	0.00	0.00	0.00	0.16	0.00	0.00	5.56	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61	0.60	6.31	0.00	0.00
25-Aug-16	0.00	0.00	9.67	0.00	0.00	0.00	0.24	0.00	0.00	9.92	7.03	0.00	0.00	0.00	0.00	0.00	0.00	0.84	0.00	0.00	0.63	0.72	9.22	0.00	0.00
26-Aug-16	0.00	0.00	5.36	0.00	0.00	0.00	0.52	0.00	0.00	5.87	5.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.57	6.38	0.00	0.00
27-Aug-16	0.00	0.00	7.78	0.48	0.00	0.00	0.31	0.00	0.00	8.57	5.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61	0.70	7.14	0.00	0.00
28-Aug-16	0.00	0.00	7.78	1.67	0.00	0.00	0.44	0.00	0.00	9.89	5.83	0.00	0.00	0.00	0.00	0.00	0.00	0.78	0.00	0.00	0.61	0.76	7.98	0.00	0.00
29-Aug-16	0.00	0.00	9.28	1.32	0.49	0.00	0.01	0.00	0.00	11.10	7.16	0.00	0.00	0.00	0.00	0.00	0.00	1.85	0.00	0.00	0.54	0.80	10.35	0.00	0.00
30-Aug-16	0.00	0.00	10.57	0.00	0.00	0.00	0.05	0.00	0.00	10.62	6.42	0.00	0.00	0.00	0.00	0.00	0.00	1.85	0.00	0.00	0.51	0.78	9.57	0.00	0.00
31-Aug-16	0.00	0.00	7.93	0.00	0.07	0.00	0.55	0.00	0.00	8.56	6.12	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.31	0.81	7.99	0.00	0.00
Total	0.00	0.00	233.59	3.86	2.26	0.00	11.32	0.00	0.00	251.02	62.60	0.00	0.00	0.00	0.00	0.00	0.00	6.07	56.55	0.00	15.28	15.69	156.19	0.00	0.00

Date	12.3 Import - Export of ER with WR & NER during August 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 Dharamajygarh - Ranchi 2x5/C	WR - ER 765 kV Dharamajygarh - Jharsuguda D/C	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 Dharamajygarh - Ranchi 2x5/C	ER_WR 765 kV Dharamajygarh - Jharsuguda D/C	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 Geylegghu - Salakati	ER - NER 132 kV Motangaranga	ER - NER 400 kV Binaguri - Bongai - Bongai 2x0/C	ER - NER 220 kV Birpara - Salakati D/C	Total ER - NER	ER - NER 132 kV Geylegghu - Salakati	ER - NER 132 kV Motangaranga	NER - ER 400 kV Binaguri - Bongai - Bongai 2x0/C	NER - ER 220 kV Birpara - Salakati D/C	Total NER - ER
1-Aug-16	11.43	0.00	5.93	0.20	2.18	2.96	3.01	0.14	0.00	25.86	0.00	6.85	0.00	0.64	0.00	0.00	0.00	0.21	2.64	10.34	1.41	1.00	2.79	2.35	7.54	0.00	0.00	0.54	0.00	0.54
2-Aug-16	11.10	0.00	5.65	0.03	2.13	2.76	2.97	0.06	0.00	24.71	0.00	8.44	0.00	1.11	0.00	0.00	0.00	0.77	3.12	13.44	1.40	1.01	4.84	2.51	9.77	0.00	0.00	0.05	0.00	0.05
3-Aug-16	9.99	0.00	5.41	0.00	1.86	2.30	2.58	0.00	0.00	22.15	0.00	11.64	0.00	1.33	0.00	0.00	0.00	1.07	3.42	17.46	1.46	1.01	6.48	2.92	11.87	0.00	0.00	0.00	0.00	0.00
4-Aug-16	8.83	0.00	5.09	0.00	1.75	2.05	2.40	0.07	0.00	20.18	0.00	11.71	0.00	1.59	0.00	0.00	0.00	0.80	2.94	17.04	1.39	0.99	6.18	2.54	11.10	0.00	0.00	0.00	0.00	0.00
5-Aug-16	8.55	0.00	5.10	0.02	2.07	1.99	2.86	0.00	0.00	20.61	0.00	11.57	0.00	1.60	0.00	0.00	0.00	0.92	2.95	17.04	1.36	1.01	10.31	2.85	15.52	0.00	0.00	0.00	0.00	0.00
6-Aug-16	9.48	0.00	5.54	0.00	1.70	1.73	2.34	0.02	0.00	20.81	0.00	11.11	0.00	2.23	0.00	0.00	0.00	0.87	2.97	17.18	1.43	0.96	12.61	3.07	18.07	0.00	0.00	0.00	0.00	0.00
7-Aug-16	9.11	0.00	5.09	0.00	1.64	1.62	2.26	0.00	0.00	19.72	0.00	13.70	0.00	2.10	0.00	0.00	0.00	0.77	2.97	19.55	1.53	0.71	12.49	2.88	17.61	0.00	0.00	0.00	0.00	0.00
8-Aug-16	7.37	0.00	4.42	0.00	1.75	2.05	2.41	0.08	0.00	18.08	0.00	11.68	0.00	1.59	0.00	0.00	0.00	0.49	2.70	16.46	1.53	0.64	11.23	2.90	16.29	0.00	0.00	0.30	0.00	0.30
9-Aug-16	8.46	0.00	4.89	0.01	1.92	2.26	2.65	0.01	0.00	20.20	0.00	10.06	0.00	1.43	0.00	0.00	0.00	0.67	2.99	15.15	1.22	0.99	5.96	2.17	10.34	0.00	0.00	0.46	0.00	0.46
10-Aug-16	7.74	0.00	4.10	0.07	1.95	2.11	1.51	0.04	0.00	17.51	0.00	10.11	0.00	2.17	0.00	0.00	0.00	0.92	2.27	15.47	1.20	1.00	7.30	2.30	11.80	0.00	0.00	0.56	0.00	0.56
11-Aug-16	7.35	0.08	4.30	0.11	1.66	2.27	2.29	0.92	0.00	18.98	0.00	4.82	0.00	0.80	0.00	0.00	0.00	0.17	2.22	8.01	1.14	0.99	9.36	2.47	13.97	0.00	0.00	0.00	0.00	0.00
12-Aug-16	8.20	0.02	4.99	0.14	2.37	3.05	3.30	0.22	0.00	22.31	0.00	4.14	0.00	0.30	0.00	0.00	0.00	0.09	2.58	7.11	1.20	1.00	12.65	2.66	17.51	0.00	0.00	0.00	0.00	0.00
13-Aug-16	7.97	0.00	4.93	0.30	2.23	2.62	3.11	0.01	0.00	21.17	0.00	9.90	0.00	0.75	0.00	0.00	0.00	0.45	3.00	14.10	1.07	1.02	5.57	2.06	9.72	0.00	0.00	0.70	0.00	0.70
14-Aug-16	9.10	0.00	5.01	2.13	1.69	2.39	2.38	0.03	0.00	22.74	0.00	10.25	0.00	0.00	0.00	0.00	0.00	0.51	3.00	13.77	1.17	1.01	8.82	2.89	13.89	0.00	0.00	0.00	0.00	0.00
15-Aug-16	7.87	0.00	4.01	1.42	0.99	1.55	1.39	0.00	0.00	17.24	0.00	9.88	0.00	0.00	0.01	0.00	0.01	0.95	3.24	14.08	1.13	1.07	7.75	2.82	12.77	0.00	0.00	0.00	0.00	0.00
16-Aug-16	6.27	0.00	3.11	0.00	1.09	1.46	1.48	0.00	0.00	13.42	0.00	10.25	0.00	1.53	0.00	0.00	0.00	1.48	3.00	16.30	1.06	0.97	5.64	2.45	10.11	0.00	0.00	0.52	0.00	0.52
17-Aug-16	6.64	0.00	3.82	0.00	1.18	1.74	1.61	0.38	0.00	15.37	0.00	9.16	0.00	1.15	0.00	0.00	0.00	0.26	1.96	12.53	1.06	0.96	7.21	2.53	11.76	0.00	0.00	0.32	0.00	0.32
18-Aug-16	5.92	0.08	3.22	0.03	1.11	1.71	1.51	0.18	0.00	13.75	0.83	5.23	0.10	1.36	0.04	0.08	0.06	0.06	1.76	9.52	1.53	0.72	21.85	3.70	27.81	0.00	0.00	0.05	0.00	0.05
19-Aug-16	6.94	0.01	3.95	0.06	1.29	2.15	1.76	0.17	0.00	16.33	0.00	4.36	0.00	1.02	0.00	0.00	0.01	0.21	1.38	6.98	1.36	0.86	21.51	4.02	27.75	0.00	0.00	0.00	0.00	0.00
20-Aug-16	9.60	0.13	4.72	0.03	1.09	2.25	1.48	0.26	0.00	19.57	0.00	3.76	0.00	0.87	0.00	0.00	0.00	0.09	1.53	6.25	1.31	0.71	22.27	3.58	27.87	0.00	0.00	0.00	0.00	0.00
21-Aug-16	9.29	0.12	4.71	0.04	0.63	1.70	0.83	0.36	0.00	17.69	0.00	2.82	0.00	1.62	0.03	0.01	0.04	0.03	1.87	6.42	1.30	0.65	14.81	3.07	19.83	0.00	0.00	0.00	0.00	0.00
22-Aug-16	4.84	0.00	2.41	0.00	0.29	0.82	0.36	0.20	0.00	8.93	0.31	5.64	0.02	2.14	0.21	0.14	0.33	0.07	2.28	11.14	1.50	0.68	13.70	3.20	19.07	0.00	0.00	0.00	0.00	0.00
23-Aug-16	6.52	0.01	3.92	0.02	1.16	1.90	1.56	1.10	0.00	16.19	0.05	5.71	0.00	1.21	0.00	0.00	0.00	0.02	1.70	8.68	1.35	0.73	19.28	3.53	24.89	0.00	0.00	0.00	0.00	0.00
24-Aug-16	9.64	0.04	5.08	0.44	1.89	2.99	2.63	1.34	0.00	24.04	0.00	6.71	0.00	0.39	0.00	0.00	0.00	0.00	1.33	8.43	1.15	0.85	17.20	3.22	22.42	0.00	0.00	0.00	0.00	0.00
25-Aug-16	11.46	0.08	5.86	2.01	2.09	3.47	2.92	0.71	0.00	28.61	0.00	3.11	0.00	0.20	0.00	0.00	0.00	0.11	2.03	5.46	1.20	0.65	17.14	2.97	21.97	0.00	0.00	0.00	0.00	0.00
26-Aug-16	10.55	1.06	5.84	3.00	2.02	3.51	2.84	0.95	0.00	29.77	0.00	1.96	0.00	0.00	0.00	0.00	0.00	0.02	2.03	4.01	1.13	0.40	13.45	3.12	18.10	0.00	0.00	0.00	0.00	0.00
27-Aug-16	13.07	0.07	6.98	3.47	2.36	2.13	3.38	0.76	0.00	32.22	0.00	3.78	0.00	0.00	0.00	0.00	0.00	0.12	2.41	6.30	1.30	0.48	15.62	2.98	20.38	0.00	0.00	0.00	0.00	0.00
28-Aug-16	13.38	0.00	6.66	2.45	1.43	2.91	2.01	0.12	0.00	28.96	0.00	5.61	0.00	0.00	0.00	0.00	0.01	0.20	3.24	9.06	1.22	0.60	15.64	3.00	20.46	0.00	0.00	0.00	0.00	0.00
29-Aug-16	14.11	0.41	7.21	0.20	2.71	4.19	3.77	0.05	0.00	32.66	0.00	1.66	0.00	0.81	0.00	0.00	0.00	0.34	3.56	6.37	1.27	0.60	13.84	3.01	18.73	0.00	0.00	0.00	0.00	0.00
30-Aug-16	12.74	0.56	7.21	0.12	2.46	3.99	3.41	0.89	0.00	31.38	0.00	1.81	0.00	0.76	0.00	0.00	0.00	0.03	2.45	5.05	1.17	0.57	6.73	2.21	10.68	0.00	0.00	0.84	0.00	0.84
31-Aug-16	11.90	1.33	7.20	1.84	2.84	4.17	3.99	1.28	0.00	34.55	0.00	3.02	0.00	0.33	0.00	0.00	0.00	0.02	2.02	5.38	1.04	0.68	0.70	1.34	3.76	0.00	0.00	1.26	0.01	1.26
Total	285.38	4.01	156.36	18.19	53.55	74.80	73.04	10.37	0.00	675.69	1.23	220.45	0.12	31.02	0.28	0.24	0.47	12.72	77.57	344.10	39.58	25.52	350.95	87.32	503.38	0.00	0.00	5.60	0.01	5.61

Date	12.4 Import and Export of SR with ER & WR during August 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-Aug-16	12.30	24.77	37.07	0.00	0.00	0.00	12.23	25.10	1.29	38.61	0.00	0.00	0.46	0.46
2-Aug-16	7.92	31.12	39.04	0.00	0.00	0.00	9.65	28.65	0.95	39.25	0.00	0.00	0.63	0.63
3-Aug-16	7.35	27.75	35.11	0.00	0.00	0.00	15.68	26.17	0.54	42.40	0.00	0.00	1.84	1.84
4-Aug-16	11.36	28.98	40.34	0.00	0.00	0.00	18.02	38.00	1.06	57.09	0.00	0.00	1.06	1.06
5-Aug-16	12.44	34.39	46.83	0.00	0.00	0.00	18.63	38.53	1.14	58.30	0.00	0.00	0.33	0.33
6-Aug-16	10.52	37.47	47.99	0.00	0.00	0.00	20.47	43.27	1.65	65.39	0.00	0.00	0.61	0.61
7-Aug-16	14.47	35.43	49.90	0.00	0.00	0.00	21.81	38.42	2.69	62.92	0.00	0.00	0.51	0.51
8-Aug-16	11.44	44.19	55.63	0.00	0.00	0.00	23.52	41.57	4.30	69.39	0.00	0.00	0.01	0.01
9-Aug-16	11.60	46.08	57.68	0.00	0.00	0.00	23.59	47.84	4.38	75.81	0.00	0.00	0.00	0.00
10-Aug-16	13.83	44.59	58.42	0.00	0.00	0.00	23.61	39.01	4.87	67.49	0.00	0.00	0.00	0.00
11-Aug-16	14.88	43.63	58.52	0.00	0.00	0.00	22.50	42.46	4.80	69.75	0.00	0.00	0.00	0.00
12-Aug-16	14.90	45.02	59.92	0.00	0.00	0.00	22.14	41.57	4.70	68.41	0.00	0.03	0.00	0.03
13-Aug-16	14.90	38.55	53.44	0.00	0.00	0.00	21.72	42.07	5.07	68.86	0.00	0.00	0.00	0.00
14-Aug-16	14.57	29.04	43.62	0.00	0.00	0.00	19.05	34.53	3.93	57.51	0.00	0.00	0.06	0.06
15-Aug-16	12.40	27.58	39.98	0.00	0.00	0.00	19.10	36.03	4.63	59.76	0.00	0.00	0.00	0.00
16-Aug-16	12.38	38.07	50.45	0.00	0.00	0.00	20.93	35.58	2.54	59.05	0.00	0.00	0.08	0.08
17-Aug-16	11.64	43.96	55.59	0.00	0.00	0.00	20.77	40.37	3.83	64.98	0.00	0.00	0.00	0.00
18-Aug-16	13.94	42.66	56.61	0.00	0.00	0.00	20.82	42.78	5.11	68.71	0.00	0.00	0.00	0.00
19-Aug-16	16.12	44.46	60.58	0.00	0.00	0.00	21.67	41.57	4.42	67.65	0.00	0.00	0.05	0.05
20-Aug-16	16.11	43.47	59.58	0.00	0.00	0.00	23.67	42.74	3.32	69.73	0.00	0.00	0.02	0.02
21-Aug-16	16.11	40.11	56.23	0.00	0.00	0.00	23.72	42.26	3.08	69.06	0.00	0.00	0.01	0.01
22-Aug-16	15.45	45.10	60.55	0.00	0.00	0.00	23.58	43.01	3.18	69.78	0.00	0.00	0.01	0.01
23-Aug-16	13.34	47.35	60.69	0.00	0.00	0.00	22.94	44.40	3.94	71.29	0.00	0.00	0.00	0.00
24-Aug-16	10.80	48.97	59.77	0.00	0.00	0.00	23.45	45.55	3.36	72.37	0.00	0.00	0.08	0.08
25-Aug-16	12.60	45.54	58.14	0.00	0.00	0.00	23.14	47.90	4.84	75.89	0.00	0.00	0.00	0.00
26-Aug-16	13.10	43.32	56.41	0.00	0.00	0.00	20.38	45.83	5.04	71.25	0.00	0.00	0.00	0.00
27-Aug-16	13.60	38.03	51.64	0.00	0.00	0.00	20.01	40.86	4.00	64.87	0.00	0.00	0.00	0.00
28-Aug-16	13.52	31.27	44.79	0.00	0.00	0.00	20.13	39.02	3.78	62.94	0.00	0.00	0.00	0.00
29-Aug-16	13.49	42.75	56.24	0.00	0.00	0.00	20.30	41.57	4.40	66.27	0.00	0.00	0.02	0.02
30-Aug-16	14.90	38.28	53.17	0.00	0.00	0.00	21.14	39.84	3.42	64.39	0.00	0.00	0.00	0.00
31-Aug-16	16.08	34.41	50.49	0.00	0.00	0.00	21.99	31.09	2.72	55.79	0.00	0.00	0.05	0.05
Total	408.09	1206.35	1614.44	0.00	0.00	0.00	640.38	1227.59	106.98	1974.95	0.00	0.03	5.84	5.87

