

पावर सिस्टम ऑपरेशन कॉर्पोरेशन 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
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संदर्भ संख्या:-POSOCO/NLDC/GM/

दिनांक: 23.12.2016

सेवा में,

वितरण सूची के अनुसार

विषय:- निष्पादन रिपोर्ट - नवम्बर 2016

महोदय,

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

धन्यवाद

भवदीय

(एन. नल्लारसन)
23/12

उप महाप्रबंधक
(रा०भा०प्रे०के०)

संलग्नक: मासिक प्रणाली रिपोर्ट

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- 1 सचिव, के.वि.नि.आ. तीसरा एवं चौथा तल, चंद्रलोक भवन, 36, जनपथ, नई दिल्ली-110001
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- 8 महाप्रबंधक, पू. क्षे. भा. प्रे. के., 14, गोल्फ क्लब रोड, कोलकाता - 700033
General Manager, ERLDC, 14, Golf Club Road, Kolkata-700033
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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
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General Manager, NERLDC, Dongtiah, Lower Nongrah, Laplang, Shillong-793006



POWER SYSTEM OPERATION CORPORATION LIMITED

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पावर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड

NATIONAL LOAD DESPATCH CENTRE –राष्ट्रीय भार प्रेषण केन्द्र

मासिक ऑपरेशन रिपोर्ट

Monthly
Operation Report



नवम्बर 2016

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

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



माह नवम्बर 2016 के लिए प्रचालन निष्पादन रिपोर्ट
OPERATIONAL PERFORMANCE REPORT FOR THE
MONTH OF NOVEMBER 2016

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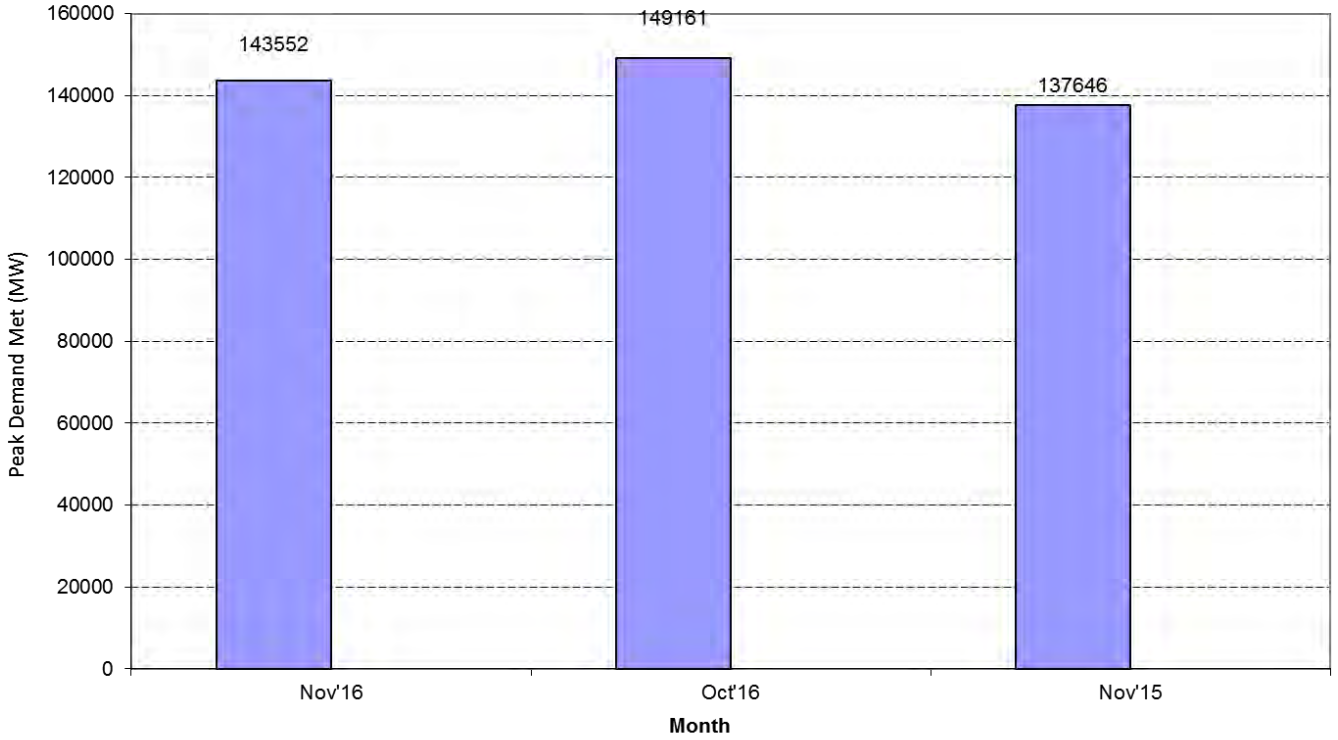
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1. SUMMARY OF REPORT FOR THE MONTH OF NOVEMBER 2016

Peak Demand Met

Decreased by 3.76% as compared to Oct 2016

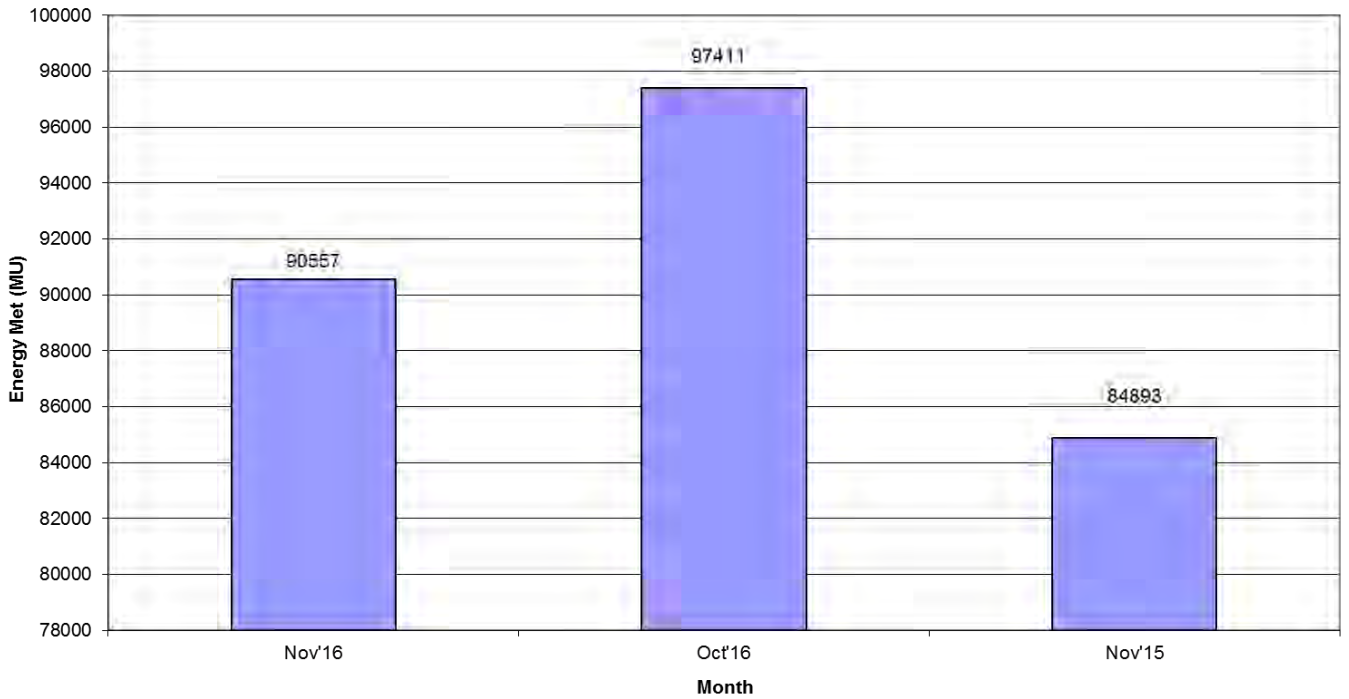
Increased by 4.29% as compared to Nov 2015



Energy Met

Decreased by 7.04% as compared to Oct 2016

Increased by 6.67% as compared to Nov 2015

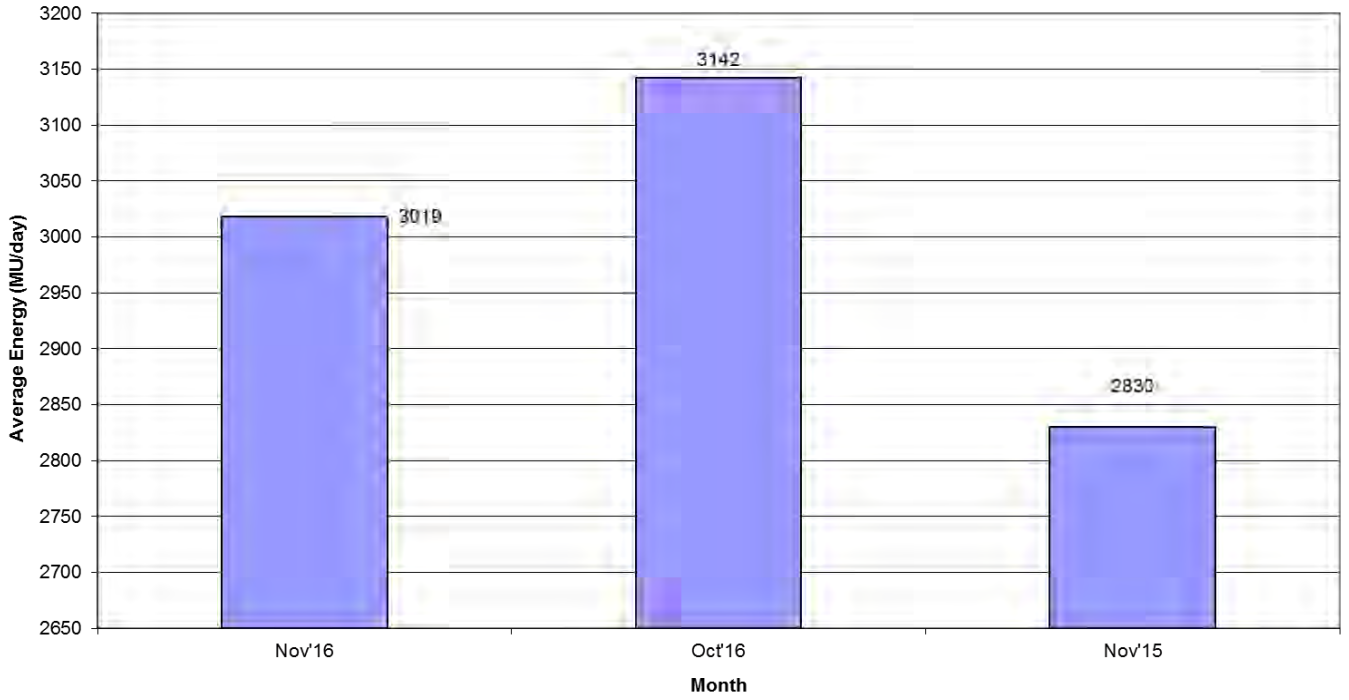


1. SUMMARY OF REPORT FOR THE MONTH OF NOVEMBER 2016

Average Energy (MU/day)

Decreased by 3.94% as compared to Oct 2016

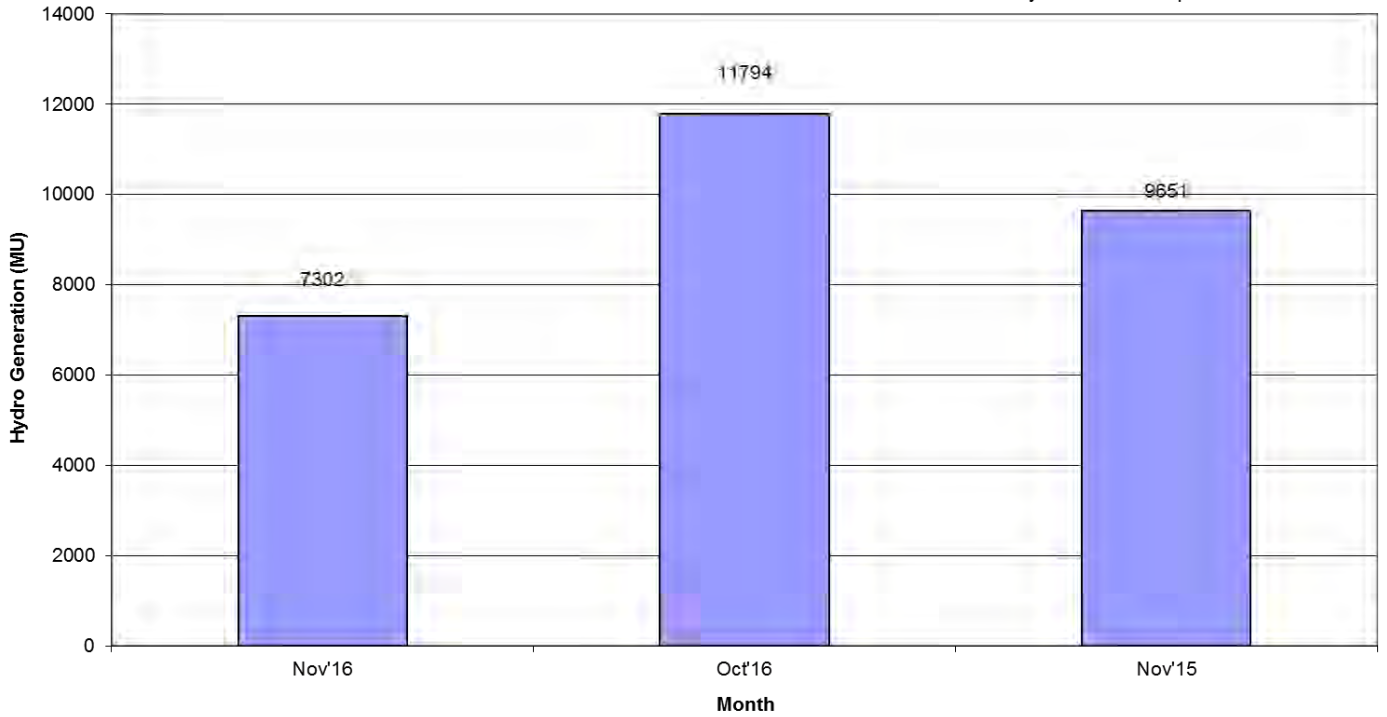
Increased by 6.67% as compared to Nov 2015



Hydro generation

Decreased by 38.08% as compared to Oct 2016

Decreased by 24.34% as compared to Nov 2015

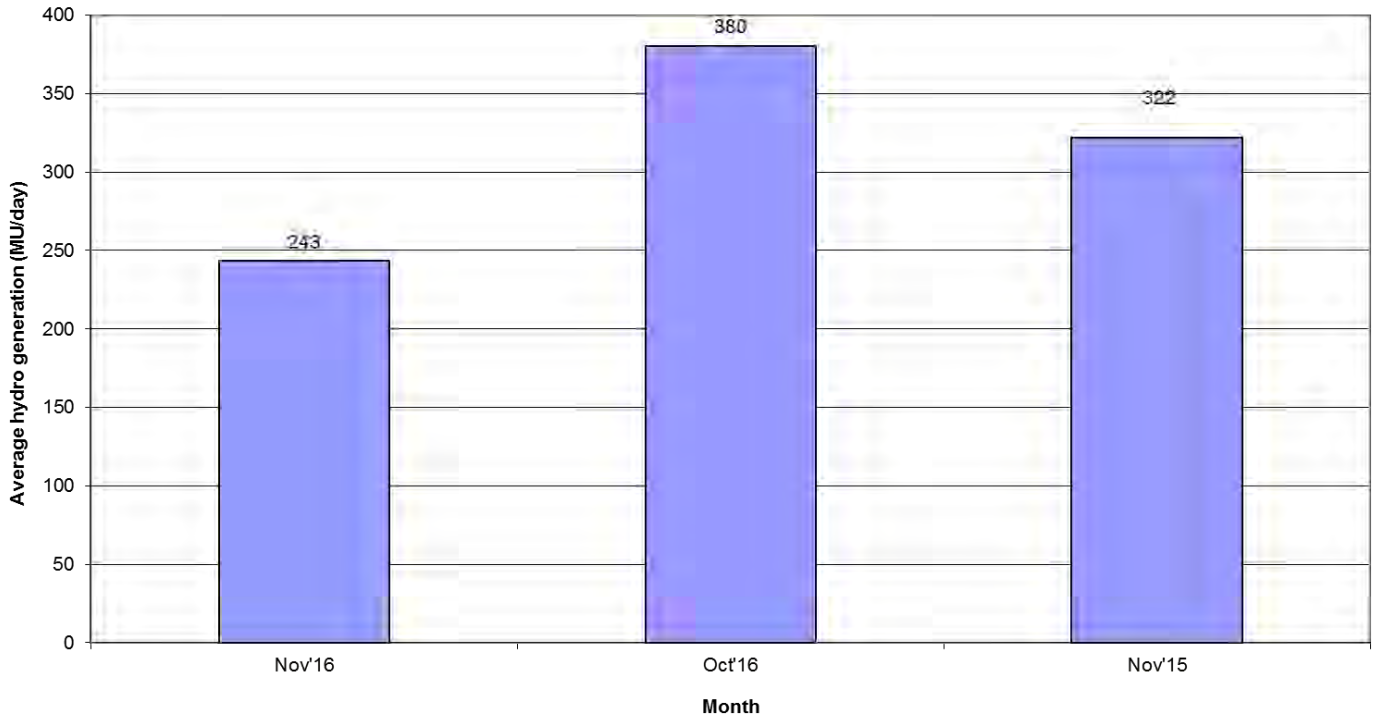


1. SUMMARY OF REPORT FOR THE MONTH OF NOVEMBER 2016

Average Hydro Generation

Decreased by 36.02% as compared to Oct 2016

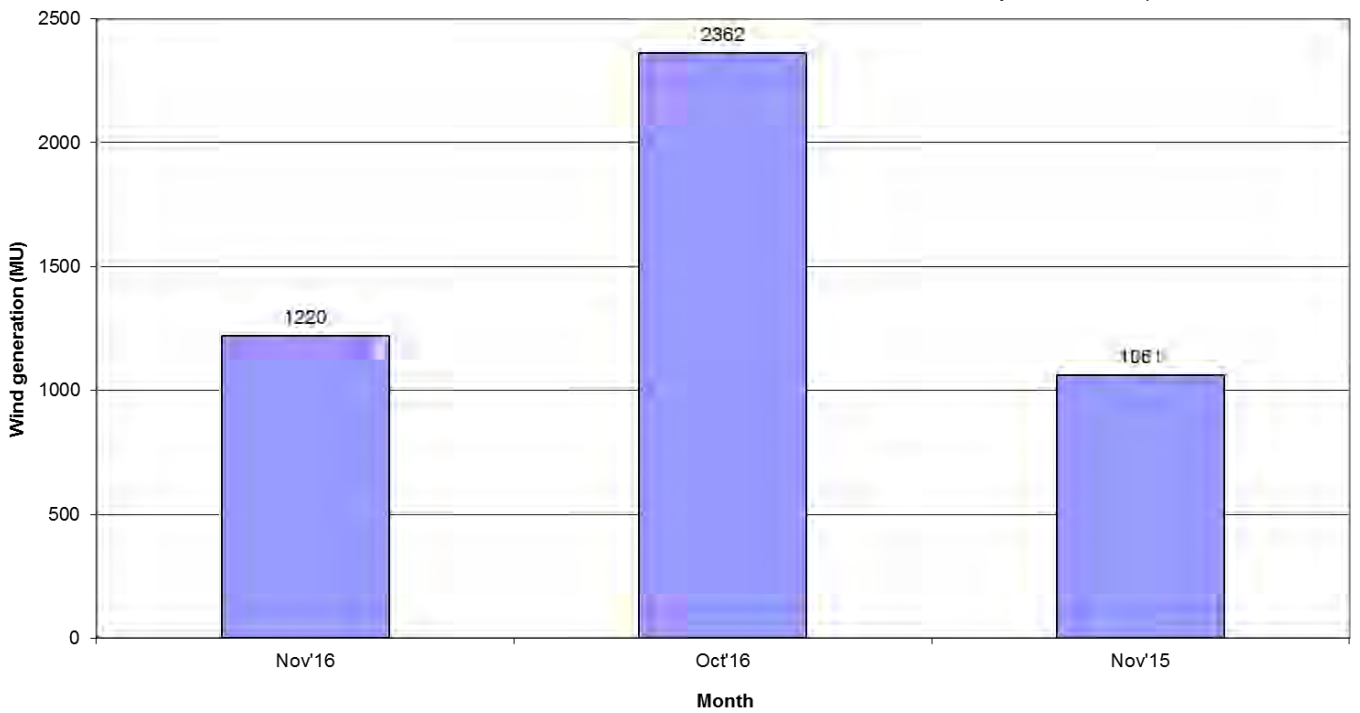
Decreased by 24.34% as compared to Nov 2015