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
जुलाई 2016 JUL'16	1020.49	-151.41	-367.92	-0.29
अगस्त 2016 AUG'16	1032.45	-161.34	-386.58	-0.29
कुल Total	3008.17	-839.38	-1865.68	-1.18

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

द्विपक्षीय एसटीओए BILATERAL SHORT TERM OPEN ACCESS

अगस्त 2016 Aug 16			April-Aug'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	757	3769	3295	12244
प.क्षे. WR	815	1012	3083	5443
द.क्षे. SR	279	1118	1300	4712
पू.क्षे. ER	209	793	1024	4931
पूर्वोत्तर क्षे. NER	18	72	153	446
कुल TOTAL	2078	6765	8855	27776

एसटीओए SHORT TERM OPEN ACCESS

माह MONTH	सामूहिक एसटीओए Collective STOA		द्विपक्षीय एसटीओए Bilateral STOA	
	क्र्रेताओं / विक्रेताओं की सं. NO. of Buyers/Sellers	अनुमोदित ऊर्जा (मि.यु.) Approved Energy (MU)	क्र्रेताओं / विक्रेताओं की सं. NO. of Buyers/Sellers	अनुमोदित ऊर्जा (मि.यु.) Approved Energy (MU)
अप्रैल 2016 Apr'16	2923	3501	1675	4573
मई 2016 May'16	2822	2936	1460	5339
जून 2016 Jun'16	3003	3146	1568	5231
जुलाई 2016 Jul'16	3142	3594	2074	5868
अगस्त 2016 Aug'16	2960	3463	2078	6765
कुल TOTAL	14850	16640	8855	27776

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
01.08.16 to 07.08.16	42.34	25.75	13.80	30.89	19.97
08.08.16 to 14.08.16	41.84	28.46	17.95	37.77	21.33
15.08.16 to 21.08.16	49.32	33.29	16.32	50.43	34.73
22.08.16 to 28.08.16	49.07	19.25	14.57	45.34	31.13

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 अगस्त 2016

EXCHANGES THROUGH POWER EXCHANGES - August 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	115.17
2	हरियाणा Haryana		74.20	264.78
3	राजस्थान Rajasthan		14.87	415.72
4	दिल्ली Delhi		186.00	30.26
5	उत्तर प्रदेश Uttar Pradesh		0.00	79.28
6	उत्तराखंड Uttarakhand		31.32	46.37
7	हिमाचल प्रदेश Himachal Pradesh		281.81	33.90
8	जम्मू और कश्मीर J & K		115.88	2.51
9	केंद्र शासित चंडीगढ़ UT Chandigarh		7.06	0.04
10	ए डी हाइड्रो AD Hydro		73.12	0.00
11	करचम वांगत् KW		298.71	0.00
12	श्री सीमेंट Shree Cement		5.79	0.00
13	नाथपा झाकरी Nathpa Jhakri		26.63	0.00
14	बैरासूल Baira Siul HEP(BS0)		0.00	0.00
15	चमेरा -1 Chamera-I HEP(CM1)		0.00	0.00
16	चमेरा -2 Chamera-II HEP(CM2)		0.00	0.00
17	धौलीगंगा Dhauliganga HEP(DG0)		0.00	0.00
18	दुलहस्ती Dulahasti HEP(DU0)		0.00	0.00
19	सलाल Salal HEP(SL0)		0.00	0.00
20	सेवा -2 Sewa-II NHPC(SW2)		2.52	0.00
21	टनकपुर Tanakpur HEP(TP0)		0.00	0.00
22	उरी Uri HEP(UR0)		0.00	0.00
23	लांको बुधिल LANCO Budhil		6.22	0.00
24	चमेरा-3 chamera 3		0.00	0.00
25	अदानी एचवीडीसी ADANI HVDC(NORGU0)		0.00	0.00
26	मलाना MALANA		8.71	0.00
27	उरी-II Uri-II HEP(UR2)		0.00	0.00
28	पार्वति-III Parbati-II		0.00	0.00
29	सिंगरौली Singrauli		1.10	0.00
30	दादरी-I Dadri stage-I		0.31	0.00
31	दादरी-II Dadri stage-II		1.18	0.00
32	ऊंचाहार-I Unchahar-I TPS		0.58	0.00
33	ऊंचाहार-II Unchahar-II TPS		0.64	0.00
34	ऊंचाहार-III Unchahar-III TPS		0.27	0.00
35	रिहंद-I Rihand STPS-I		1.21	0.00
36	रिहंद-II Rihand STPS-II		1.21	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 एक्सचेंज के माध्यम से विनिमय - माह अगस्त 2016

EXCHANGES THROUGH POWER EXCHANGES - August 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
38	मध्य प्रदेश MP	पश्चिमी क्षेत्र WR	503.85	69.97
39	महाराष्ट्र Maharashtra		38.89	54.83
40	गुजरात Gujarat		50.31	439.79
41	छत्तीसगढ़ Chattisgarh		33.26	125.00
42	गोवा Goa		5.07	13.60
43	दमन और दीव Daman and Diu		0.00	43.36
44	दादरा और नगर हवेली Dadra & Nagar Haveli		0.00	232.57
45	जिंदल JD		167.61	0.00
46	लांको अमरकंटक LANCO AMK		0.00	0.00
47	आर्यन कोल ACB India Limited		23.85	0.00
48	जिंदल स्टील एंड पावर Jindal Steel and Power Ltd		5.47	0.00
49	बालको -2 Balco-II		3.00	0.00
50	स्टरलाइट Sterlite(w3rse0)		13.16	0.00
51	एमको EMCO		7.34	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	195.90
55	के एस के महानदी KSK Mahanadi		0.00	0.00
56	जिंदल स्टेज -II Jindal Stg-II		2.23	0.00
57	कोरबा (प.) Korba(W) Comp. Ltd.		0.00	0.00
58	डी बी पावर D B Power		60.04	0.00
59	धारीवाल Dhariwal		22.71	0.00
60	जे पी निगी Jaypee Nigire		81.78	0.00
61	जी एम आर छत्तीसगढ़ GMR Chhattisgarh		0.38	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		8.65	0.00
65	एपीएल मुंद्रा स्टेज-II APL Mundra Stg-II		37.08	0.00
66	एपीएल मुंद्रा स्टेज-III APL Mundra Stg-III		49.00	0.00
67	टोरेंट सुगेन Torrent Sugem		0.00	0.00
68	मारुति कोल Maruti Coal		87.04	0.00
69	स्पेक्ट्रम Spectrum		12.90	0.00
70	झाबुआ पावर Jhabua Power		0.00	0.00
71	विंध्याचल-I Vindhychal Stg-I		0.00	0.00
72	विंध्याचल-II Vindhychal Stg-II		0.00	0.00
73	विंध्याचल-III Vindhychal Stg-III		0.00	0.00
74	विंध्याचल-IV Vindhychal Stg-IV		0.00	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	0.00	0.00	
80	एनएसपीसीएल NSPCL	8.24	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 अगस्त 2016

EXCHANGES THROUGH POWER EXCHANGES - August 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
81	आंध्र प्रदेश Andhra Pradesh	दक्षिणी क्षेत्र SR	11.96	170.28
82	कर्नाटक Karnataka		24.32	221.36
83	केरल Kerala		6.19	37.56
84	तमिलनाडु Tamilnadu		51.56	19.31
85	पाण्डिचेरी Pondicherry		0.00	4.28
86	गोवा Goa		0.00	0.00
87	लांको कोंडापल्ली LANCO_KONDPLY		0.40	0.00
88	सिमापुरी SIMHAPURI		55.20	0.00
89	मीनाक्षी MINAXI		83.07	0.00
90	तेलंगाना TELANGANA		37.11	369.71
91	थर्मल पावर टेक Thermal Power Tech		11.80	0.00
92	कोस्टल इनरजेन Coastal Energen		74.46	0.00
93	आइ एल & एफ एस IL&FS		0.87	0.00
94	सिम्हाद्री-II Simhadri Stg-II		0.21	0.00
95	एनएलसी-I विस्तार NLC TPS-I (Exp)		6.76	0.00
96	एनएलसी-II स्टेज-I NLC TPS-II Stg-I		7.91	0.00
97	एनएलसी-II स्टेज-II NLC TPS-II Stg-II		9.72	0.00
98	लांको कोंडापल्ली स्टेज-III LANCO_KONDPLY STG III		0.68	0.00
99	पश्चिम बंगाल West Bengal	पूर्वी क्षेत्र ER	8.58	249.01
100	उड़ीशा Odisha		30.63	36.06
101	बिहार Bihar		0.00	96.09
102	झारखंड Jharkhand		0.00	0.00
103	सिक्किम Sikkim		48.81	0.00
104	दामोदर घाटी परियोजना DVC		12.24	8.59
105	स्टरलाइट STERLITE		0.00	0.00
106	मैथन पावर लिमिटेड Maithon P. Ltd		0.00	0.00
107	आधुनिक पा. लिमिटेड Adhunik P.Ltd		0.83	0.00
108	चुजाचैन Chuzachen HEP		72.14	0.00
109	रंगित Rangit HEP		0.00	0.00
110	तीस्ता Teesta HEP		0.00	0.00
111	जीएमआर कमलंगा GMR Kamalanga		1.60	0.00
112	जिंदल आई पी टी एल JIPTL		318.57	0.00
113	जोरथांग Jorethang		66.69	0.00
114	अरुणाचल प्रदेश Arunachal Pradesh	पूर्वोत्तर क्षेत्र NER	6.76	0.00
115	असम Assam		20.00	73.80
116	मणिपुर Manipur		12.10	0.72
117	मेघालय Meghalaya		0.70	10.88
118	मिज़ोरम Mizoram		27.09	0.00
119	नागालैंड Nagaland		5.95	0.12
120	त्रिपुरा Tripura		37.28	2.00
121	अगरतला जीटीपीपी Agartala GTPP_AGO		4.67	0.00
122	कोपिली KOPILI_KP1		15.09	0.00
123	असम जीबीपीपी Assam GBPP_KTO		6.71	0.00
124	लोकटक LOKTAK		0.00	0.00
125	रंगानदी Ranganadi		13.32	0.00
126	दोयांग Doyang		5.07	0.00
127	पलाताना Palatana		0.00	0.00
128	कोपिली-II Kopili-II		1.06	0.00
129	खडोंग Khandong		2.31	0.00
कुल Total			3462.81	3462.81

16. RENEWABLE ENERGY CERTIFICATE MECHANISM**MONTH:-August 2016****RE Source & Unit wise break up (01.08.2016-31.08.2016)**

Sr.No	Source Wise	Accreditation		Registration	
		Capacity (MW)	Unit	Capacity (MW)	Unit
1	Wind	63	5	59.23	7
2	Urban or Municipal Waste	0	0	0	0
3	Solar Thermal	0	0	0	0
4	Solar PV	0	0	0	0
5	Small Hydro	5	1	6	2
6	Others	0	0	0	0
7	Geothermal	0	0	0	0
8	Biomass	0	0	0	0
9	Bio-fuel cogeneration	0	0	0	0
	Total	68	6	65.23	9

RECs Issued (01.08.2016-31.08.2016)

Sr.No.	Non Solar	Solar	Total
1	60055	24951	85006

Redemption of REC (01.08.2016-31.08.2016)

Sr.No.	Non Solar	Solar	Total
1	262870	39978	302848

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

Sr.No	Source Wise	Accreditation		Registration	
		Capacity (MW)	Unit	Capacity (MW)	Unit
1	Wind	385.68	48	303.43	36
2	Urban or Municipal Waste	0	0	0	0
3	Solar Thermal	0	0	0	0
4	Solar PV	88.33	37	89.72	36
5	Small Hydro	26	4	28	7
6	Others	0	0	0	0
7	Geothermal	0	0	0	0
8	Biomass	109.5	9	42	4
9	Bio-fuel cogeneration	114.86	15	116.55	15
	Total	724	113	579.7	98

RECs Issued (Apr-Aug 16)

Sr.No.	Non Solar	Solar	Total
1	1440852	347358	1788210

Redemption of REC (Apr-Aug 16)

Sr.No.	Non Solar	Solar	Total
1	1455892	184574	1640466

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

Sr.No	Source Wise	Accreditation		Registration	
		Capacity (MW)	Unit	Capacity (MW)	Unit
1	Wind	2482.54	604	2278.7	593
2	Urban or Municipal Waste	8	1	0	0
3	Solar Thermal	3	1	0	0
4	Solar PV	720.31	353	708.41	341
5	Small Hydro	293.69	37	248.19	31
6	Others	1.67	1	1.67	1
7	Geothermal	0	0	0	0
8	Biomass	735.42	78	682.42	75
9	Bio-fuel cogeneration	1068.64	123	1004.5	117
	Total	5313.27	1198	4923.89	1158

RECs Issued since Inception to Aug 16

Sr.No.	Non Solar	Solar	Total
1	28797041	4566592	33363633

Redemption of REC since Inception to Aug 16

Sr.No.	Non Solar	Solar	Total
1	15531075	1092846	16623921

REC Closing balance as on 31.08.2016

Sr.No.	Non Solar	Solar	Total
1	13265966	3473746	16739712

17. Major Grid events for August 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	Time				
1	NER	132 kV Dimapur (PG) - Dimapur (Nagaland) I line	DoP Nagaland	01-08-2016	10:12	01-08-2016	10:35	00:23	Dimapur area of Nagaland was connected with rest of NER Grid through 132 kV Dimapur (PG)-Dimapur (NA) I line(132 kV Dimapur (PG)-Dimapur (NA) II line is out since 18.04.16). At 10:12 Hrs on 01.08.16,132 kV Dimapur (PG)-Dimapur (NA) I line tripped. Due to tripping of this element, Dimapur area was separated from rest of NER Grid and subsequently collapsed due to no source in this	0	49	GD-I
2	WR	Tripping of 1. 400 kV Varsana-APL-II 2. 400 kV Varsana-Hadala S/C 3. 400/220 kV ICT-1 4. 400/220 kV ICT-3 due to Bus Bar protection operated at 400 kV Varsana Bus-I	GETCO	02-08-2016	11:47	02-08-2016	13:05	01:18	At 11:47 hrs, 400 kV Main Bus – 1 tripped along with all connected element from Bus -1 at Varsana.	200	Nil	GI-II
3	NER	132 kV Doyang - Mokokchung(NA) line	DoP Nagaland	02-08-2016	12:20	02-08-2016	12:30	00:10	Mokokchung area of Nagaland was connected with rest of NER Grid through 132 kV Doyang-Mokokchung (NA) line(220 kV Mokokchung(PG)-Marianai(PG) I & II lines were not in service due to tower collapse since 01:11 Hrs on 12.07.16, 132 kV Mokokchung(NA)-Marianai(AS) line is under long outage & 66 kV Tuensang-Likimro line kept open for system requirement). At 12:20 Hrs on 02.08.16, 132 kV Doyang-Mokokchung (NA) line tripped. Due to tripping of this element, Mokokchung area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	15	GD-I
4	NER	132 kV Aizwal - Zuangtui line	POWERGRID	03-08-2016	08:40	03-08-2016	09:04	00:24	Zuangtui area of Mizoram was connected with rest of NER Grid through 132 kV Aizawl- Zuangtui line. At 08:40 Hrs on 03.08.16, 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	27	GD-I
5	NR	1)400kV Jodhpur II-Rajwest ckt-1 2)400kV Jodhpur II-Merta ckt 2	Rajasthan	03-08-2016	15:20	03-08-2016	21:54	06:34	400kV Jodhpur II-Rajwest ckt-1and 400kV Jodhpur II-Merta ckt 2 tripped on overvoltage.			GI-II
6	NER	132 kV Dimapur (PG) - Kohima line	POWERGRID & DoP Nagaland	03-08-2016	16:58	03-08-2016	18:10	01:12	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 16:58 Hrs on 03.08.16,132 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.	18	20	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	Time				
7	WR	1. 220 KV Birsinghpur (SGTPS) – Rewa on transient fault 2. 132 kV Amarpatan-Maihar on overloading 3. 220 kV Amarkantak-Siddhi on overloading This left the 220 kV Rewa and Siddhi and nearby area without power source causing blackout	MPPTCL/MPP GCL	04-08-2016	12:16	04-08-2016	12:30	00:14	At 12:04 Hrs, 220 kV Birsinghpur (SGTPS) – Rewa Ckt tripped on transient fault from both ends. Simultaneously 132 kV Amarpatan – Maihar Ckt tripped due to overloading. Consequently complete load of 220 kV Rewa & 220 kV Sidhi S/s shifted on 220 kV Amarkantak – Sidhi Ckt, resulting in over loading and its tripping at 12:16 Hrs. Due to the above tripping interruption occurred in following areas due to non-availability of any other supply source : 220 kV Rewa, 220 kV Sidhi, 132 kV Rewa,132 kV S/s Sidhi, 132 kV Deosar, 132 kV Mauganj,132 kV Katra,132 kV Mangawan,132 kV Rewa II (Sagra/Paharia),132 kV Rampur Naikin, 132 kV Beohari,132 kV Amarpatan ,Jhinna HPS,Silnara HPS,Devlonid HPS,220 KV	Nil	240	GD-I
8	NR	1)400/220kV, 315MVA ICT-I at Bamnauli 2)400/220kV, 500MVA ICT-II at Bamnauli 3)400/220kV, 500MVA ICT-III at Bamnauli 4)400/220kV, 315MVA ICT-IV at Bamnauli 5)220kV Bamnauli-DIAL Ckt-I 6)220kV Bamnauli-DIAL Ckt-II 7)220kV Bamnauli-Papankalan II Ckt-I 8)220kV BTPS-Mehrauli Ckt-II 9)220/66kV 100MVA Pr. Tr-I at Papankalan I 10)220/66kV 100MVA Pr. Tr-II at Papankalan I 11)220/66kV 100MVA Pr. Tr-IV at Naiagarh	Delhi	04-08-2016	12:24	04-08-2016	13:34	01:10	Relay maloperated at Bamnauli station and all 220 KV lines from 400/220KV Bamnauli got tripped & All 400/220 KV ICTs were connected from 400KV side.At the same time 220kV BTPS-Mehrauli-II line got tripped due to over loading, As 220kV BTPS-Mehrauli-I was under s/d.		800	GD-I
9	NER	132 kV Ranganadi - Lekhi	POWERGRID & DoP AP	04-08-2016	13:07	04-08-2016	13:34	00:27	Lekhi area & Capital area of Arunachal Pradesh and Gohpur Area of Assam were connected with rest of NER Grid through 132 kV Ranganadi-Lekhi line (Bus Coupler CB of Gohpur kept open for system requirement). At 13:07 Hrs on 04.08.16, 132 kV Ranganadi-Lekhi line tripped. Due to tripping of this element, Lekhi area & Capital area & Gohpur area were separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	40	GD-I
10	NER	132 kV Silchar - Dullavcherra	POWERGRID & AEGCL	04-08-2016	23:09	04-08-2016	23:23	00:14	Dullavcherra area of Assam was connected with rest of NER Grid through 132 kV Silchar- Dullavcherra line(132 kV Dullavcherra-Dharmanagar line kept open for system requirement). At 23:09 Hrs on 04.08.16, 132 kV Silchar-Dullavcherra line tripped. Due to tripping of this element, Dullavcherra area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	34	GD-I
11	NR	1)220kV Muradnagar-Muradnagar(II) ckt-1 2)220kV Muradnagar-Muradnagar(II) ckt-2 3)220kV Loni-Muradnagar ckt 2 4)220kV Muradnagar-Sahibabad ckt 1	UP	05-08-2016	12:46	05-08-2016	13:22	00:36	B-Phase jumper of Wave Trap of Muradnagar interconnector ckt-2 at 220 KV Muradnagar Substation snapped and resulted in L3-E fault seen at 400 KV Muradnagar S/S in Z2. This line fault overloaded the 03 nos. of 315 MVA ICTs of 400 KV Muradnagar S/S. Thus SPS operated and resulted in trippings of 220 KV Muradnagar-Muradnagar(II) ckt-1 & 2, 220kV Loni-Muradnagar ckt 2 and 220kV Muradnagar-Sahibabad ckt 1 tripped.		500	GD-I

S.No.	Region	Name of Elements (Tripped/Manually opened)	Owner / Agency	Outage		Revival		Outage Duration	Event (As reported)	Generation Loss(MW)	Load Loss(MW)	Category as per CEA Grid Standards
				Date	Time	Date	Time	Time				
12	NER	132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II, 132 kV NEHU - NEIGRIHMS, 132 kV Mustem-NEHU, Leshka Unit 2 & 3	POWERGRID, MePTCL & MePGCL	05-08-2016	21:06	05-08-2016	21:10	00:04	Khliehriat area of Meghalaya was connected with rest of NER Grid through 132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines, 132 kV NEHU - NEIGRIHMS line and 132 kV Mustem-NEHU line (132 kV Khliehriat-Lumnsnong line kept open for system requirement). At 21:06 Hrs on 05.08.16, 132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines, 132 kV NEHU - NEIGRIHMS line and 132 kV Mustem-NEHU line tripped. Due to tripping of these elements, Khliehriat area was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.	84	43	GD-I
13	NR	1)400/220kV Moradabad 315MVA ICT-1 2) 400/220kV Moradabad 315MVA ICT-2	UP	05-08-2016	23:49	06-08-2016	12:12	12hours and 23min	400/220kV Moradabad 315MVA ICT-1 & 2 tripped due to fire at 220 KV Switchyard at Moradabad.		500	GD-I
14	NR	1)400kV Bareilly(UP)-Bareilly(PG) ckt-1 2)400kV Bareilly(UP)-Bareilly(PG) ckt-2 3)400kV Bareilly-Unnao ckt 2 4)220kV Cbganj(UP)-Tanakpur(NHPC) 5)220kV Bareilly(UP)-Dhauliganga(NHPC)	UP/NHPC/PO WERGRID	06-08-2016	12:36	06-08-2016	13:36	01:00	Busbar protection operated at Bareilly(UP). 400kV Bareilly(UP)-Bareilly(PG) ckt-1 & 2, 400kV Bareilly-Unnao ckt 2, 220kV Cbganj(UP)-Tanakpur(NHPC) and 220kV Bareilly(UP)-Dhauliganga(NHPC) tripped.		250	GD-I
15	NR	1) 400kV Dhuri(400kv)-Talwandi Sabo ckt 1 2) 400kV Dhuri(400kv)-Talwandi Sabo ckt 2	Punjab	06-08-2016	15:45	06-08-2016	21:44	05:59	400kV Dhuri(400kv)-Talwandi Sabo ckt 1&2 tripped during synchronization of T.Sabo unit# 1.			GI-II
16	NR	1)220kV Moradabad-Sambhal 2)220kV Moradabad-Nehtor 3)220kV Cbganj-Moradabad	UP	06-08-2016	23:50	08-08-2016	17:50	1 day and 18hours	Fire caught at 220kV substation and 220kV Moradabad-Sambhal, 220kV Moradabad-Nehtor & 220kV Cbganj-Moradabad tripped.			GI-II
17	NER	132 kV Khliehriat (PG) - Khliehriat (ME) I&II lines, 132 kV Mustem-NEHU line, 132 kV NEHU - NEIGRIHMS line, 132 kV Khandong - Khliehriat(PG) I line and Leshka Unit 1	POWERGRID, MePTCL & MePGCL	08-08-2016	09:25	08-08-2016	09:28	00:03	Khliehriat area of Meghalaya was connected with rest of NER Grid through 132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines, 132 kV NEHU - NEIGRIHMS line and 132 kV Mustem-NEHU line (132 kV Khliehriat-Lumnsnong line kept open for system requirement). At 09:25 Hrs on 08.08.16, 132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines, 132 kV NEHU - NEIGRIHMS line and 132 kV Mustem-NEHU line tripped. Due to tripping of these elements, Khliehriat area was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.	42	16	GD-I
18	NER	132 kV Dimapur (PG) - Kohima Line	POWERGRID & DoP Nagaland	08-08-2016	14:36	08-08-2016	14:56	00:20	Capital area of Nagaland was connected with rest of NER Grid through 132 kV Dimapur(PG)-Kohima line (132 kV Kohima-Karong line & 66 kV Tuensang-Likimro line kept open for system requirement). At 14:36 Hrs on 08.08.16, 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.	21	20	GD-I
19	NER	132 kV Loktak - Ningthoukhong line	MSPCL	09-08-2016	06:12	09-08-2016	06:45	00:33	Ningthoukhong area of Manipur was connected with rest of NER Grid through 132 kV Loktak-Ningthoukhong line (132 kV Kakching-Kongba line & 132 kV Imphal(PG)-Ningthoukhong line kept open for system constraint). At 06:12 Hrs on 09.08.16, 132 kV Loktak-Ningthoukhong line tripped. Due to tripping of this element, Ningthoukhong area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	30	GD-I
20	NR	1) 400kV Dhuri(400kv)-Talwandi Sabo ckt 1 2) 400kV Dhuri(400kv)-Talwandi Sabo ckt 2	Punjab	09-08-2016	10:40	09-08-2016	11:55	01:15	400kV Dhuri(400kv)-Talwandi Sabo ckt 1&2 tripped due to PLCC maloperation at 10:40hrs. Both ckt's tripped again at 13:04hrs during protection testing work.			GI-II