Wind Generation

Decreased by 48.34% as compared to Oct 2016

Increased by 15.03% as compared to Nov 2015

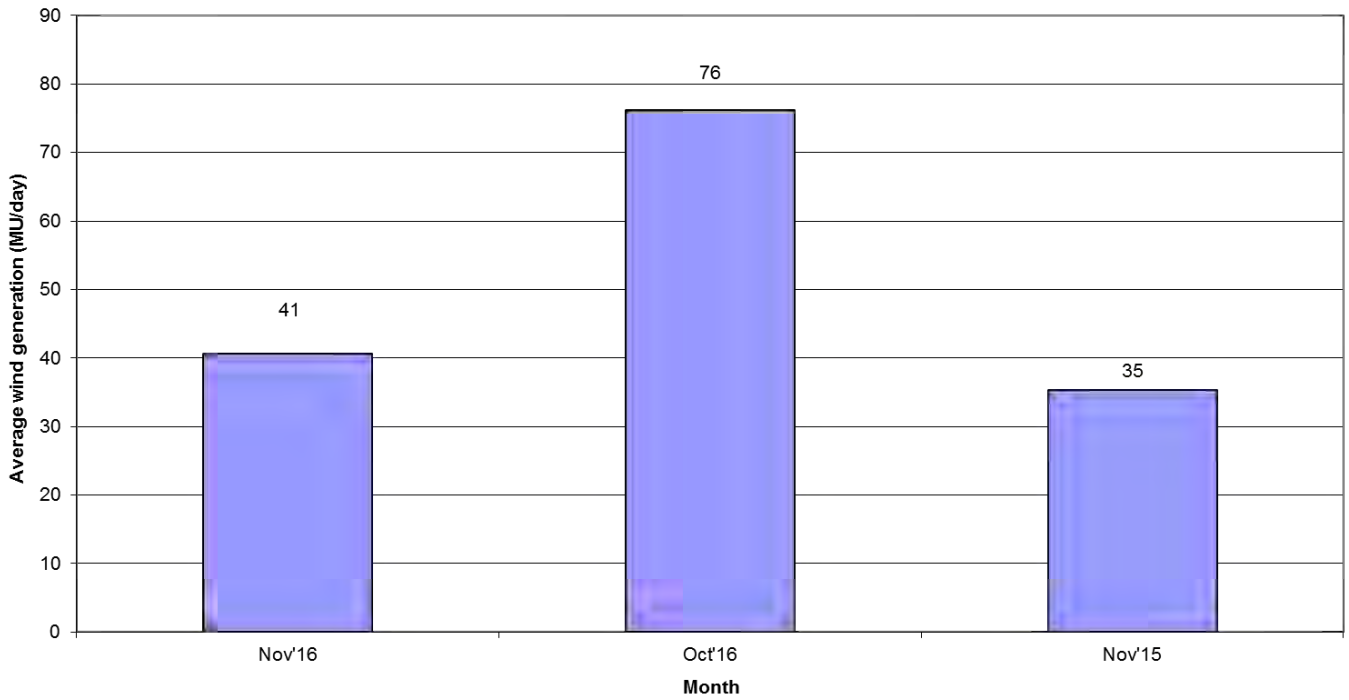


1. SUMMARY OF REPORT FOR THE MONTH OF NOVEMBER 2016

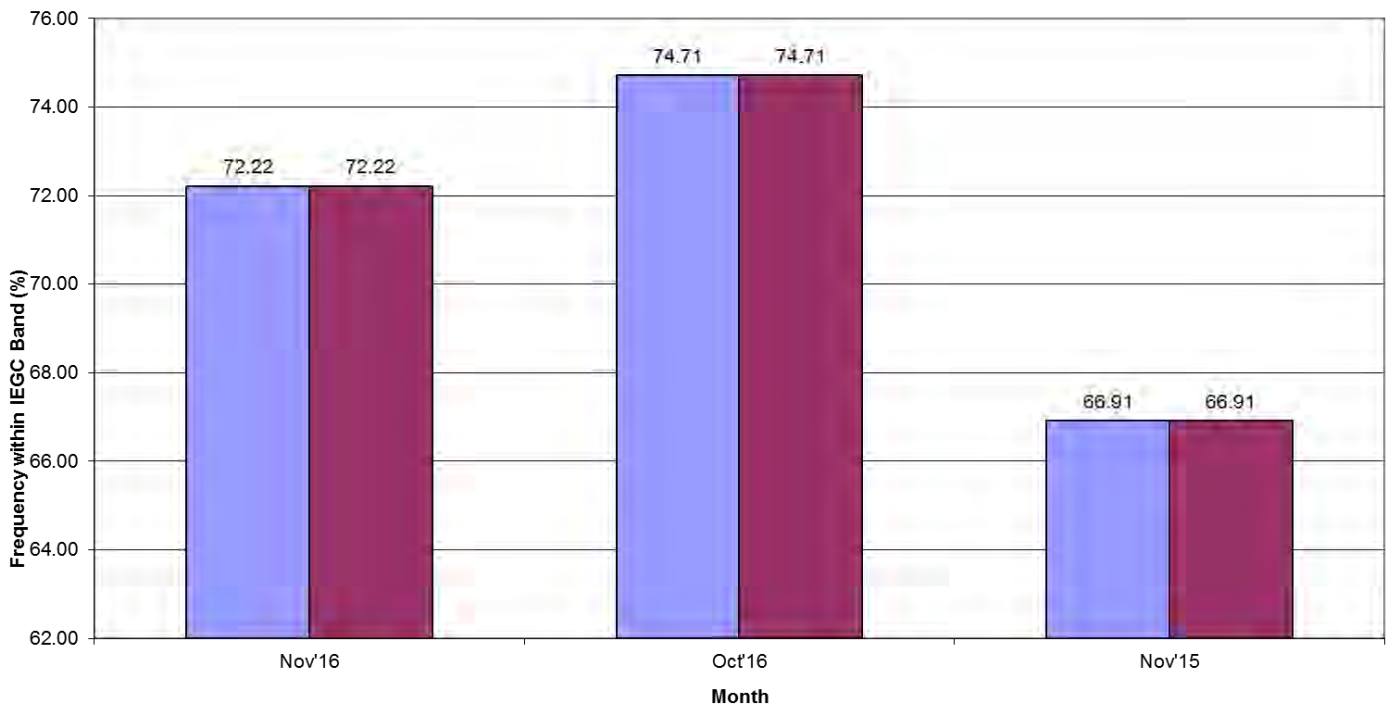
Average wind generation (MU/day)

Decreased by 46.62 % as compared to Oct 2016

Increased by 15.03% as compared to Nov 2015



Frequency within IEGC Band



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

(2) ALL INDIA REGIONWISE INSTALLED CAPACITY

As on 30.11.2016
(All figures are in MW)

S No	Region	THERMAL				NUCLEAR	HYDRO	RES @ MNRE	GRAND TOTAL
		COAL	GAS	DIESEL	TOTAL				
1	NR	46524	5781	0	52305	1620	18377	8976	81278
2	WR	72173	11203	0	83376	1840	7448	15818	108482
3	SR	38303	6474	843	45619	2320	11689	20278	79906
4	ER	30493	100	0	30593	0	4378	564	35535
5	NER	310	1724	36	2070	0	1242	269	3581
6	ISLANDS	0	0	40	40	0	0	11	51
		187802	25282	919	214003	5780	43133	45917	308834

Remarks: Data from CEA website

3. राष्ट्रीय स्तर पर संध्याकालीन शिखर विद्युत मांग पूर्ति

PEAK DEMAND MET AT NATIONAL LEVEL

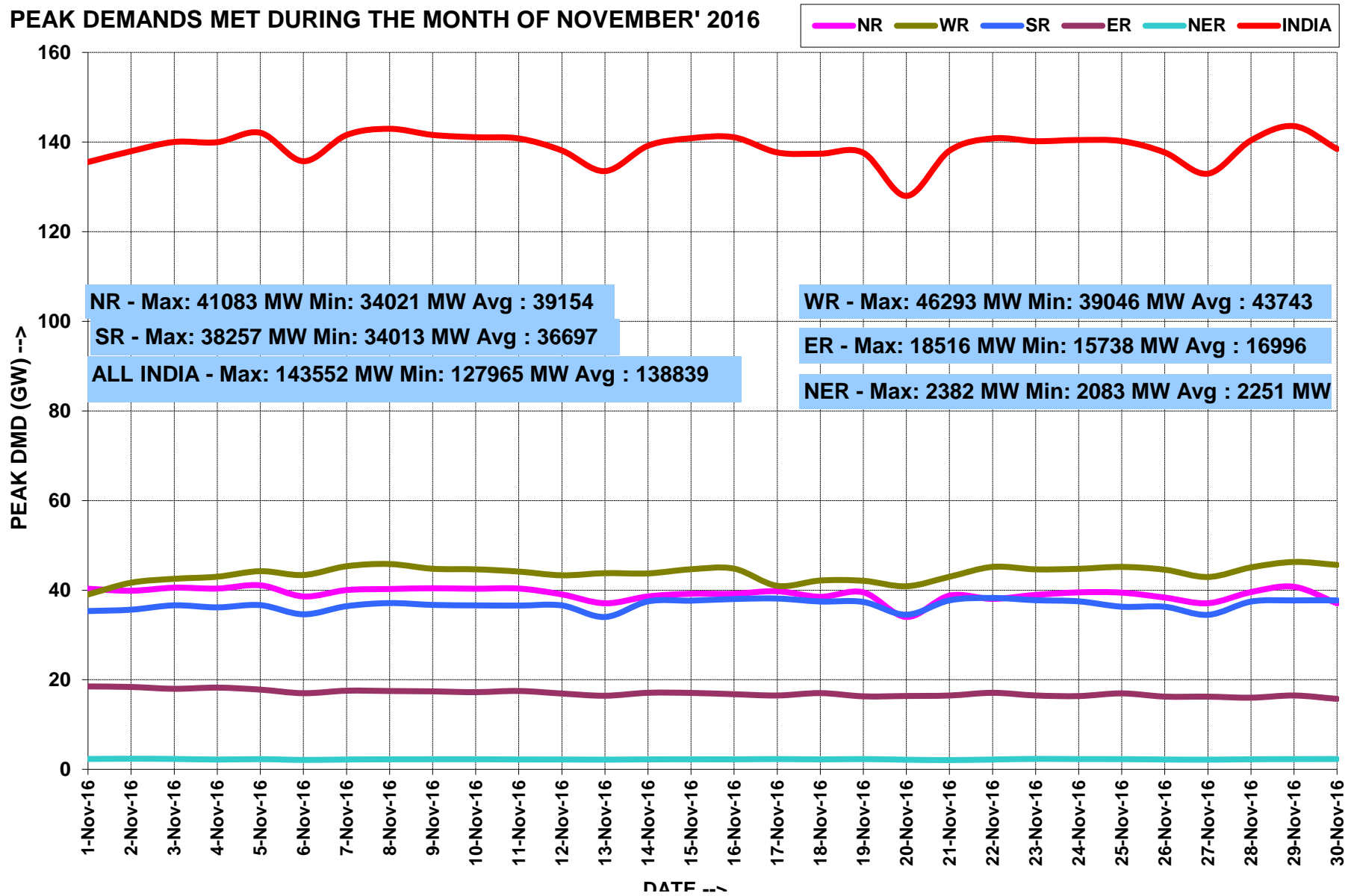
माह:-नवंबर 2016 MONTH:- November 2016

सभी आंकड़े मेगावाट मे All figures in MW

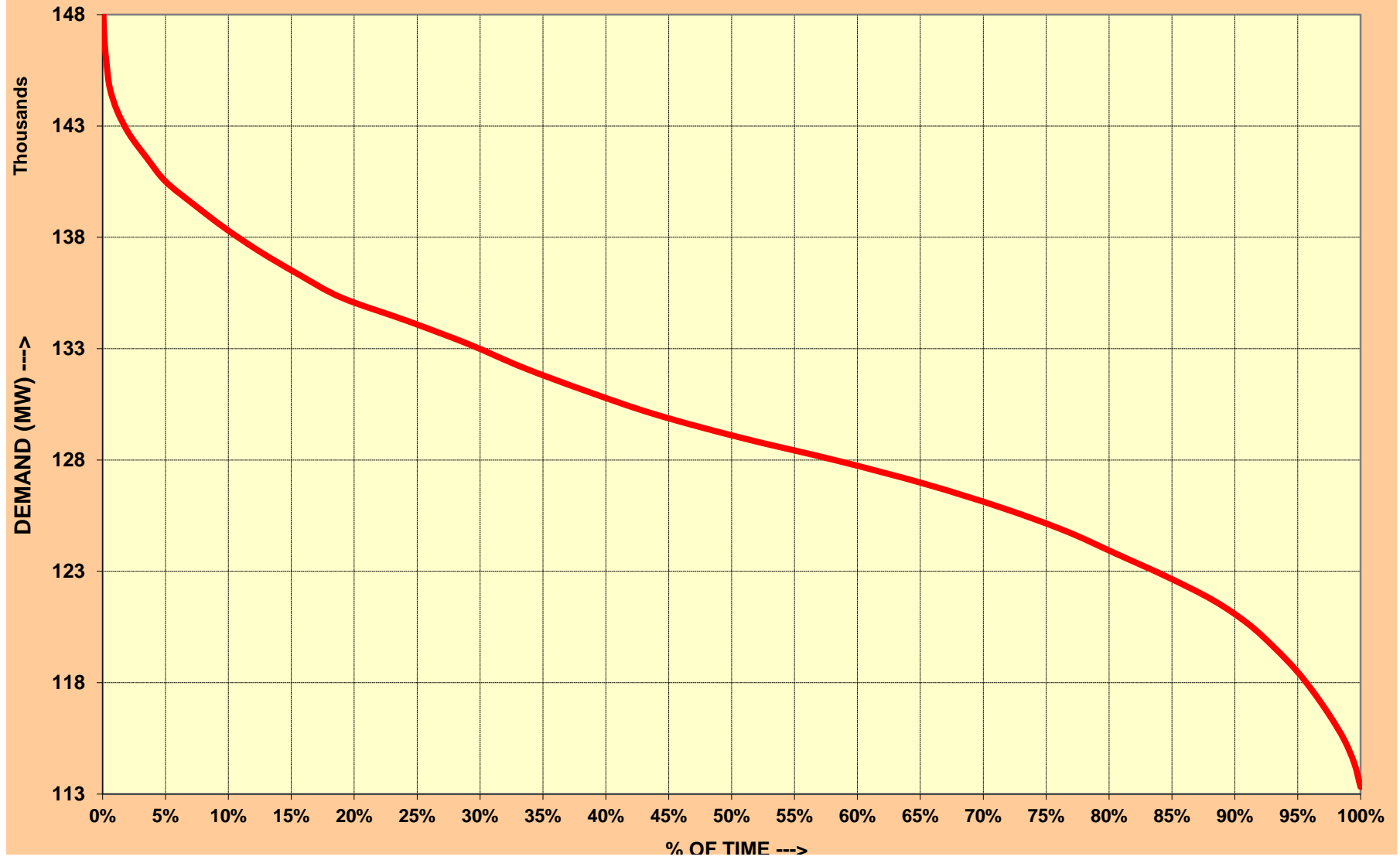
दिनांक Date	उत्तरी क्षे. NR	पश्चिमी क्षे. WR	दक्षिणी क्षे. SR	पूर्वी क्षे. ER	पूर्वोत्तर क्षे. NER	कुल TOTAL
01-Nov-16	40306	39046	35337	18516	2332	135537
02-Nov-16	39867	41664	35641	18399	2382	137953
03-Nov-16	40550	42531	36612	17990	2333	140016
04-Nov-16	40354	43001	36157	18253	2198	139963
05-Nov-16	41083	44236	36652	17802	2291	142064
06-Nov-16	38600	43384	34611	17004	2119	135718
07-Nov-16	40017	45334	36423	17566	2216	141557
08-Nov-16	40261	45830	37116	17494	2251	142953
09-Nov-16	40421	44775	36708	17412	2266	141582
10-Nov-16	40314	44649	36599	17241	2266	141068
11-Nov-16	40360	44150	36555	17507	2217	140788
12-Nov-16	39056	43317	36593	16931	2212	138109
13-Nov-16	37071	43795	34013	16443	2185	133507
14-Nov-16	38600	43738	37493	17100	2238	139169
15-Nov-16	39196	44665	37663	17069	2255	140849
16-Nov-16	39196	44797	38026	16783	2247	141048
17-Nov-16	39763	40973	38133	16497	2310	137676
18-Nov-16	38521	42150	37466	17029	2234	137400
19-Nov-16	39519	42091	37365	16308	2307	137590
20-Nov-16	34021	40873	34524	16385	2162	127965
21-Nov-16	38777	42990	37724	16490	2083	138064
22-Nov-16	38060	45192	38257	17092	2208	140809
23-Nov-16	38943	44642	37756	16499	2345	140185
24-Nov-16	39506	44765	37502	16367	2305	140445
25-Nov-16	39449	45186	36308	16968	2291	140202
26-Nov-16	38349	44569	36290	16247	2210	137665
27-Nov-16	37091	42938	34494	16240	2176	132939
28-Nov-16	39568	45078	37448	16007	2262	140363
29-Nov-16	40750	46293	37714	16494	2301	143552
30-Nov-16	37042	45631	37719	15738	2318	138449
उच्चतम MAXIMUM	41083	46293	38257	18516	2382	143552
निम्नतम MINIMUM	34021	39046	34013	15738	2083	127965
औसत AVERAGE	39154	43743	36697	16996	2251	138839
अब तक का उच्चतम All Time Max.	51816	47617	39363	19308	2556	156058
दिनांक Date	14.09.16	20.10.15	23.08.16	04.10.16	06.10.16	09.09.16