S.No.	Region	Name of Elements (Tripped/Manually opened)	Owner / Agency	Outage		Revival		Outage Duration	Event (As reported)	Generation Loss(MW)	Load Loss(MW)	Category as per CEA Grid Standards
				Date	Time	Date	Time	Time				
21	NR	1)400kV Jodhpur II-Rajwest 2 2)400kV Barmer-Rajwest 1 3)Rajwest TPS unit #1 4)Rajwest TPS unit #2 5)Rajwest TPS unit #3 6)Rajwest TPS unit #5 7)Rajwest TPS unit #7 9)Rajwest TPS unit #8	Rajasthan	09-08-2016	23:52	10-08-2016	00:00	8min	400kV Jodhpur II-Rajwest 2 and 400kV Barmer-Rajwest 1 tripped at 23:52 hrs. 400kV Jodhpur II-Rajwest 1 already tripped at 18:46hrs. At same time Rajwest TPS unit #1, #2, #3, #4, #5, #7 and #8 tripped.	800		GD-I
22	WR	Tripping of 1. 220 kV SLPP-Zaghadia-1 2. 220 kV SLPP-Zaghadia-2 3. SLPP U#2,3,5 while transferring elements from Bus-1 to Bus-2	GSECL	10-08-2016	15:00	10-08-2016	15:33	00:33	The emergency shut down of 220 kV Bus-2 at Zaghadia S/S has been requested to attend hot point on isolator of bus coupler bay towards 220 kV Bus-2. To transfer all elements from 220 kV Bus-2 to 220 kV Bus-1 to facilitated 220 kV Bus – 2 outages, 220 KV SLPP – Zaghadia line No. 1 was made off from both the ends. The said line was taken back in service on 220 KV Bus – 1 at Zaghadia S/ S. <u>Just after few seconds, all SLPP units tripped.</u>	350	Nil	GI-I
23	NR	1)400kV Jodhpur-Akal 2)400kV Jodhpur-Merta ckt 1	Rajasthan	10-08-2016	17:34	10-08-2016	21:47	04:13	400kV Jodhpur-Merta ckt-1 and 400kV Jodhpur-Akal tripped on overvoltage.			GI-II
24	NER	132 kV Dimapur (PG) - Kohima Line	POWERGRID & DoP Nagaland	11-08-2016	11:58	11-08-2016	12:05	00:07	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 11:58 Hrs on 11.08.16, 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.	24	16	GD-I
25	NER	132 kV Dimapur (PG) - Dimapur (Nagaland) I line	DoP Nagaland	11-08-2016	18:32	11-08-2016	18:45	00:13	Dimapur area of Nagaland was connected with rest of NER Grid through 132 kV Dimapur (PG)-Dimapur (NA) I line(132 kV Dimapur (PG)-Dimapur (NA) II line is out since 18.04.16). At 18:32 Hrs on 11.08.16,132 kV Dimapur (PG)-Dimapur (NA) I line tripped. Due to tripping of this element, Dimapur area was separated from rest of NER Grid and subsequently collapsed due to no source in this	0	52	GD-I
26	NER	132 kV Balipara - Khupi line	NEEPCO	12-08-2016	01:27	12-08-2016	02:01	00:34	Khupi area of Arunachal Pradesh was connected with rest of NER Grid through 132 kV Balipara- Khupi line. At 01:27 Hrs on 12.08.16 , 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	20	GD-I
27	NER	132 kV Loktak - Ningthoukhong line	MSPCL	12-08-2016	09:35	12-08-2016	09:57	00:22	Ningthoukhong area of Manipur was connected with rest of NER Grid through 132 kV Loktak-Ningthoukhong line (132 kV kakching-Kongba line & 132 kV Imphal(PG)-Ningthoukhong line kept open for system constraint). At 09:35 Hrs on 12.08.16, 132 kV Loktak-Ningthoukhong line tripped. Due to tripping of this element, Ningthoukhong area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	22	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	Time				
28	WR	While opening for CT disconnections from 110kV to 400 kV Kalwa-Padghe 2 circuit at Kalwa end at 08:22hrs outage on line was taken. At 09:44 hRs 400 kV Bus Bar protection 1 operated at Kalwa causing following tripping. 1. 400 kV Kalwa Bus 1 2. 400 kV Kalwa-Pune 3. 400/220 kV Kalwa ICT 2 4. 400 kV Kalwa-Khargar 1	MSETCL	12-08-2016	09:44	12-08-2016	10:19	00:35	Bus Bar Protection operated for 400 kV Kalwa Bus 1 causing tripping.	Nil	Nil	GI-II
29	WR	Tripping of 1. 400 kV VSTPS-Vindhyachal(PS)-1 2. 400 kV VSTPS-Vindhyachal(PS)-2 3. 400 kV Vindhyachal(PS)-Sasan-1 4. 400 kV Vindhyachal(PS)-Sasan-2 5. 400 kV VSTPS-Sasan-III due to R-Y Fault on 400 kV VSTPS-Sasan-III	PGCIL	13-08-2016	12:18	13-08-2016	12:51	00:33	R-Y phase to Phase fault occurred on 400 kV Vindhyachal-Sasan 3 ckt however at the same time 400 kV Vindhyachal-Vindhyachal PS D/C and 400 kV Vindhyachal(PS)-Sasan D/C also tripped from Vindhyachal PS due to protection logic issue.	Nil	Nil	GI-II
30	NR	1)220kV Sarnath-Gajokhar 2)400/220kV 315MVA ICT #1 at Sarnath(UP) 3)400/220kV 500MVA ICT #2 at Sarnath(UP) 4)400/220kV 315MVA ICT #3 at Sarnath(UP)	UP	13-08-2016	16:08	13-08-2016	16:42	00:34	Fault occurred in 220kV Sarnath-Gajokhar ckt resulted in tripping of all three 400/220kV ICTs at Sarnath(UP).		500	GD-I
31	NER	132 kV Khliehriat (PG) - Khliehriat (ME) I&II lines, 132 kV Leshka - Khliehriat (ME) I&II lines, 132 kV Mustem-NEHU line, 132 kV NEIGRIHMS - Khliehriat (ME) line and Leshka Unit 1,2&3	POWERGRID, MePTCL & MePGCL	15-08-2016	01:26	15-08-2016	01:42	00:16	Khliehriat area of Meghalaya was connected with rest of NER Grid through 132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines, 132 kV NEIGRIHMS - Khliehriat (ME) line and 132 kV Mustem-NEHU line (132 kV Khliehriat-Lumnsnong line kept open for system requirement). At 01:26 Hrs on 15.08.16, 132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines, 132 kV NEIGRIHMS - Khliehriat (ME) line and 132 kV Mustem-NEHU line tripped. Due to tripping of these elements, Khliehriat area was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.	126	15	GD-I
32	NER	132 kV Khliehriat (PG) - Khliehriat (ME) I&II lines, 132 kV Leshka - Khliehriat (ME) I&II lines, 132 kV Mustem-NEHU line, 132 kV NEIGRIHMS - NEHU (ME) line, 132 kV Khandong - Khliehriat(PG) I line and Leshka Unit 1,2&3	POWERGRID, MePTCL & MePGCL	15-08-2016	03:19	15-08-2016	03:29	00:10	Khliehriat area of Meghalaya was connected with rest of NER Grid through 132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines, 132 kV NEHU - NEIGRIHMS line and 132 kV Mustem-NEHU line (132 kV Khliehriat-Lumnsnong line kept open for system requirement). At 03:19 Hrs on 15.08.16, 132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines, 132 kV NEHU - NEIGRIHMS line and 132 kV Mustem-NEHU line tripped. Due to tripping of these elements, Khliehriat area was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.	126	26	GD-I
33	NER	132 kV Doyang - Mokokchung(NA) line, 132 kV Dimapur - Doyang I & II lines and Doyang Unit 1,2&3	POWERGRID, D oP Nagaland & NEEPCO	15-08-2016	06:05	15-08-2016	06:38	00:33	Doyang Power Station was connected with rest of NER Grid through 132 kV Doyang- Dimapur I & II lines & 132 kV Doyang-Mokokchung(NA) line. At 06:05 Hrs on 15.08.16 , 132 kV Doyang-Mokokchung(NA) line tripped (132 kV Doyang- Dimapur I & II lines tripped at 06:04 Hrs on 15.08.16). Due to evacuation problem, Doyang Power Station was blacked out.	72	0	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	Time				
34	NER	132 kV Dimapur (PG) - Dimapur (Nagaland) I line	DoP Nagaland	15-08-2016	12:36	15-08-2016	15:14	02:38	Dimapur area of Nagaland was connected with rest of NER Grid through 132 kV Dimapur (PG)-Dimapur (NA) I line(132 kV Dimapur (PG)-Dimapur (NA) II line is out since 18.04.16). At 12:36 Hrs on 15.08.16,132 kV Dimapur (PG)-Dimapur (NA) I line tripped. Due to tripping of this element, Dimapur area was separated from rest of NER Grid and subsequently collapsed due to no source in this	0	54	GD-I
35	NER	132 kV Dimapur (PG) - Dimapur (Nagaland) I line	DoP Nagaland	15-08-2016	15:29	15-08-2016	17:26	01:57	Dimapur area of Nagaland was connected with rest of NER Grid through 132 kV Dimapur (PG)-Dimapur (NA) I line(132 kV Dimapur (PG)-Dimapur (NA) II line is out since 18.04.16). At 15:29 Hrs on 15.08.16, 132 kV Dimapur (PG)-Dimapur (NA) I line tripped. Due to tripping of this element, Dimapur area was separated from rest of NER Grid and subsequently collapsed due to no source in this	0	63	GD-I
36	NER	132 kV Dimapur (PG) - Kohima line	POWERGRID & DoP Nagaland	15-08-2016	15:29	15-08-2016	15:41	00:12	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 15:29 Hrs on 15.08.16, 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.	24	23	GD-I
37	NER	132 kV Khliehriat (PG) - Khliehriat (ME) I&II lines, 132 kV Mustem-Khliehriat (ME) line, 132 kV NEIGRIHMS - Khliehriat (ME) line and Leshka Unit 1,2&3	POWERGRID, MePTCL & MePGCL	15-08-2016	23:51	16-08-2016	00:01	00:10	Khliehriat area of Meghalaya was connected with rest of NER Grid through 132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines, 132 kV NEIGRIHMS - Khliehriat (ME) line and 132 kV Mustem-Khliehriat line (132 kV Khliehriat-Lumnsnong line kept open for system requirement). At 23:51 Hrs on 15.08.16, 132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines, 132 kV NEIGRIHMS - Khliehriat (ME) line and 132 kV Mustem-Khliehriat line tripped. Due to tripping of these elements, Khliehriat area was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.	126	19	GD-I
38	NR	1)765kV Kanpur(PG)-Jhatikara(PG) 2)400kV Kanpur(PG)-Kanpur(765kV) ckt-1	POWERGRID	16-08-2016	03:26	16-08-2016	07:20	03:54	Y-N fault occurred in 765kV Kanpur(PG)-Jhatikara(PG). 400kV Kanpur(PG)-Kanpur(765kV) ckt-1 also tripped.			GI-II
39	NER	132 kV Dimapur (PG) - Kohima line	POWERGRID & DoP Nagaland	16-08-2016	10:50	16-08-2016	10:55	00:05	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 10:50 Hrs on 16.08.16, 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.	24	15	GD-I
40	NER	132 kV Dimapur (PG) - Kohima line	POWERGRID & DoP Nagaland	16-08-2016	14:19	16-08-2016	14:23	00:04	Capital area of Nagaland was connected with rest of NER Grid through 132 kV Dimapur(PG)-Kohima line (132 kV Kohima-Karong line & 66 kV Tuensang-Likimro line kept open for system requirement). At 14:19 Hrs on 16.08.16, 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	0	13	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	Time				
41	NER	132 kV Dimapur (PG) - Kohima line	POWERGRID & DoP Nagaland	16-08-2016	16:59	16-08-2016	17:33	00:34	Capital area of Nagaland was connected with rest of NER Grid through 132 kV Dimapur(PG)-Kohima line (132 kV Kohima-Karong line & 66 kV Tuensang-Likimro line kept open for system requirement). At 16:59 Hrs on 16.08.16, 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.	24	21	GD-I
42	NER	132 kV Dimapur (PG) - Kohima line	POWERGRID & DoP Nagaland	17-08-2016	07:37	17-08-2016	07:48	00:11	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 07:37 Hrs on 17.08.16, 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.	24	20	GD-I
43	NR	1)400kV Kanpur new-Kanpur ckt-1 2)765kV Kanpur New-Varanasi ckt-1	POWERGRID	18-08-2016	11:15	18-08-2016	11:35	00:20	Sparking in wave trap resulting in Y-N fault. 400kV Kanpur new-Kanpur ckt-1, 765kV Kanpur New-Varanasi ckt-1 tripped.			GI-II
44	NR	1)400/220kV 315MVA ICT #1 at Sarnath(UP) 2)400/220kV 500MVA ICT #2 at Sarnath(UP) 3)400/220kV 315MVA ICT #3 at Sarnath(UP)	UP	18-08-2016	18:55	18-08-2016	19:47	00:52	During charging of 220kV line at Sarnath, R-N fault occurred resulting in tripping of all three 400/220kV ICTs at Sarnath(UP)		250	GD-I
45	NER	132 kV Khliehriat (PG) - Khliehriat (ME) I&II lines, 132 kV Leshka - Khliehriat (ME) I&II lines, 132 kV Mustem-NEHU line, 132 kV NEIGRIHMS - Khliehriat (ME) line and Leshka Unit 1,2&3	POWERGRID, MePTCL & MePGCL	18-08-2016	23:39	18-08-2016	23:45	00:06	Khliehriat area of Meghalaya was connected with rest of NER Grid through 132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines, 132 kV NEIGRIHMS - Khliehriat (ME) line and 132 kV Mustem-NEHU line (132 kV Khliehriat-Lumnsnong line kept open for system requirement). At 23:39 Hrs on 18.08.16, 132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines, 132 kV NEIGRIHMS - Khliehriat (ME) line and 132 kV Mustem-NEHU line tripped. Due to tripping of these elements, Khliehriat area was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.	70	25	GD-I
46	NER	132 kV Dimapur (PG) - Kohima line	POWERGRID & DoP Nagaland	19-08-2016	09:55	19-08-2016	10:02	00:07	Capital area of Nagaland was connected with rest of NER Grid through 132 kV Dimapur(PG)-Kohima line (132 kV Kohima-Karong line & 66 kV Tuensang-Likimro line kept open for system requirement). At 09:55 Hrs on 19.08.16, 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.	24	16	GD-I
47	ER	Bakreswar (WBPDCL)	WB	19-08-2016	13:39	19-08-2016	14:40	01:01	At 13:39 hrs fault occurred in 220kV BKTPP - Gokarna Ckt # 1. Due to non-opening of B phase breaker at Bakreswar, all feeders connected to Bus - I tripped in LBB operation	370		GD-I
48	ER	Purnea (BSPTCL & PG)	BSPTCL & PG	19-08-2016	17:11	19-08-2016	18:16	01:05	At 17:12 hrs 132 KV Supaul-Kataiya -D/c tripped on Y - B - N fault. At the same time 132 kV Purnea(PG)-Purnea(BSEB) -T/C, 132 kV Purnea(PG)-Kishangunj tripped on O/C causing power failure at Purnea, Forbisgunj, Katihar, Khagaria, Naugachia. Power flow to Nepal (Duhabi) via Kataiya got interrupted.		240	GD-I
49	NR	1)400kV Anta-Chabra ckt-1 2)400kV Kawai-Chabra	Rajasthan/Ada ni	19-08-2016	20:45	19-08-2016	21:40	00:55	400kV Anta-Chabra ckt-1 and 400kV Kawai-Chabra tripped.	300		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	Time				
50	NR	1) 400/220kV 315MVA ICT #1 at Kashipur(PTCUL) 2) 400/220kV 315MVA ICT #2 at Kashipur(PTCUL) 3)All 220kV feeders	PTCUL	20-08-2016	17:07	20-08-2016	17:20	00:13	While taking charging attempt of 220kV feeder, both 400/220kV 315MVA ICTs at Kashipur(PTCUL) tripped.	350		GD-I
51	NER	132 kV Dimapur (PG) - Kohima line	POWERGRID & DoP Nagaland	21-08-2016	11:33	21-08-2016	11:53	00:20	Capital area of Nagaland was connected with rest of NER Grid through 132 kV Dimapur(PG)-Kohima line (132 kV Kohima-Karong line & 66 kV Tuensang-Likimro line kept open for system requirement). At 11:33 Hrs on 21.08.16, 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.	8	14	GD-I
52	NER	132 kV Dimapur (PG) - Kohima line	POWERGRID & DoP Nagaland	21-08-2016	12:25	21-08-2016	12:33	00:08	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 12:25 Hrs on 21.08.16, 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.	8	13	GD-I
53	NER	132 kV Balipara - Khupi line	NEEPCO	21-08-2016	14:36	21-08-2016	17:09	02:33	Khupi area of Arunachal Pradesh was connected with rest of NER Grid through 132 kV Balipara- Khupi line. At 14:36 Hrs on 21.08.16 , 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	10	GD-I
54	NER	132 kV Balipara - Khupi line	NEEPCO	21-08-2016	20:56	21-08-2016	21:06	00:10	Khupi area of Arunachal Pradesh was connected with rest of NER Grid through 132 kV Balipara- Khupi line. At 20:56 Hrs on 21.08.16 , 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	16	GD-I
55	NER	132 kV Balipara - Khupi line	NEEPCO	22-08-2016	01:23	22-08-2016	01:35	00:12	Khupi area of Arunachal Pradesh was connected with rest of NER Grid through 132 kV Balipara- Khupi line. At 01:23 Hrs on 22.08.16, 132 kV Balipara- Khupi line tripped. Due to tripping of this element, Khupi area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	18	GD-I
56	SR	Tripping of 220kV lines and ICT's at 220kV Chikampalli substation of APTRANSCO	APTRANSCO	22-08-2016	03:15	22-08-2016	05:00	01:45	Triggering incident was failure of B-phase CT had occurred in 220kV Chinakampalli-Kalikiri feeder at Chinakampalli end. CT fault inturn resulted in faults in 220kV Bus-1 and Bus-2 resulting in tripping of all 220kV feeders and ICT's. 400kV lines at Cudappah (Chinakampalli) were not			GI-I
57	SR	Multiple tripping at 400kV Neyveli TS2 power station.	NLDC	22-08-2016	06:14	22-08-2016	07:23	01:09	Bus bar protection of bus-2 operated at NLC-II due maloperation CT selection relay of NLC2-NLC2Expansion. All elements connected to bus-2 got tripped including generating units-4&6. 400kV NLC2-Salem-2, 400kV NLC2-Pugalur, 400kV NLC2-NLC1Expnsion, 400kV NLC2-Nagapattinam, 400kV NLC2-Pondy, 400/230kV ICT-&2, 400kV NLC2-NLC2Exp tripped during the incident.			GI-II

S.No.	Region	Name of Elements (Tripped/Manually opened)	Owner / Agency	Outage		Revival		Outage Duration	Event (As reported)	Generation Loss(MW)	Load Loss(MW)	Category as per CEA Grid Standards
				Date	Time	Date	Time	Time				
58	NR	1)220kV Barmer-Akal 2)220kV Barmer-Rajwest 3)400kV Jodhpur-Kankroli(PG)-1 4)400kV Jodhpur-Merta-2 5)400kV Jodhpur-Rajwest-1 6)400kV Akal-Barmer-2	Rajasthan/PO WERGRID	22-08-2016	21:56	22-08-2016	22:14	00:18	CT blasted at Barmer. Over voltage at Jodhpur occurred after tripping of 220kV Barmer-Akal & 220kV Barmer-Rajwest line. 400kV Jodhpur-Kankroli(PG)-1, 400kV Jodhpur-Merta-2, 400kV Jodhpur-Rajwest-1, 400kV Akal-Barmer-2 also tripped.			GI-II
59	SR	Complete outage of 220kV Kalamasheri sub station of KSEB.	KSEB	23-08-2016	11:20	23-08-2016	11:55	00:35	Triggering incident was conductor snapping in 110kV Kalamashery-Kaloor feeder		500	GD-I
60	SR	Tripping of HVDC GAJUWAKA POLE 1	POWERGRID	23-08-2016	13:08	23-08-2016	13:44	00:36	Non-operation of B-phase OLTC tap of Pole-2 had led to undesired tripping of east filters and Pole-1			GI-II
61	NR	1)800kV Agra-BNC pole 1 2)800kV Agra-BNC pole 2	POWERGRID	24-08-2016	12:56	24-08-2016	15:19	02:23	Due to Auxillary supply failure both poles of 800kV Agra-BNC tripped			GI-II
62	NER	132 kV Khliehriat (PG) - Khliehriat (ME) I&II lines, 132 kV Mustem-NEHU line, 132 kV NEIGRIHMS - NEHU line	POWERGRID, MePTCL & MePGCL	25-08-2016	09:23	25-08-2016	09:29	00:06	Khliehriat area(Mustem,NEIGRIHMS & Khliehriat) of Meghalaya was connected with rest of NER Grid through 132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines, 132 kV NEIGRIHMS - NEHU line and 132 kV Mustem-NEHU line (132kV Lumshnong- Panchgram line was under Shutdown from 10:00 Hrs on 24.08.16). At 09:23 Hrs on 25.08.16, 132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines, 132 kV NEIGRIHMS - NEHU line and 132 kV Mustem-NEHU line tripped. Due to tripping of these elements, Khliehriat area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	24	GD-I
63	NER	132 kV Khliehriat (PG) - Khliehriat (ME) I&II lines and 132 kV Mustem-NEHU line	POWERGRID, MePTCL & MePGCL	25-08-2016	13:16	25-08-2016	13:18	00:02	Khliehriat area (Mustem & Khliehriat) of Meghalaya was connected with rest of NER Grid through 132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines, 132 kV NEIGRIHMS - NEHU line and 132 kV Mustem-NEHU line (132kV Lumshnong- Panchgram line was under Shutdown from 10:00 Hrs on 24.08.16). At 09:23 Hrs on 25.08.16, 132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines, 132 kV NEIGRIHMS - NEHU line and 132 kV Mustem-NEHU line tripped. Due to tripping of these elements, Khliehriat area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	10	GD-I
64	NER	132 kV Dimapur (PG) - Kohima line	POWERGRID & DoP Nagaland	25-08-2016	14:40	25-08-2016	14:55	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 14:40 Hrs on 25.08.16, 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	0	17	GD-I
65	NER	132 kV Dimapur (PG) - Kohima line	POWERGRID & DoP Nagaland	25-08-2016	15:40	25-08-2016	16:05	00:25	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 15:40 Hrs on 25.08.16, 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	0	16	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	Time				
66	NER	132 kV Dimapur (PG) - Dimapur (Nagaland) I line	DoP Nagaland	25-08-2016	15:50	25-08-2016	16:00	00:10	Dimapur area of Nagaland was connected with rest of NER Grid through 132 kV Dimapur (PG)-Dimapur (NA) I line(132 kV Dimapur (PG)-Dimapur (NA) II line is out since 18.04.16). At 15:50 Hrs on 25.08.16,132 kV Dimapur (PG)-Dimapur (NA) I line tripped. Due to tripping of this element, Dimapur area was separated from rest of NER Grid and subsequently collapsed due to no source in this	0	46	GD-I
67	ER	Jamshedpur (PG & JUSNL)	PG & JUSNL	26-08-2016	10:15	26-08-2016	11:15	01:00	Following elements tripped: 400 kv Jamshedpur - Durgapur, 400 kv Jamshedpur - Chaibasa, 400 kv Jamshedpur - Maithon, 400/220 kv ICT I & II at Jamshedpur, 400 kv Jamshedpur - Rourkela			GI-II
68	NR	1)400kV Mainpuri(PG)-Pariccha(UP) ckt-1 2)400kV Mainpuri(PG)-Pariccha(UP) ckt-2	POWERGRID/ UP	26-08-2016	16:46	26-08-2016	17:12	00:26	400kV Mainpuri(PG)-Pariccha(UP) D/C tripped. Y phase to earth fault is reported.			GI-II
69	NR	1)220/132kV, 100MVA ICT #1 at Raibareilly 2)220/132kV, 100MVA ICT #2 at Raibareilly 3)220/132kV, 100MVA ICT #3 at Raibareilly	POWERGRID/ UP	26-08-2016	23:01	27-08-2016	00:19	01:18	220/132kV, 100MVA all three ICTs at Raibareilly tripped on over-fluxing.		150	GD-I
70	NR	1)400kV Chamera I(NHPC)-Jalandhar(PG) ckt-1 2)400kV Chamera I(NHPC)-Jalandhar(PG) ckt-2 3)180MW Chamera I unit #1 4)180MW Chamera I unit #2 5)180MW Chamera I unit #3 6)100MW Chamera II unit #2	POWERGRID/ NHPC	27-08-2016	07:16	27-08-2016	07:50	00:34	400kV Chamera I(NHPC)-Jalandhar(PG) ckt 1 & 2 tripped on phase to phase fault. At the same time 180MW Chamera I unit #1, #2 & #3 tripped on differential protection operation. 100MW Chamera II unit #2 also tripped along with this.	650		GD-I
71	NR	1)220kV Sakatpura-Rapp(A) ckt-1 2)220kV Sakatpura-Rapp(A) ckt-3 3)220kV Sakatpura-Rapp(B) ckt-2 4)220kV Sakatpura-Dahra 5)220kV Sakatpura-Barod	Rajasthan	27-08-2016	21:15	28-08-2016	21:43	00:28	220kV Sakatpura-Rapp(A) ckt 1 & 3, 220kV Sakatpura-Rapp(B) ckt 2, 220kV Sakatpura-Dahra, 220kV Sakatpura-Barod tripped.	210		GD-I
72	NR	1)400kV Jodhpur II-Merta ckt-2 2)400kV Jodhpur II(RVPL)-Kankroli(PG) ckt-1 3)400kV Jodhpur II-Rajwest ckt-1	POWERGRID/R ajasthan	28-08-2016	03:26	28-08-2016	03:34	00:08	400kV Jodhpur II-Merta ckt-2, 400kV Jodhpur II(RVPL)-Kankroli(PG) ckt-1 and 400kV Jodhpur II-Rajwest ckt-1 tripped on overvoltage.			GI-II
73	NER	132 kV Khliehriat (PG) - Khliehriat (ME) I&II lines, 132 kV Mustem-NEHU line, 132 kV NEIGRIHMS - NEHU line and Leshka Unit 1	POWERGRID, MePTCL & MePGCL	28-08-2016	10:08	28-08-2016	10:11	00:03	Khliehriat area (Mustem, NEIGRIHMS, Lumshnong & Khliehriat) of Meghalaya was connected with rest of NER Grid through 132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines, 132 kV NEIGRIHMS - NEHU line and 132 kV Mustem-NEHU line (132kV Lumshnong- Khliehriat line kept open for system requirement). At 10:08 Hrs on 28.08.16, 132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines, 132 kV NEIGRIHMS - NEHU line and 132 kV Mustem-NEHU line tripped. Due to tripping of these elements, Khliehriat area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	35	23	GD-I
74	ER	Sasaram (PG & BSPTCL)	BSPTCL & PG	28-08-2016	10:54	28-08-2016	11:38	00:44	At 10:40 hrs, 220 kV Sasaram- Nadokhar Line tripped from Sasaram end due to Y-N fault under Z-3 (Fault was in 132 Kv Kudra - Nadokhar), At 11:10 Hrs the above mentioned line tripped again during charging attempt from Sasaram end (line was opened from Sasaram End only) along with 220 kV arrah -nadokhar.		50	GD-I
75	NR	1)220kV Pragati-Sarita Vihar ckt-1 2)220kV Pragati-Sarita Vihar ckt-2	Delhi	28-08-2016	12:36	28-08-2016	12:39	00:03	220kV Pragati-Sarita Vihar ckt-1 and 2 tripped on distance protection. Bus coupler at Pragati was open. This caused islanding of Pragati units from grid and units came on house load.	180	156+51(on account of UFR)	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	Time				
76	WR	Tripping of 1. 220 kV Mehgaon-Malanpur tripped at 21:19 on 28 Aug on R phase fault 2. 220 kV Auraiya-Mehgaon tripped from Auraiya end at 01:29 Hrs on 29 Aug 3. 132 kV Mehagona-Malanpur tripped on R phase O/C at Malanpur end at 01:29 Hrs on 29 Aug This led to blackout of Mehgaon Substation	MPPTCL	29-08-2016	01:29	29-08-2016	01:35	00:06	Due to multiple tripping 220/132 kV mehgaon and associated load got blackout.	Nil	87	GD-I
77	ER	Jamshedpur (PG, DVC & JUSNL)	PG,DVC & JUSNL	29-08-2016	13:38	29-08-2016	14:24	00:46	Multiple tripping incident at Jamshedpur. Following elements tripped: 400 kV Jamshedpur - Andar, 400 kV Jamshedpur - Mejia, 400 kV Jamshedpur - APNRL - II, 400 kV Jamshedpur - TISCO & 400 kV Jamshedpur - Baripada			GI-II
78	NR	1)765kV Bhiwani -Meerut 2)765/400kV Bhiwani 1000 MVA ICT 2 3)400kV Bhiwani(PGCIL)-Mohindergarh(Adani) ckt-1	POWERGRID/ Adani	30-08-2016	14:14	30-08-2016	14:37	00:23	765kV Bhiwani -Meerut and 765/400kV Bhiwani 1000 MVA ICT 2 tripped on PRD protection operation. 400kV Bhiwani(PGCIL)-Mohindergarh(Adani)-1 tripped on DT received from Bhiwani end.			GI-II
79	ER	Khagul (BSPTCL)	BSPTCL	30-08-2016	19:18				At 19:18 hrs all ICT at Khagaul tripped due to snapping of Y phase jumper of 132 kV main bus at Khagul		250	GD-I
80	WR	Tripping of 1. 400 kV MB Power-Jabalpur (PS)-1 2. 400 kV MB Power-Jabalpur (PS)-2 3. MB Power Unit-1 due to DT received for both lines at Jabalpur PS.	PGCIL/MB POWER	30-08-2016	20:08	01-09-2016	10:45	14:37	Due to Tripping of 400 kV Mpower-Jabalpur PS D/C on PLCC issue, 400 kV MB power Balckout.	455	Nil	GD-I
81	NER	132 kV Silchar- Dullavcherra line	POWERGRID & AEGCL	31-08-2016	00:51	31-08-2016	01:05	00:14	Dullavcherra area of Assam was connected with rest of NER Grid through 132 kV Silchar- Dullavcherra line(132 kV Dullavcherra-Dharmanagar line kept open for system requirement). At 00:51 Hrs on 31.08.16,132 kV Silchar-Dullavcherra line tripped. Due to tripping of this element, Dullavcherra area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	27	GD-I
82	NER	132 kV AGTPP - Kumarghat line, AGTPP Unit 3	POWERGRID & NEEPCO	31-08-2016	07:50	31-08-2016	10:06	02:16	Tripura system along with AGTPP system was connected with rest of NER Grid through 132 kV AGTPP – Kumarghat line (132 KV PK Bari – Dharmanagar line, 132 P K Bari-Kumarghat line and 132 KV Agarthala- Dhalabil line kept open for system requirement and 132 KV Agartala-Budhjung Nagar I & II lines, 132 KV Palatana-Udaipur line, 132 KV Surjamani Nagar- Budhjung Nagar I & II lines, 132 KV Surjamani Nagar - Agartala I & II lines were out of service). At 07:51 Hrs on 31.08.16, 132 kV AGTPP – Kumarghat line tripped. Due to tripping of this element, Tripura system along with AGTPP system was separated from rest of NER Grid.	63	0	GD-I
83	SR	Complete outage of 220kV Nagjheri power station of KPCL.	KPCL	31-08-2016	12:47	31-08-2016	13:05	00:18	Bus dead occurred at 220kV Nagjheri Power station due to tripping of evacuating lines.			GD-I
84	NER	132 kV Dimapur (PG) - Dimapur (Nagaland) I line	DoP Nagaland	31-08-2016	15:55	31-08-2016	16:14	00:19	Dimapur area of Nagaland was connected with rest of NER Grid through 132 kV Dimapur (PG)-Dimapur (NA) I line(132 kV Dimapur (PG)-Dimapur (NA) II line is out since 18.04.16). At 15:55 Hrs on 31.08.16,132 kV Dimapur (PG)-Dimapur (NA) I line tripped. Due to tripping of this element, Dimapur area was separated from rest of NER Grid and subsequently collapsed due to no source in this	0	57	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	Time				
85	ER	Purnea (BSPTCL & PG)	BSPTCL & PG	31-08-2016	19:53	31-08-2016	20:45	00:52	At 19:53 Hrs, after tripping of all 220/132 kV ICT at Madhepura, load at Nepal, Kataiya, supoul & Madhepura was supplied through 132kV Purnea(B)- Forbisganj S/C & 132kV Purnea(PG)- Kishanganj- Forbisganj S/C which tripped on overload.		350	GD-I
86	ER	Purnea (BSPTCL & PG)	BSPTCL & PG	31-08-2016	22:12	31-08-2016	22:37	00:25	At 22:12 Hrs, 220 KV Purnea-Madhepura-II & I tripped on R-N fault & overload respectively. after tripping of 220 kV Purnea - Madhepura D/C, load at Nepal, Kataiya, supoul & Madhepura was supplied through 132kV Purnea(B)- Forbisganj S/C & 132kV Purnea(PG)- Kishanganj- Forbisganj S/C which tripped on overload.		310	GD-I
87	NR	1)220kV Muradnagar-Muradnagar(II) ckt-1 2)220kV Muradnagar-Muradnagar(II) ckt-2 3)220kV Loni-Muradnagar ckt 2	UP	31-08-2016	23:27	-	-	-	220kV Loni-Muradnagar, 220kV Muradnagar-Muradnagar II ckt-1 and ckt-2 tripped. Phase to earth fault is reported.	300		GD-I

18. NEW ELEMENTS COMMISSIONED IN AUGUST-2016								
COMMISSIONING OF NEW GENERATING UNITS								
REGION	SL. NO.	CONSTITUENT	UNIT NAME	UNIT NO	CAPACITY (MW)	DATE	TIME	
WR	1	IPP	TRN Energy	1	300	19.08.16		
COMMISSIONING OF NEW ICTs								
REGION	SL. NO.	CONSTITUENT	VOLTAGE LEVEL	SUB-STATION	ICT NO	CAPACITY	DATE	TIME
WR	1	MAHATRANSCO	400/220	Koradi	II	500	29.08.16	
	2	GETCO	400/220	Kasor	III	315	30.08.16	
SR	3	Powergrid	400/220	Somanhalli	III	500	25.08.16	
ER	4	Powergrid	400/220	Maithon	III	500	28.08.16	
COMMISSIONING OF NEW TRANSMISSION LINES								
REGION	SL. NO.	CONSTITUENT	LINE NAME	CKT NO	kV	DATE	TIME (Hrs)	
WR	1	POWERGRID	Indore-Khandwa	II	400	02.08.16		
SR	2	POWERGRID	Nelamangala-Tumkur	I	400	22.08.16		
	3		Tumkur-Bidadi	I	400	22.08.16		
	4	TANTRANSCO	Arasur- Karamadai	D/C	400	24.08.16		
	5		Karamadi-MTPS	D/C	400	24.08.16		

विद्युत विभव रूपरेखा माह – अगस्त 2016

VOLTAGE PROFILE - AUGUST 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%	792	755	776
2		गया GAYA	0%	100%	0%	0%	798	750	775
3		झारसुगुडा JHARSUGUDA	0%	100%	0%	0%	799	768	786
4		रांची RANCHI	0%	100%	0%	0%	798	759	783
5		सासाराम SASARAM	0%	100%	0%	0%	800	716	756
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	801	748	777
2		अनपरा सी ANPARA-C	0%	100%	0%	0%	787	743	771
3		बलिया BALLIA	0%	100%	0%	0%	801	747	776
4		भिवानी BHIWANI	0%	96%	4%	4%	807	744	782
5		बरेली BAREILLY	17%	83%	0%	17%	760	718	752
6		फतेहपुर FATEHPUR	0%	100%	0%	0%	800	740	771
7		झाटिकरा JHATIKARA	0%	99%	1%	1%	807	758	783
8		लखनऊ LUCKNOW	0%	100%	0%	0%	760	756	776
9		मेरठ MEERUT	0%	83%	17%	17%	816	752	790
10		मोगा MOGA	0%	97%	3%	3%	814	753	783
11		फागी PHAGI	0%	100%	0%	0%	801	752	780
12		उन्नाव UNNAO	0%	100%	0%	0%	790	725	759
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	796	739	773
2		औरंगाबाद AURANGABAD	0%	96%	4%	4%	809	734	784
3		भोपाल (बीडीटीसीएल) BHOPAL (BDTCL)	0%	100%	0%	0%	792	749	773
4		बिलासपुर BILASPUR	0%	100%	0%	0%	777	754	767
5		बीना BINA	0%	100%	0%	0%	800	752	778
6		चापा CHAMPA	0%	86%	14%	14%	816	774	794
7		धर्मजयगढ़ DHARAMJAIGARH	0%	100%	0%	0%	790	757	776
8		धुले (बीडीटीसीएल) DHULE (BDTCL)	0%	100%	0%	0%	804	746	782
9		ग्वालियर GWALIOR	0%	100%	0%	0%	802	750	779
10		इंदौर INDORE	0%	100%	0%	0%	792	750	774
11		जबलपुर JABALPUR	0%	100%	0%	0%	797	752	780
12		कोरडी KORADI	0%	100%	0%	0%	777	733	757
13		पुणे PUNE	0%	100%	0%	0%	800	725	769
14		रायगढ़ पूलिंग RAIGARH POOLING	0%	90%	10%	10%	809	775	792
15		रायपुर पूलिंग RAIPUR POOLING	0%	99%	1%	1%	802	751	783
16		सासन SASAN	0%	100%	0%	0%	789	757	774
17		सतना SATNA	0%	100%	0%	0%	798	755	780
18		सिवनी SEONI	0%	100%	0%	0%	797	756	781
19		सीपत SIPAT	0%	100%	0%	0%	775	754	765
20		सोलापुर SOLAPUR	0%	88%	12%	12%	815	748	790
21		तामनार TAMNAR	0%	94%	6%	6%	807	775	791
22		वडोदरा VADODARA	0%	100%	0%	0%	800	758	783
23		विंध्याचल पूलिंग VINDHYACHAL PS	0%	100%	0%	0%	791	760	776
24		वर्धा WARDHA	0%	98%	2%	2%	808	747	785
1	दक्षिणी क्षेत्र SR	कर्नूल KURNOOL	0%	96%	4%	4%	812	752	786
2		नेल्लूर पूलिंग NELLORE PS	0%	99%	1%	1%	807	759	784
3		रायचूर RAICHUR	0%	93%	7%	7%	812	749	787
4		तिरुवलम THIRUVALEM	0%	75%	25%	25%	819	768	794
1	पूर्वोत्तर क्षेत्र NER	अज़ारा AZARA (400 kV)	0%	100%	0%	0%	412	399	407
2		बालिपारा BALIPARA (400 kV)	0%	99%	1%	1%	427	388	409
3		बोंगाईगाव BONGAIGAON (400 kV)	0%	100%	0%	0%	418	383	405
4		मीसा MISA (400 kV)	0%	98%	2%	2%	427	392	410
5		सिलचर SILCHAR (400 kV)	0%	100%	0%	0%	421	396	409