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

PEAK DEMANDS MET DURING THE MONTH OF NOVEMBER' 2016



ALL INDIA LOAD DURATION CURVE FOR NOVEMBER' 2016



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

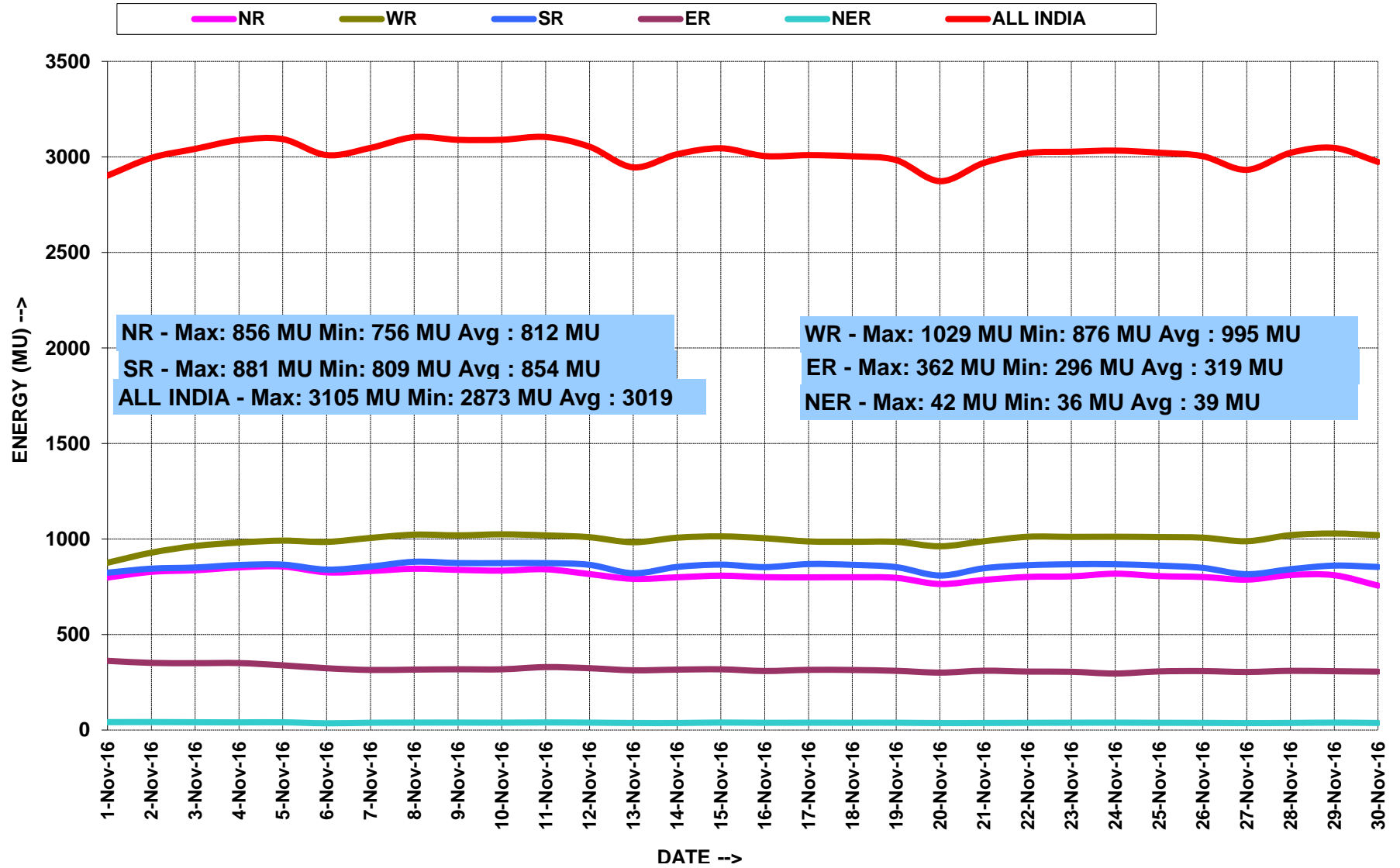
माह:-नवंबर 2016

MONTH:- November 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-Nov-16	799	876	824	362	42	2903
02-Nov-16	828	929	845	352	42	2995
03-Nov-16	837	963	851	350	41	3042
04-Nov-16	852	982	864	351	40	3088
05-Nov-16	856	992	866	339	41	3093
06-Nov-16	826	985	840	324	36	3010
07-Nov-16	833	1006	856	315	38	3048
08-Nov-16	845	1023	881	317	39	3104
09-Nov-16	839	1019	874	318	39	3090
10-Nov-16	835	1025	874	318	39	3090
11-Nov-16	842	1019	874	330	40	3105
12-Nov-16	817	1010	865	324	39	3054
13-Nov-16	791	983	821	313	37	2946
14-Nov-16	800	1007	854	317	37	3014
15-Nov-16	808	1014	866	318	39	3046
16-Nov-16	801	1004	853	309	38	3005
17-Nov-16	800	987	869	315	39	3010
18-Nov-16	800	986	865	315	38	3004
19-Nov-16	797	985	853	310	38	2984
20-Nov-16	765	962	809	301	37	2873
21-Nov-16	786	988	847	311	37	2969
22-Nov-16	802	1012	863	306	38	3021
23-Nov-16	805	1011	868	305	39	3028
24-Nov-16	819	1012	868	296	39	3033
25-Nov-16	806	1010	861	307	38	3022
26-Nov-16	801	1007	849	309	38	3004
27-Nov-16	788	989	816	304	37	2933
28-Nov-16	812	1020	842	310	37	3022
29-Nov-16	811	1029	861	308	39	3047
30-Nov-16	756	1021	854	306	37	2974
कुल TOTAL	24351	29857	25633	9559	1157	90557
उच्चतम MAXIMUM	856	1029	881	362	42	3105
निम्नतम MINIMUM	756	876	809	296	36	2873
औसत AVERAGE	812	995	854	319	39	3019
अब तक का उच्चतम All Time Max.	1208	1131	945	409	50	3540
दिनांक Date	30.06.16	20.10.15	28.04.16	20.04.16	24.08.16	10.09.16

ENERGY MET DURING THE MONTH OF NOVEMBER' 2016



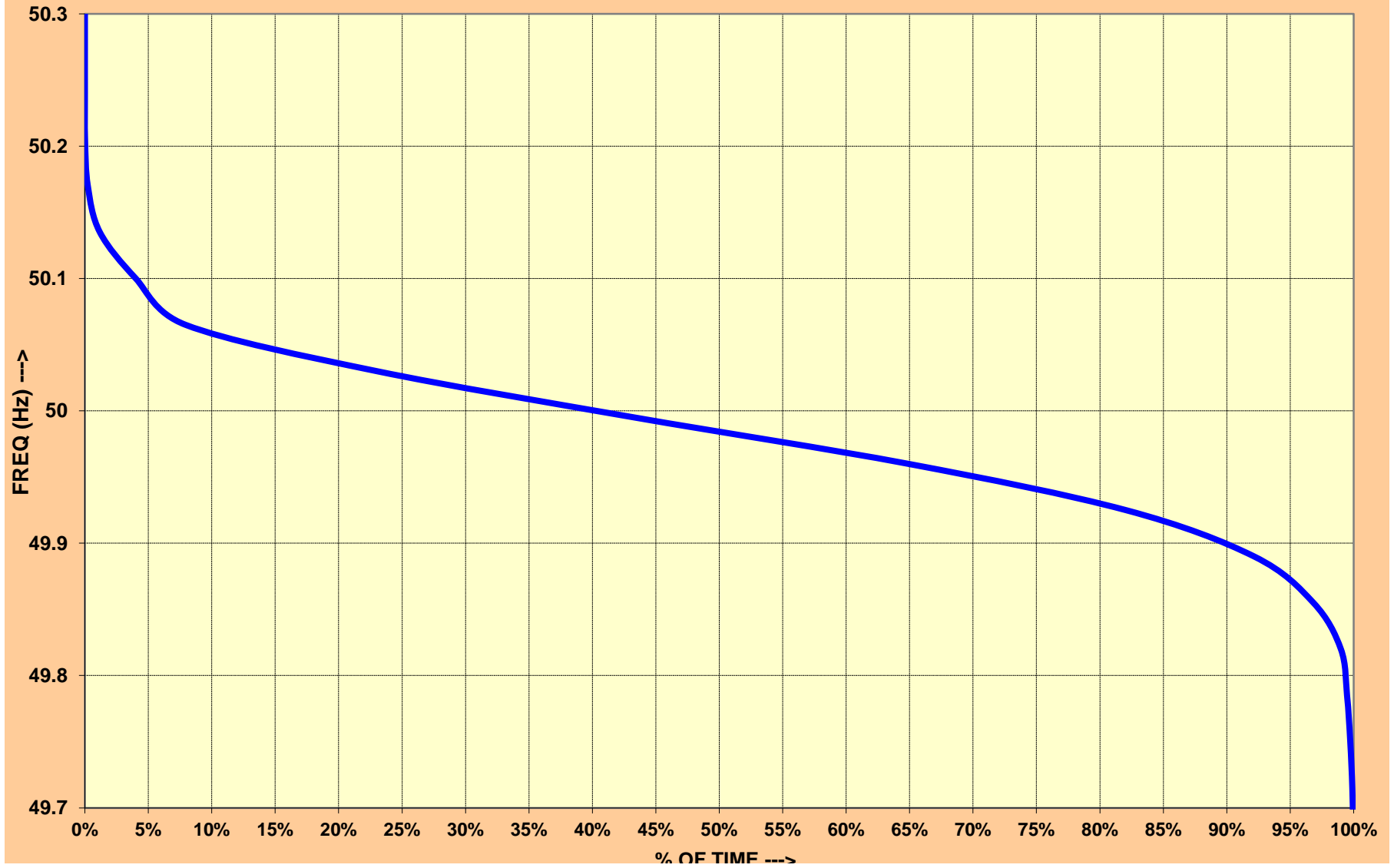
5.वर्ष 2016-17 के लिए आवृत्ति रूपरेखा FREQUENCY PROFILE FOR YEAR 2016-17

राष्ट्रीय गिड NATIONAL GRID									
फ़िक्वेन्सी रूपरेखा (Hz)			49.0-49.9	<49.9	49.9-50.05	>50.05	उच्चतम फ़िक्वेन्सी	निम्नतम फ़िक्वेन्सी	औसत फ़िक्वेन्सी
% समय	Nov-16	All India Grid	9.28	9.28	72.22	18.50	50.27	49.54	49.99
	Oct-16		5.52	5.52	74.71	19.76	50.25	49.76	50.00
	Sep-16		6.17	6.17	75.06	18.76	50.24	49.67	50.00
	Aug-16		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 नवंबर 2016 के लिए आवृत्ति रूपरेखा FREQUENCY PROFILE FOR NOVEMBER 2016

फ़िक्वेंसी रूपरेखा (Hz)		<49.0	49.0-49.9	<49.9	49.9-50.05	>50.05	उच्चतम फ़िक्वेंसी	निम्नतम फ़िक्वेंसी	औसत फ़िक्वेंसी
% समय	01-Nov-16	0.00	3.16	3.16	79.05	17.79	50.20	49.81	50.00
	02-Nov-16	0.00	8.92	8.92	78.43	12.65	50.16	49.78	49.98
	03-Nov-16	0.00	18.10	18.10	71.50	10.39	50.18	49.76	49.96
	04-Nov-16	0.00	9.88	9.88	75.91	14.20	50.20	49.75	49.98
	05-Nov-16	0.00	6.22	6.22	78.08	15.71	50.18	49.82	49.99
	06-Nov-16	0.00	0.91	0.91	74.04	25.05	50.20	49.87	50.02
	07-Nov-16	0.00	14.40	14.40	69.65	15.95	50.21	49.77	49.98
	08-Nov-16	0.00	7.63	7.63	72.43	19.94	50.23	49.80	49.99
	09-Nov-16	0.00	7.48	7.48	74.47	18.06	50.20	49.80	49.99
	10-Nov-16	0.00	10.86	10.86	72.70	16.45	50.20	49.79	49.99
	11-Nov-16	0.00	5.32	5.32	78.53	16.15	50.18	49.80	49.99
	12-Nov-16	0.00	8.01	8.01	71.61	20.38	50.19	49.75	50.00
	13-Nov-16	0.00	3.18	3.18	69.20	27.62	50.18	49.83	50.01
	14-Nov-16	0.00	4.58	4.58	70.41	25.01	50.24	49.81	50.01
	15-Nov-16	0.00	4.54	4.54	72.84	22.63	50.20	49.79	50.01
	16-Nov-16	0.00	1.85	1.85	69.09	29.06	50.25	49.82	50.02
	17-Nov-16	0.00	7.95	7.95	70.30	21.75	50.27	49.80	50.00
	18-Nov-16	0.00	10.38	10.38	73.02	16.60	50.22	49.78	49.99
	19-Nov-16	0.00	3.90	3.90	75.43	20.67	50.20	49.81	50.00
	20-Nov-16	0.00	5.59	5.59	69.79	24.62	50.21	49.82	50.00
	21-Nov-16	0.00	16.09	16.09	68.68	15.23	50.19	49.75	49.98
	22-Nov-16	0.00	8.65	8.65	75.71	15.65	50.18	49.79	49.99
	23-Nov-16	0.00	14.20	14.20	67.86	17.94	50.18	49.76	49.98
	24-Nov-16	0.00	7.75	7.75	67.44	24.80	50.23	49.75	50.00
	25-Nov-16	0.00	8.03	8.03	68.75	23.22	50.24	49.77	50.00
	26-Nov-16	0.00	13.17	13.17	72.25	14.58	50.19	49.72	49.98
	27-Nov-16	0.00	9.19	9.19	73.94	16.88	50.27	49.77	49.99
	28-Nov-16	0.00	13.24	13.24	71.71	15.05	50.19	49.79	49.98
	29-Nov-16	0.00	17.11	17.11	71.44	11.46	50.19	49.75	49.97
	30-Nov-16	0.00	28.16	28.16	62.27	9.57	50.18	49.54	49.94

ALL INDIA FREQUENCY DURATION CURVE FOR NOVEMBER' 2016



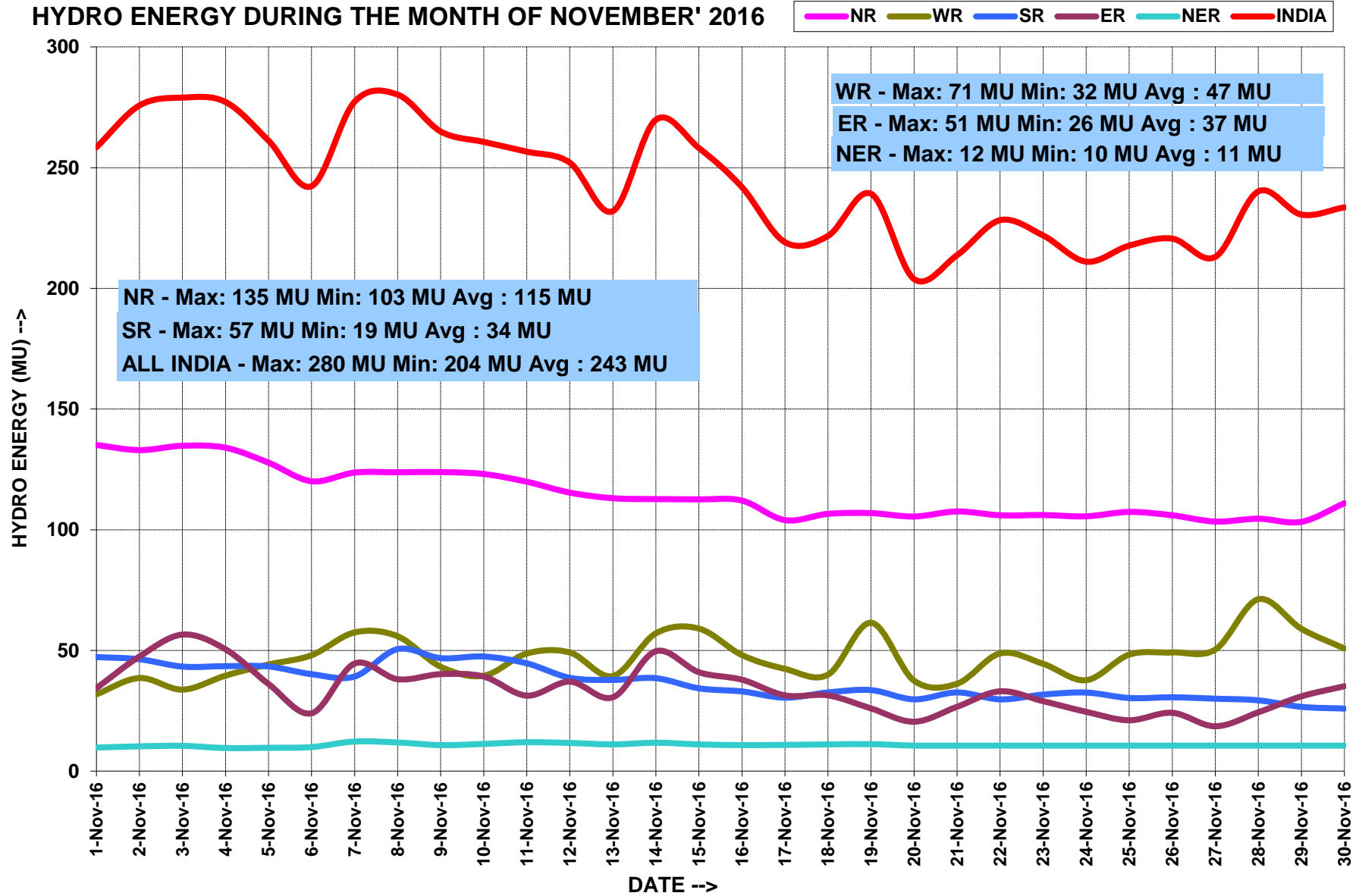
**6.राष्ट्रीय स्तर पर जल विद्युत उत्पादन
HYDRO GENERATION AT NATIONAL LEVEL**

माह:-नवंबर 2016 MONTH:- November 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-Nov-16	135	32	34	47	10	258
02-Nov-16	133	39	48	46	10	276
03-Nov-16	135	34	57	43	11	279
04-Nov-16	134	40	51	44	10	277
05-Nov-16	128	44	36	43	10	261
06-Nov-16	120	48	24	40	10	242
07-Nov-16	124	57	45	39	12	277
08-Nov-16	124	56	38	51	12	280
09-Nov-16	124	43	40	47	11	265
10-Nov-16	123	40	39	48	11	261
11-Nov-16	120	49	31	45	12	257
12-Nov-16	115	49	37	39	12	252
13-Nov-16	113	39	31	38	11	232
14-Nov-16	113	57	50	39	12	270
15-Nov-16	113	59	41	34	11	258
16-Nov-16	112	48	38	33	11	242
17-Nov-16	104	42	31	30	11	219
18-Nov-16	107	40	31	33	11	222
19-Nov-16	107	62	26	34	11	239
20-Nov-16	106	38	21	30	11	204
21-Nov-16	108	36	27	33	11	214
22-Nov-16	106	49	33	30	11	228
23-Nov-16	106	44	29	32	11	222
24-Nov-16	106	38	25	33	11	211
25-Nov-16	107	48	21	30	11	218
26-Nov-16	106	49	24	31	11	221
27-Nov-16	103	50	19	30	11	213
28-Nov-16	105	71	24	29	11	240
29-Nov-16	103	59	31	27	11	231
30-Nov-16	111	51	35	26	11	234
कुल TOTAL	3449	1411	1016	1101	325	7302
उच्चतम MAXIMUM	135	71	57	51	12	280
निम्नतम MINIMUM	103	32	19	26	10	204
औसत AVERAGE	115	47	34	37	11	243
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 NOVEMBER' 2016