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

20. List of Tripping of Elements monitored by NLDC for the month of August 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	MO	01-08-2016 00:00	Taken out manually	16-08-2016 13:35	373:35:00	0
2	Pusauli	HVDC	ER/NR	TS	16-08-2016 21:16	Due to converter transformer protection opertaed	20-08-2016 16:27	91:11:00	1
3	Pusauli	HVDC	ER/NR	TP	22-08-2016 06:19	filter protection trip relay operated	22-08-2016 11:53	5:34:00	2
4	Vindhyachal Pole-I	HVDC	WR/NR	TS	13-08-2016 00:00	DC over current protection operated	13-08-2016 19:38	19:38:00	1
5	Vindhyachal Pole-I	HVDC	WR/NR	TS	14-08-2016 19:55	DC over current protection operated	16-08-2016 19:53	47:58:00	2
6	Gazuwaka Pole-II	HVDC	ER/SR	SE	23-08-2016 10:55	EMERGENCY LC BY PGCIL TO ATTEND SF6 GAS LEAKAGE	23-08-2016 13:09	2:14:00	0
7	Gazuwaka Pole-I	HVDC	ER/SR	TP	23-08-2016 13:02	BLOCKED DUE TO FILTER UNBALANCE DURING POLE II DEBLOCKING	23-08-2016 13:44	0:42:00	1
8	Biswanath Chariali-Agra Pole-I	HVDC	NER/NR	SO	08-08-2016 16:03	MR (Metallic Return)-GR (Ground Return) sequence checking	08-08-2016 19:54	3:51:00	0
9	Biswanath Chariali-Agra Pole-I	HVDC	NER/NR	SO	09-08-2016 12:38	MR (Metallic Return)-GR (Ground Return) sequence checking	09-08-2016 13:32	0:54:00	0
10	Biswanath Chariali-Agra Pole-I	HVDC	NER/NR	TP	10-08-2016 13:57	Tripped during testing work at Agra	10-08-2016 19:11	5:14:00	1
11	Biswanath Chariali-Agra Pole-I	HVDC	NER/NR	SO	13-08-2016 11:30	Y-phase neutral bus fault testing	13-08-2016 21:58	10:28:00	1
12	Biswanath Chariali-Agra Pole-I	HVDC	NER/NR	TP	17-08-2016 15:32	Trip during bipole testing at BNC end.	17-08-2016 16:39	1:07:00	2
13	Biswanath Chariali-Agra Pole-I	HVDC	NER/NR	SO	18-08-2016 11:36	to test whether the filters are getting out	18-08-2016 12:26	0:50:00	2
14	Biswanath Chariali-Agra Pole-I	HVDC	NER/NR	TS	24-08-2016 12:56	Tripped due to auxillary supply failure during testing.	24-08-2016 15:19	2:23:00	3
15	Biswanath Chariali-Agra Pole-I	HVDC	NER/NR	SC	30-08-2016 08:49	for diversion works of line by Powergrid due to UPEIDA works of Agra-Lucknow exp.	01-09-2016 00:00	39:11:00	3
HVDC - Internal									
16	Balia-Bhiwadi Pole-I	HVDC	NR	SC	11-08-2016 08:49	For diversion works of line by Powergrid on continuous basis due to UPEIDA works	12-08-2016 19:53	35:04:00	0
17	Balia-Bhiwadi Pole-II	HVDC	NR	SC	11-08-2016 08:49	For diversion works of line by Powergrid on continuous basis due to UPEIDA works	12-08-2016 19:53	35:04:00	0
18	Rihand-Dadri Pole-II	HVDC	NR	SO	16-08-2016 08:38	For replacement of complete snubber capacitors in valve hall at Rihand end	21-08-2016 17:32	128:54:00	0
19	Balia-Bhiwadi Pole-I	HVDC	NR	TP	17-08-2016 13:42	Tripped due to change over Logic problem at Balia.	17-08-2016 14:25	0:43:00	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
20	Balia-Bhiwadi Pole-II	HVDC	NR	TP	17-08-2016 13:42	Tripped due to change over Logic problem at Balia.	17-08-2016 14:25	0:43:00	1
21	Balia-Bhiwadi Pole-I	HVDC	NR	SC	26-08-2016 08:16	2nd Diversion works of line by Powergrid due to UPEIDA construction works of Agra-Lucknow	28-08-2016 21:39	61:23:00	1
22	Balia-Bhiwadi Pole-II	HVDC	NR	SC	26-08-2016 08:16	2nd Diversion works of line by Powergrid due to UPEIDA construction works of Agra-Lucknow	28-08-2016 21:39	61:23:00	1
23	Balia-Bhiwadi Pole-I	HVDC	NR	SE	30-08-2016 12:29	Manually Blocked due to abnormal spikes in PMU. After investigation it was found that 400 kV Bus	30-08-2016 14:36	2:07:00	1
24	Balia-Bhiwadi Pole-II	HVDC	NR	SE	30-08-2016 12:29	Manually Blocked due to abnormal spikes in PMU. After investigation it was found that 400 kV Bus	30-08-2016 14:57	2:28:00	1
765 kV - IR									
25	765 kV Sasaram-Fatehpur	Line	ER/NR	SO	20-08-2016 12:22	To attend hot spot	20-08-2016 14:40	2:18:00	0
26	765 kV Gaya-Varanasi-II	Line	ER/NR	SO	13-08-2016 08:41	For replacement of damaged insulators	13-08-2016 19:09	10:28:00	0
27	765 kV Gaya-Balia	Line	ER/NR	SE	10-08-2016 00:59	Due to fire in yard at Balia.	10-08-2016 03:04	2:05:00	0
28	765 kV Solapur-Raichur-II	Line	WR/SR	SO	01-08-2016 10:24	To attend hotspots	01-08-2016 19:10	8:46:00	0
765 kV Internal									
29	765kV Phagi-Bhiwani-I	Line	NR	SC	25-08-2016 09:51	To carry out stringing work of ckt-II in D/C tower portion	29-08-2016 19:21	105:30:00	0
30	765kV Phagi-Bhiwani-I	Line	NR	SC	25-08-2016 09:51	Ckt-II stringing works	29-08-2016 19:21	105:30:00	0
31	765kV Moga-Bhiwani(PG)	Line	NR	SO	05-08-2016 08:54	Anuual maintenance	05-08-2016 18:39	9:45:00	0
32	765kV Meerut-Bhiwani(PG)	Line	NR	MO	01-08-2016 06:21	Opened manually due to High Voltage	02-08-2016 09:39	27:18:00	0
33	765kV Meerut-Bhiwani(PG)	Line	NR	MO	11-08-2016 08:13	Opened manually due to High Voltage	11-08-2016 10:58	2:45:00	0
34	765kV Meerut-Bhiwani(PG)	Line	NR	MO	12-08-2016 05:31	Opened manually due to High Voltage	12-08-2016 09:30	3:59:00	0
35	765kV Meerut-Bhiwani(PG)	Line	NR	MO	13-08-2016 05:42	Opened manually due to High Voltage	13-08-2016 11:49	6:07:00	0
36	765kV Meerut-Bhiwani(PG)	Line	NR	MO	26-08-2016 06:15	Opened manually due to High Voltage	26-08-2016 12:11	5:56:00	0
37	765kV Meerut-Bhiwani(PG)	Line	NR	MO	30-08-2016 04:14	Opened manually due to High Voltage	30-08-2016 09:19	5:05:00	0
38	765kV Kanpur-Varanasi-II	Line	NR	TP	05-08-2016 16:18	PLCC maloperation	05-08-2016 17:31	1:13:00	1
39	765kV Kanpur-Varanasi-I	Line	NR	TP	05-08-2016 16:18	PLCC maloperation	05-08-2016 17:12	0:54:00	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
40	765kV Kanpur-Jhatikara	Line	NR	SO	03-08-2016 12:32	For inspection/ rectification/replacement of problem in the PRV of non-switchable L/Reactor of	03-08-2016 19:05	6:33:00	0
41	765kV Kanpur-Jhatikara	Line	NR	TP	06-08-2016 18:03	PLCC maloperation	07-08-2016 00:01	5:58:00	1
42	765kV Kanpur-Jhatikara	Line	NR	TL	16-08-2016 03:36	Distance Protection Operated	16-08-2016 10:15	6:39:00	2
43	765kV Kanpur-Jhatikara	Line	NR	TP	24-08-2016 11:35	tripped due to Line reactor problem at Jhatikara end	24-08-2016 14:55	3:20:00	3
44	765kV Kanpur-Jhatikara	Line	NR	TL	24-08-2016 16:57	Distance Protection Operated	24-08-2016 18:27	1:30:00	4
45	765kV G'Noida-Meerut	Line	NR	MO	10-08-2016 07:42	Opened manually due to High Voltage	10-08-2016 23:35	15:53:00	0
46	765kV Fatehpur-Agra-II	Line	NR	MO	03-08-2016 03:46	Opened manually due to High Voltage	03-08-2016 11:29	7:43:00	0
47	765kV Fatehpur-Agra-II	Line	NR	MO	11-08-2016 05:02	Opened manually due to High Voltage	12-08-2016 12:05	31:03:00	0
48	765kV Fatehpur-Agra-II	Line	NR	MO	13-08-2016 05:41	Opened manually due to High Voltage	13-08-2016 12:28	6:47:00	0
49	765kV Fatehpur-Agra-II	Line	NR	MO	14-08-2016 08:18	Opened manually due to High Voltage	16-08-2016 12:20	52:02:00	0
50	765kV Fatehpur-Agra-II	Line	NR	MO	17-08-2016 04:08	Opened manually due to High Voltage	17-08-2016 09:55	5:47:00	0
51	765kV Fatehpur-Agra-II	Line	NR	MO	17-08-2016 17:13	Opened manually due to High Voltage	21-08-2016 11:21	90:08:00	0
52	765kV Fatehpur-Agra-II	Line	NR	MO	28-08-2016 07:26	Opened manually due to High Voltage	29-08-2016 12:59	29:33:00	0
53	765kV Fatehpur-Agra-II	Line	NR	MO	31-08-2016 08:26	Opened manually due to High Voltage	01-09-2016 00:00	15:34:00	0
54	765kV Fatehpur-Agra-I	Line	NR	SC	21-08-2016 06:31	For stringing (Power line crossing) of LILO section of 400kv Agra-Muradnagar line at Agra UP 765	21-08-2016 21:18	14:47:00	0
55	765kV Fatehpur-Agra-I	Line	NR	SC	22-08-2016 10:55	For stringing (Power line crossing) of LILO section of 400kv Agra-Muradnagar line at Agra UP 765	22-08-2016 17:12	6:17:00	0
56	765kV Fatehpur-Agra-I	Line	NR	MO	23-08-2016 06:13	Opened manually due to High Voltage	24-08-2016 14:25	32:12:00	0
57	765kV Fatehpur-Agra-I	Line	NR	MO	27-08-2016 06:17	Opened manually due to High Voltage	27-08-2016 12:27	6:10:00	0
58	765kV Fatehpur-Agra-I	Line	NR	MO	28-08-2016 04:26	Opened manually due to High Voltage	28-08-2016 15:14	10:48:00	0
59	765kV Fatehpur-Agra-I	Line	NR	MO	30-08-2016 04:16	Opened manually due to High Voltage	30-08-2016 09:18	5:02:00	0
60	765kV Balia-Varanasi	Line	NR	TL	05-08-2016 14:27	Distance Protection Operated	05-08-2016 15:07	0:40:00	1
61	765kV Balia-Varanasi	Line	NR	TP	08-08-2016 14:49	Relay malfunction at Varanasi end	08-08-2016 15:11	0:22:00	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
62	765kV Balia-Lucknow	Line	NR	SE	10-08-2016 00:59	Due to fire in yard at Balia.	10-08-2016 02:51	1:52:00	0
63	765kV Balia-Lucknow	Line	NR	SO	10-08-2016 16:24	Replacement of CVT.	10-08-2016 17:08	0:44:00	0
64	765kV Anpara C-Unnao	Line	NR	SE	12-08-2016 12:00	To take line reactor In service	12-08-2016 13:16	1:16:00	0
65	765kV Anpara C-Unnao	Line	NR	TP	30-08-2016 11:49	B ph line reactor at Anpara-C tripped on PRD protection	30-08-2016 13:41	1:52:00	1
66	765kV Agra-Jhatikara	Line	NR	TL	17-08-2016 06:57	Distance Protection Operated	17-08-2016 07:34	0:37:00	1
67	765kV Agra-Jhatikara	Line	NR	SE	24-08-2016 17:24	To attend hanging tower member at loc no 405	24-08-2016 18:35	1:11:00	1
68	765kV Agra-G'Noida	Line	NR	TL	02-08-2016 17:55	Distance Protection Operated	02-08-2016 22:29	4:34:00	1
69	765kV Agra-G'Noida	Line	NR	SO	09-08-2016 11:56	Cross arm of tower no 40 A has been damaged.	10-08-2016 23:18	35:22:00	1
70	765 kV Moga-Meerut	Line	NR	MO	01-08-2016 00:00	Opened manually due to High Voltage	01-08-2016 20:38	20:38:00	0
71	765 kV Moga-Meerut	Line	NR	MO	07-08-2016 07:10	Opened manually due to High Voltage	09-08-2016 13:03	53:53:00	0
72	765 kV Moga-Meerut	Line	NR	TP	10-08-2016 13:59	During testing work	10-08-2016 14:12	0:13:00	1
73	765 kV Moga-Meerut	Line	NR	MO	11-08-2016 08:05	Opened manually due to High Voltage	16-08-2016 09:31	121:26:00	1
74	765 kV Moga-Meerut	Line	NR	MO	17-08-2016 04:20	Opened manually due to High Voltage	17-08-2016 11:29	7:09:00	1
75	765 kV Moga-Meerut	Line	NR	MO	21-08-2016 06:36	Opened manually due to High Voltage	22-08-2016 11:29	28:53:00	1
76	765 kV Moga-Meerut	Line	NR	MO	31-08-2016 06:09	Opened manually due to High Voltage	31-08-2016 14:46	8:37:00	1
77	765kV Angul-Jharsuguda-II	Line	ER	SE	13-08-2016 13:45	To attend hotspots	13-08-2016 18:31	4:46:00	0
78	765kV Wardha-Aurangabad-IV	Line	WR	MO	02-08-2016 20:01	Opened manually due to High Voltage	04-08-2016 07:34	35:33:00	0
79	765kV Wardha-Aurangabad-IV	Line	WR	MO	09-08-2016 11:41	Opened manually due to High Voltage	11-08-2016 19:01	55:20:00	0
80	765kV Wardha-Aurangabad-IV	Line	WR	SO	02-08-2016 10:25	For AMP works	02-08-2016 20:01	9:36:00	0
81	765kV Wardha-Aurangabad-IV	Line	WR	MO	24-08-2016 17:27	Opened manually due to High Voltage	27-08-2016 07:50	62:23:00	0
82	765kV Wardha-Aurangabad-III	Line	WR	MO	01-08-2016 00:00	Opened manually due to High Voltage	02-08-2016 10:14	34:14:00	0
83	765kV Wardha-Aurangabad-III	Line	WR	MO	04-08-2016 13:09	Opened manually due to High Voltage	09-08-2016 08:15	115:06:00	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	TV	11-08-2016 18:02	Tripped on Over Voltage	16-08-2016 08:12	110:10:00	1
85	765kV Wardha-Aurangabad-III	Line	WR	MO	16-08-2016 11:58	Opened manually due to High Voltage	19-08-2016 07:19	67:21:00	1
86	765kV Wardha-Aurangabad-III	Line	WR	MO	19-08-2016 15:19	Opened manually due to High Voltage	21-08-2016 05:36	38:17:00	1
87	765kV Wardha-Aurangabad-III	Line	WR	MO	21-08-2016 16:20	Opened manually due to High Voltage	24-08-2016 08:04	63:44:00	1
88	765kV Wardha-Aurangabad-III	Line	WR	MO	28-08-2016 15:44	Opened manually due to High Voltage	31-08-2016 06:42	62:58:00	1
89	765kV Wardha-Aurangabad-III	Line	WR	MO	31-08-2016 18:11	Opened manually due to High Voltage	01-09-2016 00:00	5:49:00	1
90	765kV Wardha-Aurangabad-II	Line	WR	MO	26-08-2016 23:16	Opened manually due to High Voltage	28-08-2016 06:00	30:44:00	0
91	765kV Wardha-Aurangabad-II	Line	WR	MO	30-08-2016 21:26	Opened manually due to High Voltage	01-09-2016 00:00	26:34:00	0
92	765kV Wardha-Aurangabad-I	Line	WR	MO	01-08-2016 00:00	Opened manually due to High Voltage	05-08-2016 07:30	103:30:00	0
93	765kV Wardha-Aurangabad-I	Line	WR	TV	05-08-2016 11:43	Tripped on Over Voltage	11-08-2016 07:55	140:12:00	1
94	765kV Wardha-Aurangabad-I	Line	WR	TV	11-08-2016 12:59	Tripped on Over Voltage	13-08-2016 07:38	42:39:00	2
95	765kV Wardha-Aurangabad-I	Line	WR	MO	13-08-2016 13:04	Opened manually due to High Voltage	18-08-2016 07:31	114:27:00	2
96	765kV Wardha-Aurangabad-I	Line	WR	MO	18-08-2016 17:10	Opened manually due to High Voltage	20-08-2016 06:36	37:26:00	2
97	765kV Wardha-Aurangabad-I	Line	WR	MO	20-08-2016 16:48	Opened manually due to High Voltage	22-08-2016 07:32	38:44:00	2
98	765kV Wardha-Aurangabad-I	Line	WR	MO	22-08-2016 17:59	Opened manually due to High Voltage	23-08-2016 07:08	13:09:00	2
99	765kV Wardha-Aurangabad-I	Line	WR	TV	23-08-2016 18:01	Tripped on Over Voltage	25-08-2016 07:06	37:05:00	3
100	765kV Wardha-Aurangabad-I	Line	WR	MO	25-08-2016 16:39	Opened manually due to High Voltage	26-08-2016 06:45	14:06:00	3
101	765kV Wardha-Aurangabad-I	Line	WR	MO	29-08-2016 23:46	Opened manually due to High Voltage	30-08-2016 06:22	6:36:00	3
102	765kV Vindhychal-Satna-II	Line	WR	SO	02-08-2016 10:01	Integration & Switching operation of spare reactor with Satna-2 Line Reactor at vindhyachal ps	02-08-2016 19:37	9:36:00	0
103	765kV Vindhychal-Satna-II	Line	WR	SO	03-08-2016 09:14	Integration & Switching operation of spare reactor with Satna-2 Line Reactor at vindhyachal ps	03-08-2016 21:50	12:36:00	0
104	765kV Vindhychal-Satna-I	Line	WR	TS	08-08-2016 10:04	Tripped due to Y-Ph CB of Tie Bay blast at 765kV Satna S/s	08-08-2016 11:01	0:57:00	1
105	765kV Vindhychal-Satna-I	Line	WR	SO	09-08-2016 10:01	For CSD Commissioning Work	09-08-2016 21:33	11:32:00	1