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

माह:-नवंबर 2016

MONTH:- November 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-Nov-16	6	27	17	-----	-----	50
02-Nov-16	5	21	14	-----	-----	40
03-Nov-16	4	21	12	-----	-----	37
04-Nov-16	4	11	24	-----	-----	39
05-Nov-16	4	8	27	-----	-----	39
06-Nov-16	8	5	27	-----	-----	40
07-Nov-16	3	12	13	-----	-----	27
08-Nov-16	5	13	17	-----	-----	35
09-Nov-16	10	11	14	-----	-----	36
10-Nov-16	11	10	14	-----	-----	36
11-Nov-16	16	9	14	-----	-----	40
12-Nov-16	11	9	13	-----	-----	33
13-Nov-16	13	28	14	-----	-----	55
14-Nov-16	7	30	15	-----	-----	52
15-Nov-16	3	18	16	-----	-----	38
16-Nov-16	3	29	31	-----	-----	63
17-Nov-16	7	37	42	-----	-----	86
18-Nov-16	3	19	29	-----	-----	50
19-Nov-16	5	8	18	-----	-----	31
20-Nov-16	12	7	16	-----	-----	34
21-Nov-16	9	8	18	-----	-----	35
22-Nov-16	3	11	17	-----	-----	31
23-Nov-16	2	11	22	-----	-----	34
24-Nov-16	5	25	30	-----	-----	59
25-Nov-16	10	33	28	-----	-----	71
26-Nov-16	2	21	14	-----	-----	38
27-Nov-16	2	20	12	-----	-----	33
28-Nov-16	2	10	10	-----	-----	22
29-Nov-16	3	8	7	-----	-----	18
30-Nov-16	5	6	11	-----	-----	22
कुल TOTAL	181	486	553	-----	-----	1220
उच्चतम MAXIMUM	16	37	42	-----	-----	86
निम्नतम MINIMUM	2	5	7	-----	-----	18
औसत AVERAGE	6	16	18	-----	-----	41
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 - Nov 2016

REGION	STATE	Requirement/Availability in MU/DAY			Requirement/Availability in MU				Peak Demand/Peak Met in MW			
		Requirement	Energy met	Surplus(+)/Deficit(-)	Requirement	Energy met	Surplus(+)/Deficit(-)	% Shortage	Requirement	Peak Demand Met	Surplus(+)/Deficit(-)	% Shortage
NR	Chandigarh	3.2	3.2	0.0	95.6	95.6	0.0	0.0	183	183	0	0.0
	Delhi	56.9	56.9	0.0	1708.4	1707.2	-1.2	-0.1	3510	3510	0	0.0
	Haryana	106.0	105.9	0.0	3178.7	3178.3	-0.4	0.0	6642	6642	0	0.0
	H.P.	24.1	24.1	0.0	724.3	723.4	-0.9	-0.1	1410	1410	0	0.0
	J&K	50.2	40.3	-9.9	1506.0	1209.0	-297.0	-19.7	2480	1984	-496	-20.0
	Punjab	94.3	94.3	0.0	2827.7	2827.7	0.0	0.0	5548	5548	0	0.0
	Rajasthan	202.5	200.0	-2.5	6075.3	5999.1	-76.2	-1.3	9902	9902	0	0.0
	U.P.	260.0	257.9	-2.1	7798.5	7735.9	-62.7	-0.8	14424	14424	0	0.0
	Uttarakhand	31.8	31.8	-0.1	954.7	953.1	-1.6	-0.2	1785	1785	0	0.0
NFF/Railway	2.1	2.1	0.0	63.3	63.3	0.0	0.0	98	98	0	0.0	
TOTAL	831.1	816.4	-14.7	24932.5	24492.6	-439.8	-1.8	41535	41082	-453	-1.1	
WR	Gujarat	263.1	263.0	-0.1	7893.1	7890.3	-2.8	0.0	13304	13299	-5	0.0
	Madhya Pradesh	208.0	207.9	-0.1	6241.1	6237.8	-3.3	-0.1	11067	11045	-22	-0.2
	Chhattisgarh	64.4	64.3	0.0	1931.3	1930.2	-1.1	-0.1	3280	3251	-29	-0.9
	Maharashtra	416.3	416.1	-0.1	12487.7	12483.7	-4.0	0.0	20813	20805	-8	0.0
	Goa	8.6	8.6	0.0	258.8	258.8	0.0	0.0	443	442	-1	-0.2
	D&D	6.3	6.3	0.0	187.6	187.6	0.0	0.0	310	310	0	0.0
	DNH	15.9	15.9	0.0	478.3	478.3	0.0	0.0	758	758	0	0.0
	ESIL	7.8	7.8	0.0	232.6	232.6	0.0	0.0	800	800	0	0.0
	TOTAL	990.3	990.0	-0.4	29710.4	29699.2	-11.2	0.0	48481	48447	-34	-0.1
SR	Andhra Pradesh	161.5	161.5	0.0	4845.6	4844.2	-1.5	0.0	7296	7296	0	0.0
	Telangana	145.8	145.7	-0.1	4373.9	4372.3	-1.5	0.0	7561	7561	0	0.0
	KPTCL	207.7	206.2	-1.5	6230.9	6185.9	-45.0	-0.7	9888	9871	-17	-0.2
	KSEB	66.9	66.8	-0.1	2006.2	2003.9	-2.3	-0.1	3625	3622	-3	-0.1
	TNEB	296.2	296.1	-0.1	8885.9	8883.0	-2.9	0.0	14163	14163	0	0.0
	PONDICHERRY	6.8	6.8	0.0	203.0	202.6	-0.4	-0.2	341	341	0	0.0
TOTAL	884.8	883.1	-1.8	26545.5	26491.8	-53.7	-0.2	40192	40192	0	0.0	
ER	Bihar	71.4	63.1	-8.3	2141.0	1891.5	-249.5	-11.7	3800	3818	18	0.5
	JSEB	26.0	22.8	-3.2	780.0	683.0	-97.0	-12.4	1200	1194	-6	-0.5
	DVC	56.5	58.0	1.5	1695.0	1739.1	44.1	2.6	2825	2615	-210	-7.4
	Odisha	83.1	65.6	-17.5	2492.0	1967.9	-524.1	-21.0	4200	3874	-326	-7.8
	West Bengal	117.9	116.3	-1.6	3537.0	3489.4	-47.6	-1.3	7073	7878	805	11.4
	Sikkim	1.2	1.2	0.0	37.0	36.0	-1.0	-2.6	85	100	15	17.6
	TOTAL	356.1	326.9	-29.2	10682.0	9806.9	-875.1	-8.2	18624	18799	175	0.9
NER	Arunachal Pradesh	2.0	2.0	0.0	58.9	59.8	0.9	1.5	128	127	-1	-0.8
	Assam	23.5	22.2	-1.4	706.3	665.5	-40.7	-5.8	1532	1524	-8	-0.5
	Manipur	2.1	2.2	0.1	62.2	64.7	2.5	4.0	152	151	-1	-0.7
	MeSEB	4.6	4.6	0.0	136.7	137.3	0.5	0.4	312	312	0	0.0
	Mizoram	1.4	1.5	0.0	42.7	43.6	0.8	2.0	97	96	-1	-1.0
	Nagaland	2.0	2.1	0.1	59.8	62.8	2.9	4.9	128	126	-2	-1.6
	Tripura	1.8	1.3	-0.4	52.9	39.5	-13.4	-25.4	266	266	0	0.0
	TOTAL	37.3	35.8	-1.5	1120	1073	-46.5	-4.2	2616	2603	-13	-0.5
ALL INDIA	3099.7	3052.1	-47.5	92989.8	91563.6	-1426.2	-1.5	151448	151123	-325	-0.2	

9. ENERGY COMPARISON OF NOVEMBER 2016 vs NOVEMBER 2015

REGION	STATE	Energy Requirement (MU)					Energy Met (MU)				
		Nov-15	Nov-16	Difference	% Change	Average MU/day for Nov-16	Nov-15	Nov-16	Difference	% Change	Average for MU/day for Nov 16
NR	Chandigarh	99	96	-3	-3	3	99	96	-3	-3	3
	Delhi	1763	1708	-55	-3	57	1762	1707	-55	-3	57
	Haryana	3147	3179	32	1	106	3146	3178	32	1	106
	H.P.	687	724	37	5	24	684	723	39	6	24
	J&K	1410	1506	96	7	50	1202	1209	8	1	40
	Punjab	2677	2828	151	6	94	2677	2828	151	6	94
	Rajasthan	6059	6075	16	0	203	6046	5999	-47	-1	200
	U.P.	7687	7799	112	1	260	6904	7736	832	12	258
	Uttarakhand	973	955	-18	-2	32	962	953	-9	-1	32
	NFF/Railway	68	63	-5	-7	2	68	63	-5	-7	2
TOTAL	24569	24932	364	1	831	23549	24493	944	4	816	
WR	Gujarat	7954	7893	-61	-1	263	7951	7890	-61	-1	263
	Madhya Pradesh	6524	6241	-283	-4	208	6523	6238	-285	-4	208
	Chhattisgarh	2016	1931	-85	-4	64	2009	1930	-79	-4	64
	Maharashtra	12107	12488	381	3	416	12027	12484	457	4	416
	Goa	249	259	10	4	9	249	259	10	4	9
	D&D	183	188	4	2	6	183	188	4	2	6
	DNH	454	478	25	5	16	453	478	25	6	16
	ESIL	194	233	38	20	8	194	233	38	20	8
TOTAL	29682	29710	29	0	990	29589	29699	110	0	990	
SR	Andhra Pradesh	3670	4846	1175	32	162	3669	4844	1175	32	161
	Telangana	3911	4374	463	12	146	3910	4372	463	12	146
	KPTCL	4818	6231	1413	29	208	4672	6186	1513	32	206
	KSEB	1804	2006	202	11	67	1800	2004	204	11	67
	TNEB	6511	8886	2375	36	296	6508	8883	2375	36	296
	PONDY	155	203	48	31	7	155	203	48	31	7
TOTAL	20870	26545	5675	27	885	20714	26492	5778	28	883	
ER	Bihar	2162	2141	-21	-1	71	1889	1892	2	0	63
	JSEB	703	780	77	11	26	700	683	-17	-2	23
	DVC	1718	1695	-23	-1	57	1718	1739	22	1	58
	Odisha	2147	2492	345	16	83	2147	1968	-179	-8	66
	West Bengal	3618	3537	-81	-2	118	3615	3489	-126	-3	116
	Sikkim	28	37	9	30	1	28	36	8	27	1
TOTAL	10375	10682	307	3	356	10097	9807	-291	-3	327	
NER	Arunachal Pradesh	60	59	-1	-2	2	60	60	0	0	2
	Assam	672	706	35	5	24	627	666	39	6	22
	Manipur	72	62	-10	-14	2	72	65	-8	-11	2
	MeSEB	168	137	-31	-18	5	165	137	-27	-17	5
	Mizoram	43	43	0	0	1	42	44	1	3	1
	Nagaland	62	60	-2	-4	2	61	63	2	3	2
	Tripura	109	53	-56	-51	2	90	39	-50	-56	1
TOTAL	1185	1120	-65	-6	37	1116	1073	-43	-4	36	
ALL INDIA	86681	92990	6309	7	3100	85066	91564	6498	8	3052	

10. DEMAND COMPARISON OF NOVEMBER 2016 vs NOVEMBER 2015

REGION	STATE	Peak Requirement (MW)				Peak Met (MW)			
		Nov-15	Nov-16	Difference	% Change	Nov-15	Nov-16	Difference	% Change
NR	Chandigarh	190	183	-7	-3.7	190	183	-7	-3.7
	Delhi	3512	3510	-2	-0.1	3512	3510	-2	-0.1
	Haryana	6610	6642	32	0.5	6610	6642	32	0.5
	H.P.	1361	1410	49	3.6	1361	1410	49	3.6
	J&K	2433	2480	47	1.9	2064	1984	-80	-3.9
	Punjab	5129	5548	419	8.2	5129	5548	419	8.2
	Rajasthan	9780	9902	122	1.2	9780	9902	122	1.2
	U.P.	14503	14424	-79	-0.5	14503	14424	-79	-0.5
	Uttarakhand	1805	1785	-20	-1.1	1805	1785	-20	-1.1
	NFF/Railway	104	98	-6	-5.8	104	98	-6	-5.8
WR	Gujarat	13682	13304	-378	-3	13677	13299	-378	-2.8
	Madhya Pradesh	10407	11067	660	6	10393	11045	652	6.3
	Chhattisgarh	3443	3280	-163	-5	3333	3251	-82	-2.5
	Maharashtra	20810	20813	3	0	20378	20805	427	2.1
	Goa	441	443	2	0	418	442	24	5.7
	D&D	304	310	6	2.0	304	310	6	2.0
	DNH	716	758	42	5.9	716	758	42	5.9
	ESIL	585	800	215	36.7	585	800	215	36.7
SR	Andhra Pradesh	6755	7296	541	8.0	6755	7296	541	8.0
	Telangana	6479	7561	1082	16.7	6479	7561	1082	16.7
	KPTCL	7921	9888	1968	24.8	7623	9871	2247	29.5
	KSEB	3456	3625	169	4.9	3455	3622	167	4.8
	TNEB	12481	14163	1682	13.5	12481	14163	1682	13.5
	PONDY	332	341	9	2.7	332	341	9	2.7
ER	Bihar	3552	3800	248	7.0	3335	3818	483	14.5
	JSEB	1177	1200	23	2.0	1177	1194	17	1.4
	DVC	2624	2825	201	7.7	2624	2615	-9	-0.3
	Odisha	4063	4200	137	3.4	4063	3874	-189	-4.6
	West Bengal	7199	7073	-126	-1.7	7189	7878	689	9.6
	Sikkim	101	85	-16	-15.8	101	100	-1	-1.0
NER	Arunachal Pradesh	120	128	8	6.7	118	127	9	7.6
	Assam	1387	1532	145	10.4	1378	1524	146	10.6
	Manipur	165	152	-13	-7.9	163	151	-12	-7.4
	MeSEB	338	312	-26	-7.6	335	312	-23	-6.8
	Mizoram	90	97	7	7.9	89	96	7	8.0
	Nagaland	121	128	7	6.1	120	126	6	5.3
	Tripura	244	266	23	9.3	242	266	24	10.0

11. SCHEDULE AND DRAWAL OF CONSTITUENTS - November 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	98.18	105.53	7.35	7.49	3.27	3.52	0.25
	Delhi	1317.95	1353.22	35.27	2.68	43.93	45.11	1.18
	Haryana	2357.65	2336.66	-20.99	-0.89	78.59	77.89	-0.70
	H.P.	518.21	527.68	9.47	1.83	17.27	17.59	0.32
	J&K	1023.69	1070.00	46.32	4.52	34.12	35.67	1.54
	Punjab	1383.63	1316.40	-67.23	-4.86	46.12	43.88	-2.24
	Rajasthan	2199.72	2263.63	63.92	2.91	73.32	75.45	2.13
	U.P.	2652.81	2661.18	8.37	0.32	88.43	88.71	0.28
	Uttarakhand	553.92	549.87	-4.05	-0.73	18.46	18.33	-0.13
NFF/Railway	53.23	63.43	10.20	19.15	1.77	2.11	0.34	
WR	Gujarat	2277.08	2224.84	-52.24	-2.29	75.90	74.16	-1.74
	Madhya Pradesh	3987.61	3903.16	-84.45	-2.12	132.92	130.11	-2.81
	Maharashtra	3416.50	3410.27	-6.23	-0.18	113.88	113.68	-0.21
	Chhattisgarh	279.84	239.66	-40.17	-14.36	9.33	7.99	-1.34
	Goa	240.66	242.61	1.95	0.81	8.02	8.09	0.06
	D&D	187.20	187.63	0.43	0.23	6.24	6.25	0.01
	D&NH	489.51	478.25	-11.26	-2.30	16.32	15.94	-0.38
ESIL	234.79	232.56	-2.23	-0.95	7.83	7.75	-0.07	
SR	Andhra Pradesh	771.03	835.24	64.21	8.33	25.70	27.84	2.14
	Telangana	2040.89	2084.65	43.76	2.14	68.03	69.49	1.46
	KPTCL	2323.42	2440.82	117.40	5.05	77.45	81.36	3.91
	KSEB	1600.37	1678.27	77.90	4.87	53.35	55.94	2.60
	TNEB	4373.72	4376.70	2.98	0.07	145.79	145.89	0.10
	PONDICHERRY	207.46	196.02	-11.44	-5.51	6.92	6.53	-0.38
ER	Bihar	1822.20	1811.96	-10.24	-0.56	60.74	60.40	-0.34
	JSEB	435.51	476.43	40.92	9.40	14.52	15.88	1.36
	DVC	-1022.79	-1051.50	-28.71	2.81	-34.09	-35.05	-0.96
	GRIDCO	599.15	602.44	3.29	0.55	19.97	20.08	0.11
	WBSEB	744.46	765.19	20.74	2.79	24.82	25.51	0.69
	Sikkim	38.85	36.02	-2.83	-7.30	1.30	1.20	-0.09
NER	Arunachal Pradesh	55.52	59.77	4.25	7.65	1.85	1.99	0.14
	Assam	512.46	545.91	33.45	6.53	17.08	18.20	1.12
	Manipur	63.85	64.66	0.81	1.27	2.13	2.16	0.03
	MeSEB	111.59	102.27	-9.32	-8.35	3.72	3.41	-0.31
	Mizoram	35.95	40.73	4.77	13.28	1.20	1.36	0.16
	Nagaland	52.26	53.94	1.68	3.21	1.74	1.80	0.06
	Tripura	74.70	68.98	-5.72	-7.66	2.49	2.30	-0.19

12. INTER REGIONAL EXCHANGES 2016-17

	April'16	May'16	June'16	July'16	Aug'16	Sep'16	Oct'16	Nov'16	Fin. Year 2016-17 (till Nov 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	1715.13	1670.79	1473.87	13335.49
WR-NR 765 kV Gwalior - Phagi D/C	564.39	335.59	543.16	683.11	661.63	712.93	890.73	1035.95	5427.48
WR - NR HVDC Vindhyachal	127.02	46.28	68.61	16.50	12.08	60.50	44.16	9.11	384.25
WR - NR 400 kV Zerda Kankroli	0.00	0.00	0.00	6.94	41.01	17.62	47.45	8.45	121.48
WR - NR 400 kV Zerda Bhinmal	0.53	0.00	0.00	14.67	48.89	37.07	62.52	29.07	192.75
WR - NR 400 kV RAPP C - Shujalpur								123.83	123.83
WR - NR 220 kV Badod - Kota/ Modak	5.71	18.99	8.96	66.48	85.18	50.51	40.57	5.26	281.67
WR - NR 220 kV Auraiya - Malanpur/Mehgaon	3.00	1.33	9.69	1.27	4.04	0.00	0.00	0.00	19.33
WR - NR 400 kV Vindhyachal-Rihand	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.23	9.23
WR - NR HVDC Mundra - Mohindergarh	1712.21	1621.73	1598.96	1489.68	1402.69	1536.12	1457.45	1100.97	11919.80
Total WR - NR	4323.20	3697.86	3986.55	3831.36	3837.04	4129.89	4213.67	3795.74	31815.31
Import of NR from ER (ER-NR)									
ER - NR 765 kV Sasaram - Fatehpur	0.23	2.45	0.00	41.96	37.84	13.38	33.07	18.66	147.58
ER - NR 765 kV Gaya - Varanasi 2*S/C	155.61	69.65	92.50	300.77	346.88	369.90	423.94	343.69	2102.94
ER - WR 765 kV Gaya - Ballia	94.45	61.38	82.88	86.22	116.28	101.40	178.13	180.10	900.85
ER-NR 400 kV Patna - Ballia 2xD/C	232.02	347.01	425.62	522.22	350.10	298.05	423.85	407.83	3006.71
ER - NR 400 kV Muzaffarpur - Gorakhpur D/C	52.88	106.93	226.36	318.70	264.26	305.21	328.15	121.51	1723.99
ER - NR 400 kV Biharshariff - Ballia D/C	94.07	53.79	90.69	113.13	132.89	99.09	128.49	67.22	779.38
ER - NR 400 kV Barh - G'pur D/C	210.89	277.55	310.57	338.52	292.75	226.71	289.01	305.45	2251.46
ER - NR 400 kV Biharshariff - Varanasi D/C	9.30	6.55	2.75	45.93	73.45	39.81	95.99	23.11	296.88
ER - NR HVDC Sasaram (Bypass)	128.99	190.08	146.20	87.40	68.26	139.16	60.81		820.91
ER - NR 400 kV Sasaram -Varanasi								50.33	50.33
ER - NR 400 kV Sasaram -Allahabad								71.73	71.73
ER - NR 220 kV Pusauli - Sahupuri	106.82	116.07	134.41	140.71	118.33	46.06	67.05	118.64	848.09
ER - NR 132 kV Sahupuri - Karamnasa	14.40	7.14	5.61	0.00	0.00	0.00	0.00	0.55	27.70
ER - NR 132 kV Rihand - Son Nagar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.91	0.91
Total ER-NR	1099.66	1238.60	1517.58	1995.57	1801.05	1638.78	2028.49	1709.72	13029.45
Import of NR from NER (NER-NR)									
NER-NR HVDC Biswanath Chariali - Agra	317.02	284.77	119.29	341.91	437.06	504.86	383.40	382.29	2770.60
Total NER - NR	317.02	284.77	119.29	341.91	437.06	504.86	383.40	382.29	2770.60
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	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	0.00	0.00	0.00
NR - WR HVDC Vindhyachal	12.39	85.56	66.01	157.74	233.59	100.55	140.66	296.00	1092.49
NR - WR 400 kV Zerda Kankroli	137.71	140.87	159.62	58.91	3.86	27.51	7.78	36.46	572.72
NR - WR 400 kV Zerda Bhinmal	91.55	100.42	119.36	43.86	2.26	21.67	3.79	7.22	390.14
NR - WR 400 kV RAPP C - Shujalpur								0.00	0.00
NR - WR 220 kV Badod - Kota/ Modak	12.38	9.08	11.04	3.30	0.00	0.00	3.88	26.36	66.04
NR - WR 220 kV Auraiya - Malanpur/Mehgaon	17.40	16.03	3.76	19.45	11.32	23.82	28.68	60.56	181.02
NR-WR 400 kV Rihand-Vindhyachal	0.00	0.00	0.00	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	0.00	0.00	0.00
Total NR - WR	271.43	351.95	359.79	283.25	251.02	173.56	184.79	426.60	2302.40
Export of NR to ER (NR-ER)									
NR - ER 765 kV Sasaram - Fatehpur	96.68	101.63	98.39	42.19	62.60	85.72	14.06	48.42	549.69
NR - ER 765 kV Gaya - Varanasi 2*S/C	2.36	9.16	18.94	0.00	0.00	0.00	0.00	0.00	30.45
NR - ER 765 kV Gaya - Ballia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NR - ER 400 kV Patna - Ballia 2xD/C	0.00	0.00	0.00	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	0.00	0.00	0.00	16.70
NR - ER 400 kV Biharshariff - Ballia D/C	0.00	1.25	0.41	0.00	0.00	0.00	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	0.00	0.00	0.00
NR - ER 400 kV Biharshariff - Varanasi D/C	157.78	64.28	26.62	0.00	6.07	3.07	0.99	9.31	268.11
NR - ER HVDC Sasaram (Bypass)	3.72	13.23	4.62	79.53	56.55	4.86	49.29		211.81
NR - ER 400 kV Sasaram -Varanasi								58.31	58.31
NR - ER 400 kV Sasaram -Allahabad								14.18	14.18
NR - ER 220 kV Pusauli - Sahupuri	0.00	0.00	0.00	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	21.18	944.56	13.75	1043.37
NR - ER 132 kV Rihand - Son Nagar	16.28	17.82	15.35	13.86	15.69	15.63	20.59	22.27	137.48
Total NR - ER	289.20	212.96	186.31	160.93	156.19	130.46	1029.48	166.24	2331.77
Export of NR to NER (NER-NR)									
NR-NER HVDC Biswanath Chariali - Agra	0.00	0.00	1.25	0.00	0.00	0.00	11.83	70.93	84.01
Total NR - NER	0.00	0.00	1.25	0.00	0.00	0.00	11.83	70.93	84.01

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	244.39	162.04	87.61	953.33
WR - ER 765 kV Dharamjaygarh - Jharsuguda D/C	0.00	0.00	0.00	0.86	4.01	0.46	1.09	3.44	9.87
WR - ER 400 kV Sipat - Ranchi D/C	163.93	99.07	74.53	33.78	156.36	159.93	122.57	79.95	890.11
WR - ER 400 kV Raigarh - Sterlite	14.64	19.53	6.38	33.03	18.19	69.43	33.68	6.08	200.97
WR - ER 400 kV Raigarh-Ind Bharat	54.26	13.84	28.20	28.57	53.55	70.16	46.45	42.80	337.83
WR - ER 400 kV Raigarh-Rourkela	55.15	20.19	24.15	37.03	74.80	87.61	54.60	43.07	396.59
WR - ER 400 kV Raigarh - Jharsuguda	77.26	19.59	44.54	44.96	73.04	104.51	64.06	62.20	490.15
WR - ER 220 kV Korba - Budhipadar D/C	77.56	74.65	5.19	7.28	10.37	42.85	46.47	77.29	341.66
WR - ER 220 kV Raigarh - Budhipadar	5.19	11.58	0.00	0.10	0.00	0.03	0.16	4.07	21.13
Total WR - ER	506.50	277.32	185.13	280.02	675.69	779.36	531.11	406.51	3641.64
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	2.00	8.07	24.76	159.26
ER - WR 765 kV Dharamjaygarh - Jharsuguda D/C	476.40	392.09	364.14	344.16	220.45	368.97	408.30	281.38	2855.90
ER - WR 400 kV Sipat - Ranchi D/C	0.00	0.00	0.06	1.37	0.12	0.12	0.02	1.51	3.21
ER - WR 400 kV Raigarh - Sterlite	71.10	4.96	55.60	1.39	31.02	0.67	18.61	45.15	228.51
ER - WR 400 kV Raigarh-Ind Bharat	1.90	5.62	0.26	12.37	0.28	0.04	0.43	0.13	21.04
ER - WR 400 kV Raigarh-Rourkela	0.12	3.58	0.45	2.62	0.24	0.26	1.23	1.89	10.38
ER - WR 400 kV Raigarh - Jharsuguda	2.83	8.89	0.41	1.16	0.47	0.06	0.63	0.22	14.66
ER - WR 220 kV Korba - Budhipadar D/C	0.00	0.00	5.02	20.33	12.72	0.43	1.09	0.00	39.59
ER - WR 220 kV Raigarh - Budhipadar	9.20	7.63	62.93	70.86	77.57	47.53	51.17	11.76	338.64
Total ER - WR	568.67	450.79	540.15	491.05	344.10	420.08	489.57	366.79	3671.19
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	393.71	297.70	381.49	2129.08
ER - NER 220 kV Birpara - Salakati D/C	37.77	28.43	29.34	53.94	87.32	87.09	77.30	54.77	455.97
Total ER - NER	389.41	235.03	85.56	144.71	438.27	480.80	375.00	436.27	2585.05
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	3.67	29.23	35.69	271.86
NER - ER 220 kV Birpara - Salakati D/C	0.00	0.26	0.00	0.11	0.01	0.00	0.02	2.34	2.73
Total NER - ER	0.00	7.33	82.30	108.41	5.60	3.67	29.25	38.03	274.59
Export of ER to SR (ER - SR)									
ER - SR HVDC Gazuwaka	302.43	355.83	358.74	384.11	408.09	348.69	426.62	454.47	3038.99
ER - SR HVDC Talchar - Kolar	1309.89	1296.20	1101.36	1159.40	1206.35	992.13	1170.26	1319.98	9555.57
Total ER - SR	1612.32	1652.03	1460.10	1543.51	1614.44	1340.83	1596.88	1774.45	12594.56
Import of ER from SR (SR - ER)									
SR - ER HVDC Gazuwaka	0.00	0.00	0.00	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	0.00	0.00	0.00
Total SR - ER	0.00	0.00	0.00	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	538.00	656.54	693.68	5021.34
WR - SR 765 kV Sholapur - Raichur	1345.88	1165.09	1006.32	1205.46	1227.59	1096.06	1210.70	1325.53	9582.63
WR - SR 400KV Kolhapur-Kudgi D/C	41.69	50.95	23.80	58.51	106.98	119.77	166.32	212.48	780.49
Total WR - SR	2101.18	1856.88	1546.05	1886.32	1974.95	1753.84	2033.55	2231.68	15384.45
Import of WR from SR (SR - WR)									
SR - WR HVDC Bhadravati	0.00	0.00	0.00	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	0.07	0.00	0.00	9.06
SR - WR 400KV Kolhapur-Kudgi D/C	14.56	11.09	10.61	12.89	5.84	3.22	0.71	0.08	59.00
Total SR - WR	14.56	15.56	15.08	12.92	5.87	3.29	0.71	0.08	68.07
TOTAL ALL INDIA	11176	9996	9965	10738	11104	11359	12908	11805	89052

12.1 Import of NR from WR, ER & NER during November 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 Gwallor - Agra D/C	WR-NR 765 kV Gwallor-Phagi D/C	WR - NR HVDC V'chal	WR - NR 400 kV zerdakankrolli	WR - NR 400 kV Zerdabhinmal	WR-NR 400 kV RAPP C - Shujalpur	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 WR - NR	ER - NR 765 kV Sasaram - Fatehpur	ER - NR 765 kV Gaya - Varanasi 2'S/C	ER - WR 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'harif - Balla D/C	ER - NR 400 kV B'harif - Varanasi D/C	ER - NR HVDC Sasaram (bypass)	ER-NR 400 kV Sasaram - Varanasi	ER-NR 400 kV Sasaram - Allahabad	ER - NR 220 kV Pusaull - Sahupuri	ER - NR 132 kV Sahupuri - K'nasa	ER - NR 132 kV Rihand - Son Nagar	Total ER - NR	NER-NR HVDC Biswanath Chariali - Agra	Total NER-NR	
1-Nov-16	46.80	29.11	0.00	2.56	3.90		0.00	0.00	0.00	22.89	105.25	0.00	7.87	5.61	11.74	2.52	0.97	8.36	0.00		0.00	7.17	4.06	0.00	0.00	48.29	16.59	16.59
2-Nov-16	50.85	33.92	0.00	2.93	4.04		0.26	0.00	0.00	25.96	117.97	0.00	7.91	6.22	11.20	2.78	2.30	8.76	0.00		0.00	7.06	3.93	0.00	0.00	50.15	16.31	16.31
3-Nov-16	50.77	37.21	0.00	1.76	3.00		0.59	0.00	0.00	40.11	133.44	0.00	7.73	4.88	10.40	1.50	0.57	9.09	0.00		0.00	7.15	3.88	0.00	0.00	45.20	15.93	15.93
4-Nov-16	52.90	37.07	0.00	1.20	2.50		0.71	0.00	0.00	43.55	137.92	0.00	9.19	6.47	12.61	2.32	1.77	9.36	0.00		0.00	7.15	4.18	0.00	0.00	53.05	16.42	16.42
5-Nov-16	49.48	34.04	0.00	0.00	0.77		0.00	0.00	0.00	48.67	132.96	0.00	10.60	5.56	12.12	1.94	0.79	9.76	0.22		0.00	7.09	4.07	0.00	0.00	52.14	15.97	15.97
6-Nov-16	38.14	32.23	0.00	0.00	0.00		0.00	0.00	0.00	48.17	118.54	0.00	9.38	4.16	12.32	3.31	0.64	9.49	0.87		0.00	4.02	3.86	0.00	0.00	48.03	16.24	16.24
7-Nov-16	38.14	33.75	0.00	0.00	0.00		0.56	0.00	0.00	42.82	115.26	0.00	8.52	4.19	13.09	3.31	1.09	9.49	0.43		0.00	3.53	3.74	0.00	0.00	47.38	16.37	16.37
8-Nov-16	50.34	35.62	0.00	0.00	0.33		0.00	0.00	0.00	36.31	122.60	0.00	8.72	5.51	14.94	4.61	2.31	10.59	0.48		0.00	3.60	3.63	0.00	0.00	54.39	15.66	15.66
9-Nov-16	48.02	34.15	0.00	0.00	0.00		0.00	0.00	0.00	36.31	118.48	0.00	10.76	5.66	15.01	3.61	1.88	11.03	0.73		0.00	3.59	4.00	0.00	0.00	56.25	16.00	16.00
10-Nov-16	48.32	33.40	0.00	0.00	0.00		0.00	0.00	0.00	39.85	121.57	0.00	12.38	5.79	15.11	4.86	2.27	10.85	1.21		0.00	3.54	3.78	0.00	0.00	59.78	12.71	12.71
11-Nov-16	46.97	31.62	0.00	0.00	0.00		0.00	0.00	0.85	40.50	119.94	0.00	12.38	5.48	14.74	5.01	1.71	11.02	1.21		0.00	3.52	4.02	0.00	0.00	59.08	11.59	11.59
12-Nov-16	49.54	35.24	0.00	0.00	0.29	5.05	0.00	0.00	0.00	32.02	122.13	2.73	11.32	5.90	14.03	3.87	1.34	11.06	0.67		0.00	3.46	3.95	0.00	0.00	58.32	13.90	13.90
13-Nov-16	49.54	33.35	0.00	0.00	0.29	4.48	0.00	0.00	0.00	31.49	119.14	2.73	8.91	5.13	13.38	2.50	0.63	10.64	0.00		0.00	0.00	3.95	0.00	0.00	47.87	13.90	13.90
14-Nov-16	43.77	33.54	0.00	0.00	0.77	5.11	0.00	0.00	0.00	37.91	121.10	0.00	9.90	4.87	14.90	2.21	0.78	11.30	0.00		0.00	3.66	4.50	0.00	0.00	52.11	16.68	16.68
15-Nov-16	49.56	35.67	0.00	0.00	0.79	0.00	0.00	0.00	0.00	37.46	123.49	0.00	11.18	5.68	14.34	1.94	0.97	11.50	0.00		0.52	2.77	3.97	0.00	0.00	52.87	15.91	15.91
16-Nov-16	49.56	37.39	0.00	0.00	0.46	0.00	0.00	0.00	8.38	31.68	127.47	0.00	11.80	6.28	14.03	2.44	1.24	11.03	0.00		5.27	0.00	4.19	0.00	0.00	56.27	15.34	15.34
17-Nov-16	46.38	36.85	0.00	0.00	0.53	6.92	0.00	0.00	0.00	36.02	126.70	0.00	11.87	6.39	14.84	2.78	1.55	11.12	0.49		5.31	0.00	3.36	0.00	0.00	57.71	15.84	15.84
18-Nov-16	46.99	36.64	0.00	0.00	0.17	8.18	0.00	0.00	0.00	40.27	132.23	0.00	11.96	6.50	14.57	3.35	1.96	10.69	0.00		2.67	0.00	3.57	0.00	0.00	55.26	16.04	16.04
19-Nov-16	45.37	37.25	0.00	0.00	1.03	7.51	0.00	0.00	0.00	36.58	127.74	0.00	12.49	6.64	15.65	4.66	2.65	11.21	0.46		4.81	0.18	3.70	0.00	0.00	62.45	16.22	16.22
20-Nov-16	44.45	37.80	0.00	0.00	0.41	5.57	0.00	0.00	0.00	25.99	114.21	0.00	11.38	6.09	14.16	3.35	1.74	10.52	0.00		5.31	0.12	3.53	0.00	0.00	56.19	16.10	16.10
21-Nov-16	49.48	39.94	0.00	0.00	0.28	5.69	1.94	0.00	0.00	28.43	125.76	0.00	11.67	6.86	11.56	3.96	2.67	9.60	0.00		5.02	0.03	3.84	0.00	0.00	55.20	16.02	16.02
22-Nov-16	48.36	38.66	0.00	0.00	0.78	7.00	0.00	0.00	0.00	40.93	135.73	0.00	12.40	6.70	10.83	3.24	2.90	9.22	0.05		4.86	0.00	4.18	0.00	0.00	54.38	15.92	15.92
23-Nov-16	51.17	33.85	1.09	0.00	0.73	7.92	0.00	0.00	0.00	43.81	138.57	0.00	13.38	7.46	11.08	2.82	3.33	9.35	0.16		5.07	3.59	4.59	0.00	0.00	60.83	16.22	16.22
24-Nov-16	51.17	32.70	0.00	0.00	0.77	8.88	0.00	0.00	0.00	41.70	135.22	0.00	13.91	7.44	12.32	1.91	3.16	9.78	0.70		4.84	0.16	3.87	0.00	0.00	58.10	16.22	16.22
25-Nov-16	54.16	34.96	0.61	0.00	0.92	3.79	1.19	0.00	0.00	41.36	136.99	0.00	14.22	7.75	14.68	3.12	3.57	10.51	0.80		4.97	0.18	4.45	0.00	0.00	64.24	8.20	8.20
26-Nov-16	52.82	29.22	0.93	0.00	0.60	9.81	0.00	0.00	0.00	46.22	139.60	0.00	14.45	6.65	12.48	9.10	4.56	9.14	1.58		1.68	0.18	4.11	0.00	0.00	63.94	0.00	0.00
27-Nov-16	50.03	30.85	0.00	0.00	1.93	9.40	0.00	0.00	0.00	36.50	128.71	1.99	12.22	6.15	12.31	9.58	4.68	8.65	2.43		0.00	0.00	4.22	0.00	0.00	62.20	0.00	0.00
28-Nov-16	53.77	31.71	0.00	0.00	2.27	8.99	0.00	0.00	0.00	28.92	125.66	4.35	14.11	6.23	16.74	9.81	4.54	10.73	4.12		0.00	0.00	4.22	0.00	0.00	74.83	0.00	0.00
29-Nov-16	58.52	32.90	2.66	0.00	1.27	10.62	0.00	0.00	0.00	28.92	134.88	4.52	16.08	5.26	17.22	9.97	4.33	11.14	3.48		0.00	0.00	4.09	0.55	0.91	77.55	0.00	0.00
30-Nov-16	58.52	35.34	3.81	0.00	0.25	8.91	0.00	0.00	0.00	29.65	136.48	2.34	15.04	6.62	15.45	5.15	4.35	10.50	3.02		0.00	0.00	3.21	0.00	0.00	65.67	0.00	0.00
Total	1473.87	1035.95	9.11	8.45	29.07	123.83	5.26	0.00	9.23	1100.97	3795.74	18.66	343.69	180.10	407.83	121.51	67.22	305.45	23.11	0.00	50.33	71.73	118.64	0.55	0.91	1709.72	382.29	382.29