S. No.	Name of Transmission Element	Type of the element	Region Involved	Fault Type	Tripping Date and Time	Brief Reason/Relay Indication	Restoration Date and Time	Duration	Number of Cumulative tripping in the month
106	765kV Seoni-Wardha-II	Line	WR	TV	04-08-2016 13:03	Tripped on Over Voltage	08-08-2016 08:00	90:57:00	1
107	765kV Seoni-Bilaspur-I	Line	WR	SO	23-08-2016 13:25	RTV COATING WORKS OF L/R AT BILASPUR, REPLACING SINGLE PHASE REACTOR WITH SPARE	23-08-2016 14:45	1:20:00	0
108	765kV Satna-Gwalior-II	Line	WR	TS	08-08-2016 10:04	Tripped due to Y-Ph CB of Tie Bay blast at 765kV Satna S/s	08-08-2016 10:53	0:49:00	1
109	765kV Satna-Gwalior-II	Line	WR	SO	31-08-2016 10:24	Switching of R-Ph to spare-Ph for RTV Coating in R-Ph Reactor	31-08-2016 11:16	0:52:00	1
110	765kV Satna-Gwalior-I	Line	WR	SO	27-08-2016 11:03	Switching of R-Ph to spare-Ph for RTV Coating in R-Ph Reactor	27-08-2016 14:04	3:01:00	0
111	765kV Satna-Gwalior-I	Line	WR	SO	29-08-2016 09:48	Switching of Y-Ph to spare-Ph for RTV Coating in Y-Ph Reactor	29-08-2016 11:05	1:17:00	0
112	765kV Satna-Gwalior-I	Line	WR	SO	30-08-2016 10:19	Switching of B-Ph to spare-Ph for RTV Coating in B-Ph Reactor at Gwalior	30-08-2016 11:46	1:27:00	0
113	765kV Satna-Gwalior-I	Line	WR	TL	30-08-2016 17:04	Distance Protection Operated	30-08-2016 17:38	0:34:00	1
114	765kV Raigarh-PS(Kotra)-Raipur-PS(Durg)-II	Line	WR	MO	01-08-2016 00:00	Opened manually due to High Voltage	05-08-2016 08:01	104:01:00	0
115	765kV Raigarh-PS(Kotra)-Raipur-PS(Durg)-I	Line	WR	MO	07-08-2016 08:34	Opened manually due to High Voltage	10-08-2016 10:23	73:49:00	0
116	765kV Pune-Sholapur	Line	WR	MO	01-08-2016 00:00	Opened manually due to High Voltage	01-08-2016 07:20	7:20:00	0
117	765kV Pune-Sholapur	Line	WR	TV	01-08-2016 12:55	Tripped on Over Voltage	08-08-2016 11:41	166:46:00	1
118	765kV Pune-Sholapur	Line	WR	MO	08-08-2016 17:05	Opened manually due to High Voltage	10-08-2016 11:52	42:47:00	1
119	765kV Pune-Sholapur	Line	WR	MO	10-08-2016 21:29	Opened manually due to High Voltage	12-08-2016 07:00	33:31:00	1
120	765kV Pune-Sholapur	Line	WR	MO	12-08-2016 21:34	Opened manually due to High Voltage	19-08-2016 10:21	156:47:00	1
121	765kV Pune-Sholapur	Line	WR	MO	19-08-2016 21:45	Opened manually due to High Voltage	20-08-2016 06:41	8:56:00	1
122	765kV Pune-Sholapur	Line	WR	MO	25-08-2016 22:27	Opened manually due to High Voltage	26-08-2016 07:39	9:12:00	1
123	765kV Pune-Sholapur	Line	WR	MO	28-08-2016 17:17	Opened manually due to High Voltage	29-08-2016 06:03	12:46:00	1
124	765kV Pune-Sholapur	Line	WR	MO	29-08-2016 21:35	Opened manually due to High Voltage	31-08-2016 12:04	38:29:00	1
125	765kV Pune-Sholapur	Line	WR	MO	31-08-2016 18:26	Opened manually due to High Voltage	01-09-2016 00:00	5:34:00	1
126	765kV Jabalpur-Dharamjaigarh-IV	Line	WR	TL	27-08-2016 03:40	Distance Protection Operated	27-08-2016 05:45	2:05:00	1
127	765kV Jabalpur-Dharamjaigarh-III	Line	WR	TL	27-08-2016 03:40	Distance Protection Operated	27-08-2016 16:46	13:06:00	1

S. No.	Name of Transmission Element	Type of the element	Region Involved	Fault Type	Tripping Date and Time	Brief Reason/Relay Indication	Restoration Date and Time	Duration	Number of Cumulative tripping in the month
128	765kV Jabalpur-Dharamjaigarh-II	Line	WR	SO	08-08-2016 11:57	For CSD Commissioning Work	08-08-2016 22:30	10:33:00	0
129	765kV Jabalpur-Dharamjaigarh-II	Line	WR	MO	24-08-2016 08:48	Opened manually due to High Voltage	30-08-2016 10:24	145:36:00	0
130	765kV Jabalpur-Dharamjaigarh-I	Line	WR	MO	01-08-2016 00:00	Opened manually due to High Voltage	01-08-2016 10:30	10:30:00	0
131	765kV Jabalpur-Dharamjaigarh-I	Line	WR	SO	01-08-2016 10:30	For CSD Commissioning	01-08-2016 23:48	13:18:00	0
132	765kV Jabalpur-Dharamjaigarh-I	Line	WR	MO	30-08-2016 07:46	Opened manually due to High Voltage	01-09-2016 00:00	40:14:00	0
133	765kV Durg-Wardha-II	Line	WR	SO	12-08-2016 09:56	To attend broken jumper	12-08-2016 17:55	7:59:00	0
134	765kV Durg-Wardha-I	Line	WR	MO	02-08-2016 00:22	Opened manually due to High Voltage	02-08-2016 06:58	6:36:00	0
135	765kV Durg-Wardha-I	Line	WR	MO	02-08-2016 23:18	Opened manually due to High Voltage	03-08-2016 07:18	8:00:00	0
136	765kV Durg-Wardha-I	Line	WR	SE	10-08-2016 14:18	To attend hot spot on wave trap at Wardha	10-08-2016 16:26	2:08:00	0
137	765kV Durg-Wardha-I	Line	WR	SE	29-08-2016 09:38	Jumper snapped	29-08-2016 19:16	9:38:00	0
138	765kV Durg-Wardha-I	Line	WR	SE	31-08-2016 16:27	MANUALLY H/T DUE TO Sparking in B ph Wavetrap at Wardha End.	31-08-2016 23:15	6:48:00	0
139	765kV Dhule-Vadodara	Line	WR	MO	01-08-2016 00:00	Opened manually due to High Voltage	02-08-2016 10:40	34:40:00	0
140	765kV Dhule-Vadodara	Line	WR	SO	02-08-2016 10:40	Isolator Work at Vadodara	02-08-2016 14:47	4:07:00	0
141	765kV Dhule-Vadodara	Line	WR	MO	02-08-2016 14:47	Opened manually due to High Voltage	03-08-2016 09:53	19:06:00	0
142	765kV Dhule-Vadodara	Line	WR	MO	03-08-2016 18:13	Opened manually due to High Voltage	04-08-2016 06:09	11:56:00	0
143	765kV Dhule-Vadodara	Line	WR	MO	04-08-2016 21:25	Opened manually due to High Voltage	05-08-2016 05:54	8:29:00	0
144	765kV Dhule-Vadodara	Line	WR	MO	05-08-2016 21:41	Opened manually due to High Voltage	08-08-2016 07:55	58:14:00	0
145	765kV Dhule-Vadodara	Line	WR	MO	08-08-2016 23:49	Opened manually due to High Voltage	09-08-2016 11:26	11:37:00	0
146	765kV Dhule-Vadodara	Line	WR	MO	09-08-2016 23:42	Opened manually due to High Voltage	10-08-2016 07:23	7:41:00	0
147	765kV Dhule-Vadodara	Line	WR	MO	10-08-2016 23:02	Opened manually due to High Voltage	11-08-2016 09:29	10:27:00	0
148	765kV Dhule-Vadodara	Line	WR	MO	11-08-2016 23:10	Opened manually due to High Voltage	12-08-2016 06:37	7:27:00	0
149	765kV Dhule-Vadodara	Line	WR	MO	12-08-2016 23:32	Opened manually due to High Voltage	13-08-2016 06:26	6:54:00	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 Dhule-Vadodara	Line	WR	MO	13-08-2016 23:35	Opened manually due to High Voltage	16-08-2016 07:29	55:54:00	0
151	765kV Bina-Jabalpur-III	Line	WR	MO	04-08-2016 01:10	Opened manually due to High Voltage	10-08-2016 13:36	156:26:00	0
152	765kV Bina-Indore	Line	WR	TV	23-08-2016 15:37	Tripped on Over Voltage	23-08-2016 16:40	1:03:00	1
153	765kV Bina-Gwalior-III	Line	WR	MO	01-08-2016 00:00	Opened manually due to High Voltage	03-08-2016 21:47	69:47:00	0
154	765kV Bina-Gwalior-III	Line	WR	MO	11-08-2016 07:57	Opened manually due to High Voltage	21-08-2016 21:06	253:09:00	0
155	765kV Bina-Gwalior-III	Line	WR	SE	24-08-2016 16:48	RTV COATING WORKS	24-08-2016 18:15	1:27:00	0
156	765kV Bina-Gwalior-III	Line	WR	SO	25-08-2016 13:05	For RTV coating Bina# 3 L/R at Gwalior S/S	25-08-2016 14:37	1:32:00	0
157	765kV Bina-Gwalior-I	Line	WR	MO	28-08-2016 08:32	Opened manually due to High Voltage	28-08-2016 13:19	4:47:00	0
158	765kV Bilaspur-Dharamjaigarh	Line	WR	TP	03-08-2016 12:54	Tripped due to DT received at Bilaspur	03-08-2016 13:22	0:28:00	1
159	765kV Aurangabad-Sholapur-II	Line	WR	SC	12-08-2016 08:15	ERECTION AND COMMISSIOINING OF NGR at Solapur	12-08-2016 20:42	12:27:00	0
160	765kV Aurangabad-Sholapur-I	Line	WR	TV	01-08-2016 13:01	Tripped due to Over Voltage	01-08-2016 19:46	6:45:00	1
161	765kV Aurangabad-Sholapur-I	Line	WR	SC	10-08-2016 08:51	ERECTION AND COMMISSIOINING OF NGR at Solapur	10-08-2016 21:19	12:28:00	1
162	765kV Aurangabad-Dhule(BDTCL)	Line	WR	TP	03-08-2016 14:06	Tripped due to DT received	03-08-2016 14:23	0:17:00	1
163	765kV Aurangabad-Dhule(BDTCL)	Line	WR	MO	11-08-2016 18:27	Opened manually due to High Voltage	11-08-2016 19:19	0:52:00	1
164	765 kV Kotra-Champa-I	Line	WR	MO	05-08-2016 01:05	Opened manually due to High Voltage	07-08-2016 09:23	56:18:00	0
165	765 kV Durg-Champa-I	Line	WR	MO	05-08-2016 01:10	Opened manually due to High Voltage	07-08-2016 11:18	58:08:00	0
166	765kV Raichur-Kurnool-II	Line	SR	MO	01-08-2016 00:00	Opened manually due to High Voltage	01-08-2016 06:57	6:57:00	0
167	765kV Raichur-Kurnool-II	Line	SR	MO	01-08-2016 18:24	Opened manually due to High Voltage	03-08-2016 06:43	36:19:00	0
168	765kV Raichur-Kurnool-II	Line	SR	MO	03-08-2016 11:40	Opened manually due to High Voltage	03-08-2016 17:31	5:51:00	0
169	765kV Raichur-Kurnool-II	Line	SR	MO	04-08-2016 00:37	Opened manually due to High Voltage	04-08-2016 06:33	5:56:00	0
170	765kV Raichur-Kurnool-II	Line	SR	MO	05-08-2016 01:00	Opened manually due to High Voltage	05-08-2016 05:47	4:47:00	0
171	765kV Raichur-Kurnool-II	Line	SR	MO	06-08-2016 00:12	Opened manually due to High Voltage	06-08-2016 06:00	5:48:00	0