12.2 Export of NR to WR, ER & NER during November 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 Zerdakankrolli	WR - NR 400 kV Zerdakinmal	WR-NR 400 kV RAPP C - Shujapur	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'hariff Balla D/C	ER - NR 400 kV Barh - G'pur D/C	ER - NR 400 kV B'hariff Varanasi D/C	ER - NR HVDC Sasaram (Bypass)	ER-NR 400 kV Sasaram - Varanasi	ER-NR 400 kV Sasaram - Allahabad	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-Nov-16	0.00	0.00	12.10	0.00	0.00		0.28	1.64	0.00	0.00	14.02	3.89	0.00	0.00	0.00	0.00	0.00	0.00	0.99		5.87	0.00	0.00	0.54	0.97	12.25	0.00	0.00
2-Nov-16	0.00	0.00	12.12	0.00	0.00		0.00	1.33	0.00	0.00	13.45	2.68	0.00	0.00	0.00	0.00	0.00	0.96		5.16	0.00	0.00	0.59	0.95	10.33	0.00	0.00	
3-Nov-16	0.00	0.00	10.77	0.00	0.00		0.00	1.50	0.00	0.00	12.27	2.56	0.00	0.00	0.00	0.00	0.00	1.55		5.76	0.00	0.00	0.60	0.93	11.41	0.00	0.00	
4-Nov-16	0.00	0.00	11.42	0.00	0.00		0.00	1.66	0.00	0.00	13.09	3.61	0.00	0.00	0.00	0.00	0.00	1.05		5.98	0.00	0.00	0.58	0.93	12.15	0.00	0.00	
5-Nov-16	0.00	0.00	12.13	0.57	0.00		1.14	2.09	0.00	0.00	15.93	2.92	0.00	0.00	0.00	0.00	0.00	0.00		5.55	0.00	0.00	0.61	0.95	10.03	0.00	0.00	
6-Nov-16	0.00	0.00	9.47	3.00	1.72		1.69	2.61	0.00	0.00	18.48	1.74	0.00	0.00	0.00	0.00	0.00	0.00		4.34	0.00	0.00	0.58	1.01	7.67	0.00	0.00	
7-Nov-16	0.00	0.00	12.13	1.81	1.72		0.00	2.51	0.00	0.00	18.17	0.95	0.00	0.00	0.00	0.00	0.00	0.00		4.55	0.00	0.00	0.58	0.90	6.97	0.00	0.00	
8-Nov-16	0.00	0.00	12.10	1.30	0.00		0.32	1.98	0.00	0.00	15.70	0.37	0.00	0.00	0.00	0.00	0.00	0.00		4.78	0.00	0.00	0.53	0.73	6.41	0.00	0.00	
9-Nov-16	0.00	0.00	12.10	2.15	1.13		0.61	2.18	0.00	0.00	18.16	0.25	0.00	0.00	0.00	0.00	0.00	0.00		4.91	0.00	0.00	0.56	0.97	6.69	0.00	0.00	
10-Nov-16	0.00	0.00	12.15	2.18	0.87		0.82	2.11	0.00	0.00	18.14	0.01	0.00	0.00	0.00	0.00	0.00	0.00		4.56	0.00	0.00	0.55	0.96	6.08	0.00	0.00	
11-Nov-16	0.00	0.00	12.15	2.92	1.78		0.54	2.18	0.00	0.00	19.57	1.48	0.00	0.00	0.00	0.00	0.00	0.00		1.93	0.00	0.00	0.51	0.95	4.87	0.00	0.00	
12-Nov-16	0.00	0.00	12.07	1.10	0.00	0.00	0.34	1.98	0.00	0.00	15.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.52	0.66	1.18	0.00	0.00	
13-Nov-16	0.00	0.00	11.99	1.00	0.00	0.00	1.27	2.33	0.00	0.00	16.58	3.41	0.00	0.00	0.00	0.00	0.00	1.17		0.00	1.17	0.00	0.52	0.27	6.54	0.00	0.00	
14-Nov-16	0.00	0.00	12.19	1.02	0.00	0.00	0.90	2.40	0.00	0.00	16.50	2.85	0.00	0.00	0.00	0.00	0.00	0.86		0.00	0.00	0.00	-0.44	-0.83	2.44	0.00	0.00	
15-Nov-16	0.00	0.00	11.92	1.34	0.00	0.00	1.50	2.22	0.00	0.00	16.97	2.53	0.00	0.00	0.00	0.00	0.00	0.80		0.00	0.00	0.00	0.44	0.86	4.63	0.00	0.00	
16-Nov-16	0.00	0.00	12.11	1.44	0.00	0.00	1.62	2.14	0.00	0.00	17.31	2.52	0.00	0.00	0.00	0.00	0.00	0.92		0.00	0.01	0.00	0.43	0.91	4.79	0.00	0.00	
17-Nov-16	0.00	0.00	12.12	1.47	0.00	0.00	1.31	2.17	0.00	0.00	17.06	2.15	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.09	0.00	0.46	0.74	3.44	0.00	0.00	
18-Nov-16	0.00	0.00	12.14	2.08	0.00	0.00	0.69	1.07	0.00	0.00	15.98	1.52	0.00	0.00	0.00	0.00	0.00	0.34		0.00	0.10	0.00	0.46	0.89	3.31	0.00	0.00	
19-Nov-16	0.00	0.00	10.95	1.09	0.00	0.00	1.49	2.39	0.00	0.00	15.91	0.91	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.50	0.81	2.21	0.00	0.00	
20-Nov-16	0.00	0.00	12.10	0.83	0.00	0.00	1.86	2.31	0.00	0.00	17.11	1.93	0.00	0.00	0.00	0.00	0.00	0.36		0.00	0.00	0.00	0.53	0.85	3.67	0.00	0.00	
21-Nov-16	0.00	0.00	10.64	1.28	0.00	0.00	0.00	1.97	0.00	0.00	13.88	1.85	0.00	0.00	0.00	0.00	0.00	0.32		0.00	0.00	0.00	0.46	0.80	3.43	0.00	0.00	
22-Nov-16	0.00	0.00	7.77	0.16	0.00	0.00	1.57	2.17	0.00	0.00	11.67	1.97	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.04	0.00	0.49	0.82	3.32	0.00	0.00	
23-Nov-16	0.00	0.00	3.82	1.72	0.00	0.00	1.49	2.02	0.00	0.00	9.04	2.15	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.50	0.90	3.56	0.00	0.00	
24-Nov-16	0.00	0.00	7.67	1.52	0.00	0.00	0.89	2.00	0.00	0.00	12.08	2.15	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.51	0.84	3.50	0.00	0.00	
25-Nov-16	0.00	0.00	7.83	0.98	0.00	0.00	1.19	1.60	0.00	0.00	11.60	1.99	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.47	0.98	3.44	0.00	0.00	
26-Nov-16	0.00	0.00	1.81	1.85	0.00	0.00	1.16	1.79	0.00	0.00	6.61	0.07	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.55	0.82	1.43	11.91	11.91	
27-Nov-16	0.00	0.00	8.25	0.62	0.00	0.00	0.30	1.89	0.00	0.00	11.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.16	2.81	0.00	0.57	0.87	4.40	12.35	12.35	
28-Nov-16	0.00	0.00	8.25	0.13	0.00	0.00	1.04	2.19	0.00	0.00	11.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00		3.43	2.81	0.00	0.56	0.84	7.64	14.84	14.84	
29-Nov-16	0.00	0.00	0.00	1.06	0.00	0.00	0.89	2.07	0.00	0.00	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.82	3.55	0.00	0.00	0.00	4.38	15.91	15.91	
30-Nov-16	0.00	0.00	3.77	1.85	0.00	0.00	1.47	2.07	0.00	0.00	9.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.49	3.61	0.00	0.00	0.00	4.10	15.91	15.91	
Total	0.00	0.00	296.00	36.46	7.22	0.00	26.36	60.56	0.00	0.00	426.60	48.42	0.00	0.00	0.00	0.00	0.00	9.31	0.00	58.31	14.18	0.00	13.75	22.27	166.24	70.93	70.93	

Date	12.3 Import - Export of ER with WR & NER during November 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 Dharamjaygarh - Ranchi 2x5/C	WR - ER 765 kv Dharamjaygarh - Jharsuguda D/C	WR - ER 400 kv Sipat - Ranchi D/C	WR - ER 400 kv Raigarh Sterilite	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 Dharamjaygarh - Ranchi 2x5/C	ER - WR 765 kv Dharamjaygarh - Jharsuguda D/C	ER - WR 400 kv Sipat - Ranchi D/C	ER - WR 400 kv Raigarh - Sterilite	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 Geylegphusalakati	ER - NER 132 kv Motangara	ER - NER 400 kv Binaguri - Bongaigaon 2x0/C	ER - NER 220 kv Birpara - Salakati D/C	Total ER - NER	ER - NER 132 kv Geylegphusalakati	ER - NER 132 kv Motangara	NER - ER 400 kv Binaguri - Bongaigaon 2x0/C	NER - ER 220 kv Birpara - Salakati D/C	Total NER - ER
1-Nov-16	5.44	1.12	4.13	0.34	1.77	2.14	2.47	2.72	0.02	20.15	0.00	2.89	0.00	1.35	0.00	0.00	0.00	0.00	0.48	4.72	0.78	0.96	16.73	3.13	21.59	0.00	0.00	0.00	0.00	0.00
2-Nov-16	7.70	0.16	5.03	0.01	2.03	2.63	2.81	2.79	0.01	23.17	0.00	3.05	0.00	1.62	0.00	0.00	0.00	0.00	0.42	5.09	0.75	0.82	16.74	3.04	21.36	0.00	0.00	0.00	0.00	0.00
3-Nov-16	7.38	0.11	4.98	0.04	1.69	2.24	2.35	2.54	0.00	21.32	0.00	4.90	0.00	1.68	0.00	0.00	0.00	0.00	0.67	7.25	0.68	0.82	17.29	2.78	21.56	0.00	0.00	0.00	0.00	0.00
4-Nov-16	8.12	0.77	5.22	0.04	1.62	2.38	2.24	3.03	0.11	23.52	0.00	3.18	0.00	1.45	0.00	0.00	0.00	0.00	0.30	4.93	0.66	0.78	15.77	2.61	19.83	0.00	0.00	0.00	0.00	0.00
5-Nov-16	4.37	0.33	3.37	0.01	1.09	1.30	1.51	2.87	0.03	14.88	0.18	6.29	0.00	1.99	0.00	0.02	0.00	0.00	0.57	9.05	0.69	0.79	15.28	2.86	19.63	0.00	0.00	0.00	0.00	0.00
6-Nov-16	2.06	0.00	2.16	0.00	0.45	0.47	0.61	2.59	0.03	8.35	1.42	5.98	0.03	2.54	0.06	0.32	0.10	0.00	0.51	10.95	0.64	0.66	11.95	2.37	15.62	0.00	0.00	0.00	0.00	0.00
7-Nov-16	1.82	0.02	1.68	0.00	1.08	0.99	1.46	2.25	0.13	9.43	1.33	8.65	0.08	2.65	0.00	0.10	0.00	0.00	0.48	13.29	0.63	0.65	11.92	2.37	15.57	0.00	0.00	0.00	0.00	0.00
8-Nov-16	2.07	0.00	2.59	0.51	1.73	1.73	2.43	3.06	0.40	14.52	0.24	7.26	0.00	1.28	0.00	0.00	0.00	0.00	0.02	8.80	0.42	0.70	14.40	2.51	18.02	0.00	0.00	0.00	0.00	0.00
9-Nov-16	1.59	0.00	1.97	0.53	1.75	1.35	2.48	1.94	0.05	11.66	1.05	10.70	0.01	0.16	0.00	0.00	0.00	0.00	0.40	12.31	0.59	0.67	15.69	2.70	19.66	0.00	0.00	0.00	0.00	0.00
10-Nov-16	1.63	0.00	1.88	0.37	1.55	1.34	2.18	2.38	0.33	11.66	0.66	9.02	0.00	1.00	0.00	0.00	0.00	0.00	0.15	10.82	0.53	0.65	10.98	2.00	14.16	0.00	0.00	0.00	0.00	0.00
11-Nov-16	2.08	0.00	2.31	1.17	1.05	1.77	2.72	3.09	0.20	14.40	0.70	7.15	0.00	0.02	0.00	0.00	0.00	0.00	0.13	8.00	0.50	0.58	8.51	1.91	11.50	0.00	0.00	0.00	0.00	0.00
12-Nov-16	3.52	0.47	3.28	0.08	1.27	2.14	2.98	3.20	0.15	17.09	0.09	6.30	0.00	0.69	0.00	0.00	0.00	0.00	0.18	7.26	0.50	0.70	12.25	2.05	15.51	0.00	0.00	0.00	0.00	0.00
13-Nov-16	3.23	0.12	2.97	0.53	0.99	1.23	1.40	2.58	0.00	13.06	0.33	4.82	0.00	0.50	0.00	0.02	0.00	0.00	0.82	6.50	0.59	0.64	14.14	2.56	17.93	0.00	0.00	0.00	0.00	0.00
14-Nov-16	2.27	0.23	2.39	0.57	1.45	1.60	2.04	3.62	0.43	14.59	0.79	4.52	0.01	0.33	0.00	0.01	0.00	0.00	0.15	5.81	0.58	0.61	16.63	2.81	20.63	0.00	0.00	0.00	0.00	0.00
15-Nov-16	3.06	0.01	2.91	0.17	1.59	1.69	2.23	3.19	0.29	15.14	0.24	7.66	0.00	0.90	0.00	0.00	0.00	0.00	0.13	8.92	0.57	0.67	17.24	2.87	21.34	0.00	0.00	0.00	0.00	0.00
16-Nov-16	4.35	0.00	3.30	0.94	1.56	1.85	2.20	2.36	0.27	16.82	0.00	10.23	0.00	0.20	0.00	0.00	0.00	0.00	0.10	10.53	0.66	0.64	16.89	0.98	19.17	0.00	0.00	0.00	0.00	0.00
17-Nov-16	3.51	0.00	2.66	0.20	1.30	1.38	1.82	2.36	0.13	13.34	0.38	10.16	0.00	1.22	0.00	0.02	0.00	0.00	0.36	12.14	0.73	0.60	17.21	0.00	18.54	0.00	0.00	0.00	0.00	0.00
18-Nov-16	2.48	0.00	2.09	0.00	0.97	0.76	1.32	2.52	0.07	10.21	0.46	15.09	0.01	2.53	0.00	0.08	0.01	0.00	0.54	18.71	0.71	0.52	15.67	0.00	16.90	0.00	0.00	0.00	0.00	0.00
19-Nov-16	1.79	0.00	1.55	0.00	1.12	0.79	1.55	1.78	0.00	8.58	2.76	19.20	0.61	3.07	0.00	0.48	0.00	0.00	1.11	27.23	0.57	0.55	14.71	1.06	16.89	0.00	0.00	0.00	0.00	0.00
20-Nov-16	2.13	0.00	2.31	0.05	1.59	1.23	2.22	2.66	0.07	12.26	1.28	11.97	0.03	1.64	0.00	0.10	0.00	0.00	0.68	15.72	0.42	0.41	13.11	2.09	16.04	0.00	0.00	0.00	0.00	0.00
21-Nov-16	2.54	0.00	2.58	0.00	1.92	1.60	2.69	2.74	0.18	14.26	1.24	10.63	0.02	1.89	0.00	0.01	0.00	0.00	0.49	14.26	0.47	0.28	14.04	1.96	16.76	0.00	0.00	0.00	0.00	0.00
22-Nov-16	2.46	0.00	2.27	0.00	1.45	1.23	2.00	2.60	0.36	12.36	1.39	12.46	0.34	3.46	0.00	0.14	0.00	0.00	0.12	17.91	0.35	0.43	14.19	1.74	16.71	0.00	0.00	0.00	0.00	0.00
23-Nov-16	2.60	0.00	2.36	0.00	1.22	0.93	1.69	1.91	0.08	10.78	1.03	15.45	0.00	2.78	0.00	0.12	0.00	0.00	0.61	19.99	0.53	0.22	16.27	2.01	19.02	0.00	0.08	0.00	0.00	0.08
24-Nov-16	1.94	0.00	2.38	0.03	1.58	1.14	2.20	2.19	0.09	11.54	0.57	14.74	0.00	1.85	0.00	0.00	0.00	0.00	0.26	17.42	0.55	0.34	17.10	2.43	20.42	0.00	0.10	0.00	0.00	0.10
25-Nov-16	2.23	0.00	2.58	0.23	1.90	1.72	2.68	1.96	0.16	13.47	0.24	12.27	0.00	0.91	0.00	0.00	0.00	0.00	0.20	13.61	0.57	0.16	14.15	2.22	17.09	0.00	0.06	1.17	0.03	1.26
26-Nov-16	0.84	0.00	1.69	0.01	1.58	1.04	2.22	1.91	0.04	9.32	1.76	13.96	0.02	1.55	0.00	0.02	0.00	0.00	0.44	17.77	0.40	0.00	0.07	0.07	0.54	0.00	0.14	6.03	0.30	6.47
27-Nov-16	0.69	0.08	2.11	0.01	1.36	1.11	1.90	2.60	0.14	10.01	1.06	7.85	0.00	1.17	0.00	0.00	0.00	0.00	0.19	10.28	0.33	0.04	0.04	0.04	0.45	0.00	0.07	7.05	0.42	7.54
28-Nov-16	0.62	0.02	1.49	0.13	1.43	1.12	2.01	2.70	0.20	9.71	2.14	7.69	0.23	0.91	0.00	0.06	0.00	0.00	0.11	11.14	0.21	0.08	0.00	0.03	0.32	0.00	0.06	8.79	0.64	9.49
29-Nov-16	0.96	0.00	1.48	0.10	1.52	1.17	2.12	2.70	0.08	10.13	2.62	11.91	0.10	1.21	0.00	0.03	0.00	0.00	0.31	16.17	0.14	0.18	0.05	0.02	0.39	0.00	0.00	9.19	0.69	9.89
30-Nov-16	2.14	0.00	2.26	0.00	1.20	1.02	1.68	2.46	0.04	10.78	0.81	15.43	0.01	2.58	0.06	0.35	0.10	0.00	0.84	20.18	0.26	0.42	12.49	1.54	14.71	0.00	0.00	3.45	0.27	3.72
Total	87.61	3.44	79.95	6.08	42.80	43.07	62.20	77.29	4.07	406.51	24.76	281.38	1.51	45.15	0.13	1.89	0.22	0.00	11.76	366.79	16.02	15.59	381.49	54.77	467.87	0.01	0.50	35.69	2.34	38.54

Date	12.4 Import and Export of SR with ER & WR during November 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-Nov-16	13.24	42.40	55.64	0.00	0.00	0.00	22.00	45.94	7.85	75.79	0.00	0.00	0.00	0.00
2-Nov-16	12.25	42.14	54.38	0.00	0.00	0.00	23.68	43.77	7.55	75.00	0.00	0.00	0.00	0.00
3-Nov-16	14.69	41.24	55.92	0.00	0.00	0.00	23.51	41.74	7.32	72.57	0.00	0.00	0.00	0.00
4-Nov-16	15.50	44.58	60.08	0.00	0.00	0.00	23.48	42.15	6.60	72.23	0.00	0.00	0.01	0.01
5-Nov-16	16.09	41.29	57.38	0.00	0.00	0.00	23.49	41.70	6.92	72.11	0.00	0.00	0.00	0.00
6-Nov-16	15.49	41.12	56.60	0.00	0.00	0.00	23.41	42.63	8.29	74.32	0.00	0.00	0.00	0.00
7-Nov-16	14.94	44.40	59.34	0.00	0.00	0.00	21.22	48.08	8.48	77.79	0.00	0.00	0.00	0.00
8-Nov-16	15.55	45.85	61.40	0.00	0.00	0.00	23.56	39.94	5.50	69.00	0.00	0.00	0.00	0.00
9-Nov-16	15.15	47.19	62.34	0.00	0.00	0.00	23.40	46.46	7.19	77.05	0.00	0.00	0.00	0.00
10-Nov-16	15.76	42.94	58.70	0.00	0.00	0.00	23.71	36.73	5.77	66.21	0.00	0.00	0.03	0.03
11-Nov-16	14.79	43.40	58.19	0.00	0.00	0.00	23.68	42.13	7.33	73.15	0.00	0.00	0.00	0.00
12-Nov-16	14.79	43.86	58.66	0.00	0.00	0.00	23.53	37.88	5.94	67.35	0.00	0.00	0.00	0.00
13-Nov-16	14.79	37.34	52.14	0.00	0.00	0.00	23.51	37.46	5.97	66.94	0.00	0.00	0.00	0.00
14-Nov-16	15.34	43.58	58.92	0.00	0.00	0.00	23.56	42.59	6.32	72.47	0.00	0.00	0.00	0.00
15-Nov-16	16.07	43.24	59.31	0.00	0.00	0.00	23.68	46.80	7.76	78.23	0.00	0.00	0.00	0.00
16-Nov-16	16.06	46.17	62.23	0.00	0.00	0.00	23.79	46.52	7.11	77.42	0.00	0.00	0.00	0.00
17-Nov-16	14.16	44.53	58.69	0.00	0.00	0.00	21.84	50.09	7.67	79.60	0.00	0.00	0.00	0.00
18-Nov-16	13.36	48.01	61.37	0.00	0.00	0.00	23.81	49.62	7.24	80.67	0.00	0.00	0.00	0.00
19-Nov-16	13.63	46.91	60.53	0.00	0.00	0.00	23.82	48.68	8.21	80.71	0.00	0.00	0.00	0.00
20-Nov-16	14.49	46.77	61.26	0.00	0.00	0.00	23.82	46.20	6.89	76.90	0.00	0.00	0.00	0.00
21-Nov-16	16.14	48.11	64.25	0.00	0.00	0.00	21.82	47.13	7.71	76.66	0.00	0.00	0.00	0.00
22-Nov-16	16.14	46.08	62.22	0.00	0.00	0.00	23.80	46.03	7.79	77.62	0.00	0.00	0.00	0.00
23-Nov-16	16.14	41.38	57.53	0.00	0.00	0.00	23.79	44.52	7.35	75.66	0.00	0.00	0.00	0.00
24-Nov-16	16.22	40.29	56.51	0.00	0.00	0.00	18.57	43.34	6.82	68.74	0.00	0.00	0.00	0.00
25-Nov-16	16.15	45.17	61.32	0.00	0.00	0.00	21.59	47.57	7.20	76.37	0.00	0.00	0.00	0.00
26-Nov-16	16.16	47.85	64.01	0.00	0.00	0.00	22.57	49.65	7.92	80.14	0.00	0.00	0.00	0.00
27-Nov-16	16.15	47.49	63.64	0.00	0.00	0.00	23.73	42.38	6.49	72.60	0.00	0.00	0.00	0.00
28-Nov-16	16.15	46.47	62.63	0.00	0.00	0.00	23.75	43.91	7.47	75.13	0.00	0.00	0.03	0.03
29-Nov-16	16.15	46.38	62.53	0.00	0.00	0.00	23.77	40.02	5.64	69.42	0.00	0.00	0.01	0.01
30-Nov-16	12.95	33.79	46.74	0.00	0.00	0.00	23.78	43.87	6.16	73.82	0.00	0.00	0.00	0.00
Total	454.47	1319.98	1774.45	0.00	0.00	0.00	693.68	1325.53	212.48	2231.68	0.00	0.00	0.08	0.08

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

अप्रैल 2016 से मार्च 2017 April 2016 to March 2017

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

माह MONTH	भूटान BHUTAN	नेपाल NEPAL	बांग्लादेश BANGLADESH	म्यान्मार MYANMAR
	Energy Exchange (In MU)	Energy Exchange (In MU)	Energy Exchange (In MU)	Energy Exchange (In MU)
अप्रैल 2016 APR'16	150.05	-196.98	-361.40	-0.09
मई 2016 MAY'16	255.38	-171.18	-373.86	-0.23
जून 2016 JUN'16	549.81	-158.47	-375.91	-0.27
जुलाई 2016 JUL'16	1020.49	-151.41	-367.92	-0.29
अगस्त 2016 AUG'16	1032.45	-161.34	-386.58	-0.29
सितंबर 2016 SEP'16	1005.75	-129.20	-379.94	-0.36
अक्टूबर 2016 OCT'16	929.97	-84.48	-397.32	-0.36
नवंबर 2016 NOV'16	426.78	-109.49	-348.31	-0.30
कुल Total	5370.68	-1162.55	-2991.27	-2.19

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

द्विपक्षीय एसटीओए BILATERAL SHORT TERM OPEN ACCESS

नवंबर 2016 Nov 16			April-Nov'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	226	1080	4855	17265
प.क्षे. WR	480	1174	6299	9523
द.क्षे. SR	450	872	2278	7601
पू.क्षे. ER	131	662	1574	7268
पूर्वोत्तर क्षे. NER	12	114	214	693
कुल TOTAL	1299	3902	15220	42352

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
सितंबर 2016 Sep'16	2944	3652	2466	6301
अक्टूबर 2016 Oct'16	2908	3640	2593	4371
नवंबर 2016 Nov'16	2837	3398	1299	3902
कुल TOTAL	23539	27330	15213	42349

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
31.10.16 to 06.11.16	37.85	25.66	23.21	30.38	27.53
07.11.16 to 13.11.16	37.32	27.34	16.48	28.41	23.94
14.11.16 to 20.11.16	29.38	22.54	17.66	27.37	23.27
21.11.16 to 27.11.16	36.66	32.33	21.36	29.11	13.76

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 नवम्बर 2016

EXCHANGES THROUGH POWER EXCHANGES - November 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	24.57	18.28
2	हरियाणा Haryana		115.67	241.44
3	राजस्थान Rajasthan		20.91	455.07
4	दिल्ली Delhi		59.91	85.92
5	उत्तर प्रदेश Uttar Pradesh		40.98	250.99
6	उत्तराखण्ड Uttarakhand		2.41	219.51
7	हिमाचल प्रदेश Himachal Pradesh		161.29	33.68
8	जम्मू और कश्मीर J & K		8.98	63.75
9	केंद्र शासित चंडीगढ़ UT Chandigarh		1.24	8.62
10	ए डी हाइड्रो AD Hydro		27.80	0.00
11	करचम वांगतू KW		134.00	0.00
12	श्री सीमेंट Shree Cement		13.86	0.00
13	नाथपा झाकरी Nathpa Jhakri		11.03	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)		0.00	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		1.89	0.00
24	चमेरा-3 chamera 3		0.00	0.00
25	अदानी एचवीडीसी ADANI HVDC(NORGU0)		0.00	0.00
26	मलाना MALANA		2.61	0.00
27	उरी-II Uri-II HEP(UR2)		0.00	0.00
28	पार्वती-III Parbati-II		0.00	0.00
29	सिंगरौली Singrauli		0.24	0.00
30	दादरी-I Dadri stage-I		0.28	0.00
31	दादरी-II Dadri stage-II		1.85	0.00
32	ऊंचाहार-I Unchahar-I TPS		0.11	0.00
33	ऊंचाहार-II Unchahar-II TPS		0.25	0.00
34	ऊंचाहार-III Unchahar-III TPS		0.08	0.00
35	रिहंद-I Rihand STPS-I		0.28	0.00
36	रिहंद-II Rihand STPS-II		0.59	0.00
37	रिहंद-III Rihand STPS-III		0.09	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 नवम्बर 2016
EXCHANGES THROUGH POWER EXCHANGES - November 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	471.56	38.24
39	महाराष्ट्र Maharashtra		103.05	30.83
40	गुजरात Gujarat		37.19	462.08
41	छत्तीसगढ़ Chattisgarh		35.15	0.44
42	गोवा Goa		8.40	12.61
43	दमन और दीव Daman and Diu		0.00	42.38
44	दादरा और नगर हवेली Dadra & Nagar Haveli		0.00	243.37
45	जिंदल JD		186.26	0.00
46	लांको अमरकंटक LANCO AMK		0.00	0.00
47	आयन कोल ACB India Limited		24.00	0.00
48	जिंदल स्टील एंड पावर Jindal Steel and Power Ltd		29.96	0.00
49	बालको -2 Balco-II		6.05	0.00
50	स्टरलाइट Sterlite(w3rse0)		0.00	0.00
51	एमको EMCO		14.29	0.00
52	वन्दना विद्युत VANDANA VIDYUT		0.00	0.00
53	एस्सार पावर ESSAR POWER		0.45	0.00
54	एस्सार स्टील ESSAR STEEL		0.00	58.33
55	के एस के महानदी KSK Mahanadi		0.00	0.00
56	जिंदल स्टेज -II Jindal Stg-II		1.40	0.00
57	कोरबा (प.) Korba(W) Comp. Ltd.		19.25	0.00
58	डी बी पावर D B Power		115.77	0.00
59	धारीवाल Dhariwal		25.65	0.00
60	जे पी निगी Jaypee Nigire		91.30	0.00
61	जी एम आर छत्तीसगढ़ GMR Chhattisgarh		0.00	0.00
62	डी जीईएन मेगा पावर DGEN Mega Power		0.00	0.00
63	एम बी मेगा पावर MB Power		6.72	0.00
64	एपीएल मुद्रा स्टेज-I APL Mundra Stg-I		26.90	0.00
65	एपीएल मुद्रा स्टेज-II APL Mundra Stg-II		90.72	0.00
66	एपीएल मुद्रा स्टेज-III APL Mundra Stg-III		157.06	0.00
67	टोरेंट सुगेन Torrent Sugan		0.00	0.00
68	मारुति कोल Maruti Coal		65.26	0.00
69	स्पेक्ट्रम Spectrum		12.94	0.00
70	झाबुआ पावर Jhabua Power		0.00	0.00
71	विंध्याचल-I Vindhyachal Stg-I		0.00	0.00
72	विंध्याचल-II Vindhyachal Stg-II		0.00	0.00
73	विंध्याचल-III Vindhyachal Stg-III		0.00	0.00
74	विंध्याचल-IV Vindhyachal Stg-IV		0.00	0.00
75	विंध्याचल-V Vindhyachal Stg-V		0.00	0.00
76	मौदा-I Mouda STPS Stg-I		0.00	0.00
77	सीपत-I Sipat Stg-I		2.28	0.00
78	सीपत-II Sipat Stg-II		2.45	0.00
79	सासन Sasan UMPP		0.00	0.00
80	एनएसपीसीएल NSPCL		13.27	0.00
81	कोरबा-III Korba-III		36.45	0.00
82	टीआरएन इनर्जी TRN Energy		133.03	0.00
83	गंधार Gandhar		13.13	0.00
84	कोरबा I & II Korba Stage I & II		1.34	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 नवम्बर 2016

EXCHANGES THROUGH POWER EXCHANGES - November 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
85	आंध्र प्रदेश Andhra Pradesh	दक्षिणी क्षेत्र SR	11.88	218.72
86	कर्नाटक Karnataka		101.64	299.21
87	केरल Kerala		3.83	102.00
88	तमिलनाडु Tamilnadu		17.32	18.64
89	पाण्डिचेरी Pondicherry		0.00	4.88
90	गोवा Goa		0.00	0.00
91	लांको कोंडापल्ली LANCO_KONDPLY		0.00	0.00
92	सिमापुरी SIMHAPURI		102.89	0.00
93	मीनाक्षी MINAXI		30.86	0.00
94	तेलंगाना TELANGANA		46.04	255.79
95	थर्मल पावर टेक Thermal Power Tech		21.13	0.00
96	कोस्टल इनरजेन Coastal Energen		2.29	0.00
97	आइ एल & एफ एस IL&FS		22.79	0.00
98	सिम्हाद्री-II Simhadri Stg-II		0.58	0.00
99	एनएलसी-I विस्तार NLC TPS-I (Exp)		6.22	0.00
100	एनएलसी-II स्टेज-I NLC TPS-II Stg-I	4.61	0.00	
101	एनएलसी-II स्टेज-II NLC TPS-II Stg-II	4.12	0.00	
102	लांको कोंडापल्ली स्टेज-III LANCO_KONDPLY STG III	0.21	0.00	
103	रामागुण्डम-I Ramagundam Stg-I	0.00	0.00	
104	तालचर-II Talcher Stg-II	0.00	0.00	
105	रामागुण्डम-III Ramagundam Stg-III	0.00	0.00	
106	पश्चिम बंगाल West Bengal	पूर्वी क्षेत्र ER	20.20	232.36
107	उड़ीशा Odisha		107.30	34.48
108	बिहार Bihar		0.00	147.77
109	झारखंड Jharkhand		0.00	0.00
110	सिक्किम Sikkim		43.41	0.00
111	दामोदर घाटी परियोजना DVC		29.23	6.28
112	स्टरलाइट STERLITE		0.00	0.00
113	मैथन पावर लिमिटेड Maithon P. Ltd		0.00	0.00
114	आधुनिक पा. लिमिटेड Adhunik P.Ltd		11.80	0.00
115	चूजाचेन Chuzachen HEP		57.00	0.00
116	रंगित Rangit HEP		0.00	0.00
117	तीस्ता Teesta HEP	0.00	0.00	
118	जीएमआर कमलंगा GMR Kamalanga	4.79	0.00	
119	जिंदल आई पी टी एल JIPL	352.23	0.00	
120	जोरथांग Jorethang	60.58	0.00	
121	फरक्का-III Farakka-III	3.50	0.00	
122	अरुणाचल प्रदेश Arunachal Pradesh	पूर्वोत्तर क्षेत्र NER	1.97	0.00
123	असम Assam		74.83	41.17
124	मणिपुर Manipur		30.36	0.00
125	मेघालय Meghalaya		0.00	9.21
126	मिज़ोरम Mizoram		15.44	0.00
127	नागालैंड Nagaland		4.23	1.85
128	त्रिपुरा Tripura		29.03	2.17
129	अगरतला जीटीपीपी Agartala GTPP_AGO		10.48	0.00
130	कोपिली KOPILI_KP1		10.58	0.00
131	असम जीबीपीपी Assam GBPP_KTO		15.00	0.00
132	लोकटक LOKTAK		0.00	0.00
133	रंगानदी Ranganadi		12.03	0.00
134	दोयांग Doyang		2.78	0.00
135	पलाताना Palatana		2.73	0.00
136	कोपिली-II Kopili-II		0.75	0.00
137	खंडोंग Khandong	1.25	0.00	
कुल Total			3640.06	3640.06

16. RENEWABLE ENERGY CERTIFICATE MECHANISM**MONTH:-November 2016****RE Source & Unit wise break up (01.11.2016-30.11.2016)**

Sr.No	Source Wise	Accreditation		Registration	
		Capacity (MW)	Unit	Capacity (MW)	Unit
1	Wind	77.6	19	90.95	10
2	Urban or Municipal Waste	0	0	0	0
3	Solar Thermal	1	1	0	0
4	Solar PV	6.6	6	1	1
5	Small Hydro	4.5	1	0	0
6	Others	0	0	0	0
7	Geothermal	0	0	0	0
8	Biomass	35	4	0	0
9	Bio-fuel cogeneration	18.69	3	0	0
	Total	143.39	34	91.95	11

RECs Issued (01.11.2016-30.11.2016)

Sr.No.	Non Solar	Solar	Total
1	1034856	282067	1316923

Redemption of REC (01.11.2016-30.11.2016)

Sr.No.	Non Solar	Solar	Total
1	289131	41920	331051

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

Sr.No	Source Wise	Accreditation		Registration	
		Capacity (MW)	Unit	Capacity (MW)	Unit
1	Wind	614.28	110	450.68	48
2	Urban or Municipal Waste	0	0	0	0
3	Solar Thermal	1	1	0	0
4	Solar PV	98.53	46	93.72	40
5	Small Hydro	40.5	6	33	8
6	Others	0	0	0	0
7	Geothermal	0	0	0	0
8	Biomass	144.5	13	71	6
9	Bio-fuel cogeneration	140.11	19	116.55	15
	Total	1039	195	764.95	117

RECs Issued (Apr-Nov 16)

Sr.No.	Non Solar	Solar	Total
1	3211970	920081	4132051

Redemption of REC (Apr-Nov 16)

Sr.No.	Non Solar	Solar	Total
1	2183994	294144	2478138

16. RENEWABLE ENERGY CERTIFICATE MECHANISM

MONTH:-November 2016

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

Sr.No	Source Wise	Accreditation		Registration	
		Capacity (MW)	Unit	Capacity (MW)	Unit
1	Wind	2489.71	618	2225.02	571
2	Urban or Municipal Waste	8	1	0	0
3	Solar Thermal	4	2	0	0
4	Solar PV	730.51	362	712.41	345
5	Small Hydro	302.19	38	237.19	30
6	Others	0	0	1.67	1
7	Geothermal	0	0	0	0
8	Biomass	700.92	75	674.85	73
9	Bio-fuel cogeneration	1075.2	124	751.3	96
	Total	5310.53	1220	4602.44	1116

RECs Issued since Inception to Nov 16

Sr.No.	Non Solar	Solar	Total
1	30568159	5139315	35707474

Redemption of REC since Inception to Nov 16

Sr.No.	Non Solar	Solar	Total
1	16258997	1202596	17461593

REC Closing balance as on 30.11.2016

Sr.No.	Non Solar	Solar	Total
1	14309162	3936719	18245881

17. Major Grid events for November 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	NR	1)400kV Koldam(NTPC)-Parbati Pool(PG) 2)400kV Koldam(NTPC)-Nalagarh(PG) ckt-1 3)400kV Parbati pool(PG) - Parbati(3)(NHPC) bypassing Parbati(2)	POWERGRID/ NTPC/PKTCL	01-11-2016	00:11	01-11-2016	04:35	04:24	400kV Koldam(NTPC)-Parbati Pool(PG), 400kV Koldam(NTPC)-Nalagarh(PG) ckt-1 and 400kV Parbati pool(PG) - Parbati(3)(NHPC) bypassing Parbati(2) tripped on over voltage.			GI-II
2	ER	Gopalgunj & Darbhanga	BSPTCL	01-11-2016	10:58	01-11-2016	11:28	00:30	220 kV MTPS Darbhanga & 220 kV MTPS Gopalgunj were hand tripped due to fire hazards at MTPS s/s. 220 kV MTPS - MZF D/C survived along with running units and local load	320		GD-I
3	WR	Pune	Maharashtra	03-11-2016	10:29	03-11-2016	11:59	01:30	Tripping of 1. 400kV s/w L/R of Pune-Pune GIS-IV at Pune(Talegaon) 2. 400kV Pune(Talegaon)-Pune GIS-IV 3. 400 KV Pune(Talegaon) Bus-I Heavy sparking in Isolator of L/R and Bus Bar protection operated			GI-2
4	SR	Tripping of 400 kV NTPL - TTRNPS-1, 400 kV NTPL - TTRNPS-2 and unit#1 of NTPL	NTPL	04-11-2016	15:37	04-11-2016	15:50	00:13	R ph-ground fault occurred in 400kV NTPL- Tuticorin PS line #2 due to failure of Lightening Arrester (LA) at NTPL end. Meanwhile 400kV NTPL- Tuticorin PS line #1 tripped at Tuticorin PS end due to operation of zone 2 distance protection but line was holding at NTPL end. NTPL U#1(500MW) got tripped due to loss of evacuating lines.	350		GI-2
5	NR	1)400kV Sarnath-Varanasi 2)400kV Anpara-Sarnath 2 3)400/220kV Sarnath 315 MVA ICT 1 4)400/220kV Sarnath 315 MVA ICT 2	UP	05-11-2016	12:01	05-11-2016	13:11	01:10	During opening of 400kV Sarnath-Varanasi line busbar protection of bus-II operated. This resulted in tripping of 400kV Anpara-Sarnath 2, 400/220kV Sarnath 315 MVA ICT 1 & 2.		140	GD-I
6	NER	132 kV Dimapur (PG) - Kohima	POWERGRID & DoP Nagaland	05-11-2016	18:45	05-11-2016	19:52	01:07	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 18:45 Hrs on 05th November 2016, 132 kV Dimapur(PG)-Kohima line tripped. Due to tripping of this element, Capital area was separated from rest of NER Grid and subsequently collapsed due to no source in this area/due to load generation mismatch.	16	33	GD-I
7	NER	132 kV Dimapur (PG) - Dimapur (Nagaland) I	DoP Nagaland	05-11-2016	18:45	05-11-2016	22:06	03:21	Dimapur area of Nagaland was connected with rest of NER Grid through 132 kV Dimapur (PG)-Dimapur (NA) I line. At 18:45 Hr on 5th November 2016, 132 kV Dimapur (PG)- Dimapur (NA) I line tripped (Dimapur (PG)-Dimapur (NA) II line kept open for system requirement). Due to tripping of these elements, Dimapur area was separated from rest of NER Grid and subsequently collapsed due to no source in this area	0	59	GD-I
8	WR	Korba West	Chhattisgarh	07-11-2016	04:09	07-11-2016	06:59	02:50	Tripping of 1. 400kV Korba(W)-Raita-I 2. 400 kV Bus-II 3. 210 MW U#3 4. 210 MW U#4 Due to Bus Bar protection operated.	400		GI-2