S. No.	Name of Transmission Element	Type of the element	Region Involved	Fault Type	Tripping Date and Time	Brief Reason/Relay Indication	Restoration Date and Time	Duration	Number of Cumulative tripping in the month
172	765kV Raichur-Kurnool-II	Line	SR	MO	07-08-2016 03:08	Opened manually due to High Voltage	08-08-2016 07:33	28:25:00	0
173	765kV Raichur-Kurnool-II	Line	SR	MO	31-08-2016 03:11	Opened manually due to High Voltage	31-08-2016 06:53	3:42:00	0
174	765kV Kurnool-Thiruvalem-II	Line	SR	MO	01-08-2016 00:00	Opened manually due to High Voltage	02-08-2016 10:28	34:28:00	0
175	765kV Kurnool-Thiruvalem-II	Line	SR	MO	03-08-2016 00:58	Opened manually due to High Voltage	01-09-2016 00:00	695:02:00	0
176	765kV Kurnool-Thiruvalem-I	Line	SR	MO	01-08-2016 00:46	Opened manually due to High Voltage	01-08-2016 07:17	6:31:00	0
177	765kV Kurnool-Thiruvalem-I	Line	SR	MO	01-08-2016 23:08	Opened manually due to High Voltage	02-08-2016 10:28	11:20:00	0
178	765kV Kurnool-Nellore(PS)-II	Line	SR	MO	01-08-2016 00:00	Opened manually due to High Voltage	11-08-2016 10:32	250:32:00	0
179	765kV Kurnool-Nellore(PS)-I	Line	SR	MO	13-08-2016 21:53	Opened manually due to High Voltage	01-09-2016 00:00	434:07:00	0
400kV - IR									
180	400 kV Zerda-Bhinmal	Line	WR/NR	TL	31-08-2016 17:39	Distance Protection Operated	01-09-2016 00:00	6:21:00	1
181	400 kV Tala - Binaguri - IV	Line	Bhutan	SO	01-08-2016 10:43	For testing of L/R at Binaguri end	01-08-2016 20:30	9:47:00	0
182	400 kV Tala - Binaguri - IV	Line	Bhutan	TL	16-08-2016 10:18	Distance Protection Operated	16-08-2016 12:34	2:16:00	1
183	400 kV Tala - Binaguri - II	Line	Bhutan	TL	14-08-2016 13:05	Distance Protection Operated	17-08-2016 21:34	80:29:00	1
184	400 kV Tala - Binaguri - I	Line	Bhutan	TL	14-08-2016 13:05	Distance Protection Operated	14-08-2016 13:31	0:26:00	1
185	400 kV Sterlite-Raigarh	Line	ER/WR	TL	30-08-2016 15:56	Distance Protection Operated	30-08-2016 16:27	0:31:00	1
186	400 kV Siliguri-Bongaigaon-IV	Line	ER/NER	SE	16-08-2016 14:20	Conductor Breakdown	16-08-2016 18:25	4:05:00	0
187	400 kV Siliguri-Bongaigaon-IV	Line	ER/NER	TL	18-08-2016 20:41	Distance Protection Operated	19-08-2016 19:42	23:01:00	1
188	400 kV Siliguri-Bongaigaon-III	Line	ER/NER	TL	14-08-2016 13:14	Distance Protection Operated	14-08-2016 21:47	8:33:00	1
189	400 kV Siliguri-Bongaigaon-I	Line	ER/NER	SO	01-08-2016 00:00	Distance Protection Operated	02-08-2016 14:47	38:47:00	0
190	400 kV Siliguri-Bongaigaon-I	Line	ER/NER	SE	02-08-2016 18:12	due to de-capping of insulator at Loc 63.	06-08-2016 15:51	93:39:00	0
191	400 kV Siliguri-Bongaigaon-I	Line	ER/NER	TL	11-08-2016 12:45	Distance Protection Operated	11-08-2016 21:19	8:34:00	1
192	400 kV Siliguri-Bongaigaon-I	Line	ER/NER	MO	13-08-2016 11:21	Opened manually due to High Voltage	13-08-2016 13:58	2:37:00	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
193	400 kV Siliguri-Bongaigaon-I	Line	ER/NER	SO	26-08-2016 17:15	To take L/R into service	26-08-2016 19:35	2:20:00	1
194	400 kV Rourkela-Raigarh	Line	ER/WR	SE	27-08-2016 10:17	To attend insulator de-capping	27-08-2016 20:47	10:30:00	0
195	400 kV Patna-Balia-II	Line	ER/NR	SO	05-08-2016 09:55	For commissioning of NGR by-passing scheme of L/R	05-08-2016 15:43	5:48:00	0
196	400 kV Patna-Balia-I	Line	ER/NR	MO	18-08-2016 06:22	Opened manually due to High Voltage	19-08-2016 12:41	30:19:00	0
197	400 kV Muzaffarpur-Gorakhpur-II	Line	ER/NR	SC	03-08-2016 08:45	Construction of new element / For stringing (Power line crossing) of 400kv LILo lines of 400kv	03-08-2016 22:03	13:18:00	0
198	400 kV Muzaffarpur-Gorakhpur-II	Line	ER/NR	SC	04-08-2016 08:30	Construction of new element / For stringing (Power line crossing) of 400kv LILo lines of 400kv	04-08-2016 20:53	12:23:00	0
199	400 kV Muzaffarpur-Gorakhpur-I	Line	ER/NR	SC	03-08-2016 08:44	Construction of new element / For stringing (Power line crossing) of 400kv LILo lines of 400kv	03-08-2016 21:25	12:41:00	0
200	400 kV Muzaffarpur-Gorakhpur-I	Line	ER/NR	SC	04-08-2016 08:24	Construction of new element / For stringing (Power line crossing) of 400kv LILo lines of 400kv	04-08-2016 20:53	12:29:00	0
201	400 kV Jharsuguda-Raigarh-I	Line	ER/WR	TL	10-08-2016 05:22	Distance Protection Operated	10-08-2016 15:37	10:15:00	1
202	400 kV Barh-Gorakhpur-I	Line	ER/NR	TL	16-08-2016 12:49	Distance Protection Operated	16-08-2016 13:59	1:10:00	1
220 kV - IR									
203	220 kV Talangde-Chikkodi	Line	WR/SR	SE	20-08-2016 14:05	To attend hotspots	20-08-2016 17:00	2:55:00	0
204	220 kV Talangde-Chikkodi	Line	WR/SR	TL	23-08-2016 14:44	Distance Protection Operated	25-08-2016 16:12	49:28:00	1
205	220 kV Talangde-Chikkodi	Line	WR/SR	MO	01-09-2016 00:00	Due to no schedule	01-09-2016 00:00	0:00:00	1
206	220 kV Pusauli-Sahupuri	Line	ER/NR	TL	06-08-2016 07:02	Line opened due to sparking in 132 KV Sahupuri-Chunar	06-08-2016 09:27	2:25:00	1
207	220 kV Pusauli-Sahupuri	Line	ER/NR	TL	10-08-2016 19:18	Distance Protection Operated	12-08-2016 13:35	42:17:00	2
208	220 kV Mudasang (Kolhapur)-Chikkodi	Line	WR/SR	SE	22-08-2016 14:21	To attend hotspots	22-08-2016 19:35	5:14:00	0
209	220 kV Mudasang (Kolhapur)-Chikkodi	Line	WR/SR	MO	01-09-2016 00:00	Due to no schedule	01-09-2016 00:00	0:00:00	0
210	220 kV Mehgaon-Auraiya	Line	WR/NR	TL	14-08-2016 01:20	Distance Protection Operated	14-08-2016 03:32	2:12:00	1
211	220 kV Mehgaon-Auraiya	Line	WR/NR	TS	29-08-2016 08:54	Bus bar protection operated.	01-09-2016 00:00	63:06:00	2
212	220 kV Chukha - Birpara - II	Line	Bhutan	TS	25-08-2016 16:19	Due to tripping of Transformer 1&2 (20 MVA each) on differential prot'n, Units also tripped	25-08-2016 18:32	2:13:00	1
213	220 kV Chukha - Birpara - I	Line	Bhutan	TS	25-08-2016 16:19	Due to tripping of Transformer 1&2 (20 MVA each) on differential prot'n, Units also tripped	25-08-2016 19:21	3:02:00	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
214	220 kV Budhipadar-Raigarh	Line	ER/WR	SO	10-08-2016 10:44	Repair/Replacement of damaged YPhase P.I Drop Jumper	10-08-2016 16:17	5:33:00	0
215	220 kV Budhipadar-Korba-II	Line	ER/WR	TL	06-08-2016 11:16	Distance Protection Operated	06-08-2016 12:06	0:50:00	1
216	220 kV Budhipadar-Korba-II	Line	ER/WR	TL	19-08-2016 12:58	Distance Protection Operated	19-08-2016 13:30	0:32:00	2
217	220 kV Budhipadar-Korba-II	Line	ER/WR	TL	28-08-2016 19:28	Distance Protection Operated	29-08-2016 18:23	22:55:00	3
218	220 kV Budhipadar-Korba-II	Line	ER/WR	TL	30-08-2016 20:42	Distance Protection Operated	30-08-2016 22:39	1:57:00	4
219	220 kV Birpara-Salakati-II	Line	ER/NER	TL	26-08-2016 05:19	Distance Protection Operated	26-08-2016 05:45	0:26:00	1
220	220 kV Birpara-Salakati-I	Line	ER/NER	TL	29-08-2016 04:27	Distance Protection Operated	29-08-2016 04:53	0:26:00	1
221	220 kV Birpara-Salakati-I	Line	ER/NER	TL	31-08-2016 18:02	Distance Protection Operated	31-08-2016 19:14	1:12:00	2
222	220 kV Badod-Modak	Line	WR/NR	TL	20-08-2016 08:40	Tripped only from Modak end	20-08-2016 09:27	0:47:00	1
223	220 kV Badod-Kota	Line	WR/NR	TL	17-08-2016 12:04	Distance Protection Operated	17-08-2016 17:00	4:56:00	1
224	220 kV Badod-Kota	Line	WR/NR	TL	27-08-2016 21:19	Distance Protection Operated	27-08-2016 22:41	1:22:00	2
225	220 kV Badod-Kota	Line	WR/NR	SO	29-08-2016 13:44	To shift load on other bus	29-08-2016 13:49	0:05:00	2
765 kV Reactors & ICTs									
226	B/R-I at G'Noida	Bus Reactor	NR	SE	06-08-2016 10:32	To attend hot spot	01-09-2016 00:00	613:28:00	0
227	B/R-I at Ektuni	Bus Reactor	WR	SO	22-08-2016 12:19	for PRD inspection and checking of wiring	22-08-2016 15:35	3:16:00	0
228	B/R-I at Bhopal	Bus Reactor	WR	SO	23-08-2016 09:43	For Isolator Maintenance work.	23-08-2016 15:40	5:57:00	0
229	B/R-I at Bhopal	Bus Reactor	WR	SO	24-08-2016 10:06	For Isolator Maintenance work.	24-08-2016 18:13	8:07:00	0
230	B/R-I at Bilaspur	Bus Reactor	WR	SO	30-08-2016 08:54	For RTV coating on HV Bushing B Ph	30-08-2016 12:42	3:48:00	0
231	765/400 kV ICT-I at Unnao	ICT	NR	SO	01-08-2016 13:34	To replace defect control cable	01-08-2016 20:27	6:53:00	0
232	765/400 kV ICT-I at Antah	ICT	NR	TP	03-08-2016 11:16	R Phase PRV operated	03-08-2016 15:00	3:44:00	1
233	765/400 kV ICT-I at Phagi	ICT	NR	SO	05-08-2016 09:55	To get replaced / repaired the damaged T-clamp of 5" IPS Al. tube to suit quad Bull conductor of Y-	05-08-2016 20:36	10:41:00	0
234	765/400 kV ICT-I at Phagi	ICT	NR	SE	05-08-2016 22:17	sparkling in b-phase isolator on 765 kv side	06-08-2016 01:02	2:45:00	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
235	765/400 kV ICT-II at Bareilly	ICT	NR	TP	07-08-2016 06:28	WTI operated	07-08-2016 13:27	6:59:00	1
236	765/400 kV ICT-I at Phagi	ICT	NR	SE	08-08-2016 19:24	R phase ICT tripped on PRD protection.	08-08-2016 22:49	3:25:00	0
237	765/400 kV ICT-I at Antah	ICT	NR	SO	09-08-2016 10:44	Shutdown required for testing of 400/765KV,3X500 MVA ICTBank II	09-08-2016 17:19	6:35:00	1
238	765/400 kV ICT-III at Antah	ICT	NR	SO	10-08-2016 10:35	Shutdown required for testing of 400/765KV,3X500 MVA ICTBank II	10-08-2016 19:22	8:47:00	0
239	765/400 kV ICT-II at Antah	ICT	NR	SO	11-08-2016 10:51	For testing of 400 /765 KV ,3X500 MVA ICT Bank -II	11-08-2016 19:03	8:12:00	0
240	765/400 kV ICT-II at Unnao	ICT	NR	SE	12-08-2016 09:30	FOR REPLACEMENT OF CONTROL PANEL	12-08-2016 16:58	7:28:00	0
241	765/400 kV ICT-II at Phagi	ICT	NR	SO	17-08-2016 10:39	To get replaced the damaged T-clamp	17-08-2016 18:03	7:24:00	0
242	765/400 kV ICT-I at Bareilly	ICT	NR	SO	20-08-2016 11:35	Hotspot at R-ph bushing	20-08-2016 17:16	5:41:00	0
243	765/400 kV ICT-I at Phagi	ICT	NR	SE	22-08-2016 10:37	To get replaced the damaged T-clamp	22-08-2016 19:54	9:17:00	0
244	765/400 kV ICT-I at Moga	ICT	NR	SO	23-08-2016 10:41	For commissioning and testing of CSD Relay.	23-08-2016 14:19	3:38:00	0
245	765/400 kV ICT-II at Moga	ICT	NR	SO	24-08-2016 10:05	For commissioning and testing of CSD Relay.	24-08-2016 12:57	2:52:00	0
246	765/400 kV ICT-I at Fatehpur	ICT	NR	TS	29-08-2016 05:45	Sparking in CT	29-08-2016 11:25	5:40:00	1
247	765/400 kV ICT-II at Bhiwani	ICT	NR	TP	30-08-2016 14:14	Due to PRD operated.	30-08-2016 16:26	2:12:00	1
248	765/400 kV ICT-II at Jharsuguda	ICT	ER	TP	07-08-2016 07:18	Maloperation	07-08-2016 09:00	1:42:00	1
249	765/400 kV ICT-I at Angul	ICT	ER	SO	23-08-2016 09:27	AMP works	23-08-2016 19:23	9:56:00	0
250	765/400 kV ICT-I at Indore	ICT	WR	TP	03-08-2016 05:02	Buchholz relay operated	03-08-2016 09:11	4:09:00	1
251	765/400 kV ICT-II at Aurangabad(PG)	ICT	WR	SO	03-08-2016 10:44	For CSD Commissioning	03-08-2016 20:09	9:25:00	0
252	765/400 kV ICT-I at Champa	ICT	WR	SE	04-08-2016 11:29	Water Logging Problem	07-08-2016 11:30	72:01:00	0
253	765/400 kV ICT-II at Champa	ICT	WR	SE	04-08-2016 11:30	Water Logging Problem	07-08-2016 11:32	72:02:00	0
254	765/400 kV ICT-I at Vindhyachal PS	ICT	WR	SC	04-08-2016 11:41	Construction of new bay Fine tuning of CSD relay by M/s alstom at Vindhyachal PS	04-08-2016 20:54	9:13:00	0
255	765/400 kV ICT-I at Pune	ICT	WR	SO	06-08-2016 09:52	Interchanging of phase unit with spare to check healthiness	06-08-2016 14:44	4:52:00	0
256	765/400 kV ICT-I at Vindhyachal PS	ICT	WR	SE	06-08-2016 18:49	CSD Commissioning works	06-08-2016 22:00	3:11:00	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
257	765/400 kV ICT-II at Pune	ICT	WR	SO	08-08-2016 09:24	Interchanging of phase unit with spare to check healthiness	08-08-2016 13:10	3:46:00	0
258	765/400 kV ICT-II at Raigarh-PS(Kotra)	ICT	WR	SO	22-08-2016 10:21	AMP work at Kotra PS	22-08-2016 19:53	9:32:00	0
259	765/400 kV ICT-II at Vadodara	ICT	WR	SO	22-08-2016 11:46	Changeover of Spare ICT	22-08-2016 13:51	2:05:00	0
260	765/400 kV ICT-II at Dharamjaigarh	ICT	WR	SO	27-08-2016 10:35	For interchanging of unit with spare at D'jaigarh (Korba PG) s/s to ensure healthiness.	27-08-2016 13:48	3:13:00	0
261	765/400 kV ICT-I at Aurangabad(PG)	ICT	WR	TS	28-08-2016 22:27	R-PHASE BUCCHOLTZ RELAY OPERATED	29-08-2016 19:30	21:03:00	1
262	765/400 kV ICT-I at Raipur PS(Durg)	ICT	WR	SC	30-08-2016 10:03	For Erection of ICT-2 CB Tower beam & Peak works	30-08-2016 20:29	10:26:00	0

TL	TL= Tripping due to Line Fault	Total Number of 765 kV lines	98
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	117
SO	SO= Planned Shutdown for O&M activities	Total Number of 765 kV B/R	60
SE	SE= Emergency Shutdown	Grand Total	343
TP	TP= Protection Maloperation		
ME	ME= Miscellaneous outage		

**POWER SYSTEM OPERATION CORPORATION LIMITED
NATIONAL LOAD DESPATCH CENTRE
NEW DELHI**

System Reliability Indices Report for the month of August 2016

Date: 23-Sep-2016

Percentage (%) of times ATC was violated

S.No.	Corridor	Number of Blocks Violated	Number of Hours Violated	%Violation
1	WR-NR	210	52.50	7.06
2	ER-NR	0	0.00	0.00
3	Import of NR	296	74.00	9.95
4	NEW-SR	234	58.50	7.86
5	ER-NER	521	130.25	17.51

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

S.No.	Corridor	Number of Blocks Violated	Number of Hours Violated	%Violation
1	WR-NR	41	10.25	1.38
2	ER-NR	0	0.00	0.00
3	Import of NR	48	12.00	1.61
4	NEW-SR	10	2.50	0.34
4	ER-NER	411	102.75	13.81

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

पाँवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड

NATIONAL LOAD DESPATCH CENTRE – राष्ट्रीय भार प्रेषण केन्द्र

POWERGRID, B-9, Qutab Institutional Area,

Katwaria Sarai, New Delhi-110016.