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				
9	NER	132 kV Dimapur (PG) - Kohima	POWERGRID & DoP Nagaland	08-11-2016	12:53	08-11-2016	13:01	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 12:53 Hrs on 08.11.16, 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	28	GD-I
10	SR	Tripping of 400/220 kV ICT-1, 2 and 3 @ Somanhalli	POWERGRID	08-11-2016	16:11	08-11-2016	16:56	00:45	220kV Bus bar protection operated during a fault in 220kV Somanahalli Mallur line at 220kV Somanahalli substation. This resulted in the tripping of 400/220kV Somanahalli ICT-1, 2 and 3 and all the lines connected to the South bus.		700	GI-1
11	SR	Tripping of VTPS Units- 2, 3 and 6	AP	08-11-2016	18:31	08-11-2016	19:21	00:50	LBB maloperation of bus-2 resulted in the tripping of units- 2, 3, 6 and all the lines connected to bus-2 at 220kV VTPS	480		GI-1
12	WR	Kharadpara	DNH	09-11-2016	10:41	09-11-2016	12:00	01:19	Tripping of 1. 220 KV Vapi- Kharadpara- I 2. 220 KV Vapi- Kharadpara- II 3. 220 KV Kala-New Kharadpara- I 4. 220 KV Kala- New Kharadpara- II 5. 220 KV Kharadpara- New Kharadpara- I 6. 220 KV Kharadpara- New Kharadpara- II 7. 220/66 KV ICT- I, II, III & IV at Kharadpara Bus bar- I protection operated at Kharadpara		430	GD-1
13	NR	1)400kV Bus-1 & 2 at Dadri Thermal 2)HVDC Rihand Dadri Pole 1 (Pole II already under S/D) 3)Dadri Thermal 1: one unit generating 210 MW 4) Dadri Thermal 2: 2 units generating 850 MW 5)Dadri Gas –(2GT+1ST) generating around 400 MW 6)400kV Dadri-Malerkotla ckt 7)400kV Dadri-Mandaula ckt-1 & 2 8) 400kV Dadri-Panipat ckt-2 9)Dadri-G Noida ckt 10)Dadri-Harsh Vihar ckt-1 11)400/220kV Dadri-ICT-1 12)400/220kV Dadri-ICT-2 13)400/220kV Dadri-ICT-3	NTPC/POWER GRID/DTL/UP	10-11-2016	10:49	10-11-2016	11:40	00:55	At 10.49 Hrs, during shutdown of 400kV Bus-A at AC side of HVDC Dadri station, another bus inadvertently tripped due to wrong switching operation. It resulted into Bus fault for Bus-B and all the main CBs connected to Bus-B also tripped. Both 400kV AC buses of HVDC Dadri tripped. Case-2 of Rihand-Dadri SPS operated and shed the load group C&D.	1460	220 (on account of SPS operation)	GD-I
14	WR	Gandhar	NTPC	10-11-2016	11:00	10-11-2016	11:46	00:46	Tripping of 1. 400 kV Gandhar-Sugen-I 2. 400 kV Bus-II at Gandhar due to Bus Bar Protection			GI-1
15	NR	1)220kV Meerut(PG)-Modipuram(UP) 1 2)220kV Meerut(PG)-Modipuram(UP) 2	POWERGRID/ UP	11-11-2016	09:11	11-11-2016	11:47	02:36	220kV Meerut(PG)-Modipuram(UP) 1 & 2 tripped reportedly on B-phase to earth fault.			GI-II
16	NR	1)400kV Bahadurgarh(PG)-Bawana(DTL) 2)400kV Bahadurgarh(PG)-Bawana(GT)	DTL/POWER RID	11-11-2016	14:16	11-11-2016	15:01	00:45	400kV Bahadurgarh(PG)-Bawana(DTL) tripped due to wavetrap problem and 400kV Bahadurgarh(PG)-Bawana(GT) tripped along with this.			GI-II
17	NR	1)400/220kV Nuhiyawali 315 MVA ICT 1 2)400/220kV Nuhiyawali 315 MVA ICT 2	Haryana	11-11-2016	20:46	11-11-2016	22:22	01:36	400/220kV Nuhiyawali 315 MVA ICT 1 & 2 tripped on overvoltage.			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				
18	SR	Tripping of VTPS Units- 1 to 6	AP	12-11-2016	10:26	12-11-2016	14:03	03:37	Maloperation of LBB relay of bus coupler resulted in the tripping of bus 1 and bus 2 at 220kV VTPS. Hence all 220kV connected VTPS U#1, 2, 3, 4, 5, 6 and other elements got tripped	950		GI-1
19	WR	Pophali	Maharashtra	12-11-2016	17:05	12-11-2016	17:30	00:25	Tripping of 1. 220 kV Pophali - Pedambe II 2. 220 kV Pophali - New Koyna 3. 220 kV Bus Section II @ Pophali 4. 220 kV Pophali - Nerale Bus Fault occurred on 220 kV Pophali Bus section 2			GI-2
20	SR	Tripping at 220kV Vizag switching station	POWERGRID	14-11-2016	09:32	14-11-2016	09:45	00:13	220kV Bus bar protection got operated at 220 kV VSS due to the failure of Y-pole breaker limb of 220kV Gajuwaka feeder.			GI-1
21	SR	Complete outage of 220kV Brahmapuram substation.	KSEB	15-11-2016	00:31	15-11-2016	02:36	02:05	220kV Cochin Kalamassery line#1 and 220kV Cochin Brahmapuram line #1 tripped due to distance protection operation at both the ends. Meanwhile bus bar protection acted at 220kV Brahmapuram substation tripping all the connected elements of bus 1 and bus 2.		160	GD-1
22	SR	Complete outage of 400kV NLC1EXP Station	NLC	16-11-2016	02:13	16-11-2016	04:05	01:52	Due to R-phase CT blast at bus coupler between Main bus-1 and 2, bus bar protection acted at 400kV NLC1EXP end, tripping all the elements connected to bus-1 and bus-2 including, NLC1EXPU#1 and NLC1EXPU#2	395		GD-1
23	WR	Sagar	MP	18-11-2016	06:18	18-11-2016	06:30	00:12	Tripping of 1. 220 kV Sagar-Damoh(PG) 2. 220 kV Sagar-Bina-2 3. 220/132 kV ICT-2 4. 132 kV Sagar-Traction Bus Bar protection operation at 220 kV Sagar			GI-2
24	WR	Omkareshwar	MP	19-11-2016	01:20	19-11-2016	02:20	01:00	Tripping of 1. 220 kV Omkeshwar-Burwha 2. 220 kV Omkeshwar-Julwania 3. 220 kV Omkeshwar-Khandwa Bus Bar protection operation at 220 kV Omkeshwar			GI-2
25	NR	1)400kV Maharaniabagh-Ballabgarh 2)400kV Maharaniabagh-Dadri TH	DTL/POWERGRID	20-11-2016	03:03	20-11-2016	04:52	01:49	400kV Maharaniabagh-Ballabgarh and 400kV Maharaniabagh-Dadri TH tripped on overvoltage.			GD-I
26	ER	Bokaro	DVC	20-11-2016	07:50	20-11-2016	08:50	01:00	220 kV Ramgarh D/C, 220 kV CTPS D/C, 220 kV Jamshedpur D/C and Bokaro unit #1 tripped Y-phase breaker burst of 220 kv Bokaro B-Ramgarh-II at Bokaro end	150	180	GD-I
27	SR	Tripping of HVDC BHADRAVATHI POLE 2	POWERGRID	21-11-2016	01:14	21-11-2016	02:16	01:02	Pole #2 tripped due to problem in valve control card.			GI-2
28	NR	1)400kV Maharaniabagh-Ballabgarh 2)220kV Maharaniabagh-Lodhi Road ckt-1 3)220kV Maharaniabagh-Truma centre ckt-2	DTL/POWERGRID	21-11-2016	01:17	21-11-2016	05:47	04:30	400kV Maharaniabagh-Ballabgarh tripped on overvoltage at 01:17hrs. 220kV Maharaniabagh-Lodhi Road ckt-1 and 220kV Maharaniabagh-Truma centre ckt-2 tripped along with this.		130	GD-I
29	NR	1)400kV Dehar(BBMB)-Rajpura(PSTCL) 2)400kV Bhiwani(BBMB)-Rajpura(PSTCL) 3)400kV Rajpura(PSTCL)-Rajpura TPS(PSEB) 4) Dehar HEP(BBMB) unit #4	Punjab/BBMB	21-11-2016	21:17	21-11-2016	21:45	00:28	On bus-bar operation at Rajpura(PSTCL), 400kV Dehar(BBMB)-Rajpura(PSTCL), 400kV Bhiwani(BBMB)-Rajpura(PSTCL), 400kV Rajpura(PSTCL)-Rajpura TPS(PSEB) along with unit #4 at Dehar HEP(BBMB) tripped.	165		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				
30	WR	Shujalpur	MP	22-11-2016	12:13	22-11-2016	12:34	00:21	Tripping of 1. 220 kV Shujalpur-Shujalpur(PG) 2. 220/132 kV ICT-1, 2 & 3 Bus-1 tripped on LBB while charging 220kV Suajalpur-Bhopal (MP) line		278	GD-1
31	NER	132 kV Balipara - Khupi	NEEPCO	22-11-2016	14:21	22-11-2016	19:06	04:45	Khupi area of Arunachal Pradesh was connected with rest of NER Grid through 132 kV Balipara- Khupi line. At 14:21 Hr on 22.11.16, 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	13	GD-I
32	WR	Talegoan	Maharashtra	24-11-2016	18:52	24-11-2016	19:57	01:05	Tripping of 1. 220 kV Talegoan-Pune (PG-I) 2. 220 kV Talegoan-Pune (PG-II) 3. 220 kV Talegoan-Urse-I 4. 220 kV Talegoan-Urse-II Bus Bar protection operation at 220 kV Talegoan			GI-2
33	NR	1)400kV Kanpur(765)-Kanpur ckt-1 2)All elements connected at 765/400kV Kanpur(PG)	Punjab	25-11-2016	16:57	25-11-2016	17:49	00:52	LA of 400kV Kanpur(765)-Kanpur ckt-1 at Kanpur(765) end blasted resulting complete outage of whole 765/400kV Kanpur(PG) station. 400kV Kanpur(765)-Kanpur ckt-2 was under S/D.			GI-II
34	SR	Tripping of running units at Neyveli complex (NLC TS-2 stage-1, NLC TS-1 and STCMS), 400/230kV ICT-1&2 at Trichy (PG) substation and 400/230kV ICT-1&2 at NLC TS-2. Loss of supply to 230kV Trichy, Samayapuram, Cuddalore, Vilupuram, eechangadu, Perambalur, Alandur, Thanjavur, Thiruvavarur, Kadalangudi, Thiruvannamalai and N.P.Kudi substation	NLC, PG	25-11-2016	17:22	25-11-2016	18:30	01:08	Running units at Neyveli complex (NLC TS-2 stage-1, NLC TS-1 and STCMS) got tripped. 400/230kV ICT#1 and #2 at Trichy and NLC TS-2 got tripped due to operation of overcurrent protection. Also Bus fault had occurred at 230kV Alandur substation due to snapping of conductor in 230kV Pudukottai feeder resulting in de-energization of all 230kV elements connected to 230kV Bus-A. Loads in 230kV Trichy, Samayapuram, Cuddalore, Vilupuram, eechangadu, Perambalur, Alandur, Thanjavur, Thiruvavarur, Kadalangudi, Thiruvannamalai and N.P.Kudi substation got affected during the incident	800	1500	GD-1
35	NER	400 kV Ranganadi-Biswanath Charali 1	POWERGRID	27-11-2016	06:44	27-11-2016	06:57	00:13	Ziro area, Lekhi area & Capital area of Arunachal Pradesh & Gohpur Area of Assam were connected with rest of NER Grid through 400 kV Ranganadi-Biswanath Charali Line I & II (400 kV Ranganadi-Biswanath Charali Line II Hand Tripped due to Overvoltage, Bus Coupler CB of Gohpur kept open for system requirement). At 06:44 Hr on 27.11.16, 132 kV Ranganadi-Biswanath Charali Line I tripped. Due to tripping of this element, Ziro area, Lekhi area & Capital area of Arunachal Pradesh & Gohpur Area of Assam were separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	39	GD-I
36	NR	1)400kV Heerapura-Merta 2)400kV Heerapura(RVPNL)-Phagi(RVPNL) ckt-1	Rajasthan	27-11-2016	10:32	27-11-2016	11:01	00:29	400kV Heerapura-Merta and 400kV Heerapura(RVPNL)-Phagi(RVPNL) ckt-1 tripped reportedly on phase to earth fault.			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				
37	NER	400 kV Ranganadi-Biswanath Charali 1	POWERGRID	27-11-2016	11:41	27-11-2016	11:48	00:07	Ziro area, Lekhi area & Capital area of Arunachal Pradesh & Gohpur Area of Assam were connected with rest of NER Grid through 400 kV Ranganadi-Biswanath Charali Line I & II (132 kV Ranganadi-Lekhi Line and 132 kV Ranganadi-Ziro Line Tripped at 11:41 hrs, 400 kV Ranganadi-Biswanath Charali Line II Hand Tripped due to Overvoltage, Bus Coupler CB of Gohpur kept open for system requirement). At 11:41 Hr on 27.11.16, 132 kV Ranganadi-Biswanath Charali Line I tripped. Due to tripping of this element, Ziro area, Lekhi area & Capital area of Arunachal Pradesh & Gohpur Area of Assam were separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	37	GD-I
38	NR	1)400/220kV Hissar 315MVA ICT #1 2)400/220kV Hissar 315MVA ICT #3 3)220kV Hisar(PG)-Hisar-IA(HVPLN) ckt-1 4)220kV Hisar(PG)-Hisar-IA(HVPLN) ckt-2 5)220kV Hisar(PG)-Isharwal(HVPLN) ckt-2	POWERGRID/ Haryana	28-11-2016	10:43	28-11-2016	12:16	01:33	400/220kV Hissar 315MVA ICT #1 & 3, 220kV Hisar(PG)-Hisar-IA(HVPLN) ckt-1 & 2 and 220kV Hisar(PG)-Isharwal(HVPLN) 2 tripped. Busbar protection operation is reported.			GI-II
39	NR	1)400kV Bareilly-Unnao ckt-1 2)400kV Bareilly-Unnao ckt-2	UP	29-11-2016	01:08	29-11-2016	13:34	12:26	400kV Bareilly-Unnao ckt-1 tripped on overvoltage and Bareilly-Unnao ckt-2 tripped on phase to earth fault.			GI-II
40	NR	1)400kV Alaknanda HEP(UP)-Srinagar(UTT) ckt-1 2)400kV Alaknanda HEP(UP)-Srinagar(UTT) ckt-2	UP/Uttarakhand	29-11-2016	02:10	29-11-2016	04:56	02:46	400kV Alaknanda HEP(UP)-Srinagar(UTT) ckt-1 & 2 tripped reportedly on phase to earth fault.			GI-II
41	NR	1)400kV Muradnagar-Muzaffarnagar 2)400kV Alaknanda HEP - Muzaffarnagar ckt-2	UP	29-11-2016	03:37	29-11-2016	04:03	00:26	400kV Muradnagar-Muzaffarnagar and 400kV Alaknanda HEP - Muzaffarnagar ckt-2 tripped reportedly on phase to earth fault.			GI-II
42	NER	132 kV Loktak - Ningthoukhong	POWERGRID	29-11-2016	13:21	29-11-2016	13:47	00:26	Ningthoukhong area of Manipur was connected with rest of NER Grid through 132 kV Loktak-Ningthoukhong line (132 kV Imphal(PG)-Ningthoukhong (1721 Hrs of 12.11.16) and 132 kV Kakching-Kongba line kept open for system constraint). At 1321 Hr on 29.11.16, 132 kV Loktak-Ningthoukhong line tripped. Due to tripping of this element, Ningthoukhong area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	26	GD-I
43	NR	1)500kV HVDC Balia-Bhiwadi pole-1 2)500kV HVDC Balia-Bhiwadi pole-2	POWERGRID	30-11-2016	00:18	30-11-2016	00:34	00:16	500kV HVDC Balia-Bhiwadi Bipole tripped on transient fault due to non availability of 66 KV earth electrode line at Bhiwadi end.			GI-II
44	NR	1)765/400kV Fatehabad 765(UP) 1500 MVA ICT 1 2)765kV Fatehabad 765(UP)-Lalitpur TPS(LPGCL) 1	UP/LPGCL	30-11-2016	00:59	30-11-2016	01:34	00:35	765/400kV Fatehabad 765(UP) 1500 MVA ICT 1 and 765kV Fatehabad 765(UP)-Lalitpur TPS(LPGCL) 1 tripped.			GI-II
45	NR	1)220kV Badarpur(NTPC)-Ballabgarh(BBMB) 2 2)220kV Badarpur(NTPC)-Noida sec 20s(UP) 3)220kV Badarpur(NTPC)-Sarita vihar(DTL) 2 4)220kV BTPS(NTPC)-MIA Alwar(RPVNL) 5)220kV Badarpur(NTPC)-Mahrauli(DTL) 2 6)220kV Badarpur(NTPC)-Okhla(DTL) 2	NTPC/DTL	30-11-2016	03:14	30-11-2016	04:14	01:00	220kV Badarpur(NTPC)-Ballabgarh(BBMB) 2, 220kV Badarpur(NTPC)-Noida sec 20s(UP), 220kV Badarpur(NTPC)-Sarita vihar(DTL) 2, 220kV BTPS(NTPC)-MIA Alwar(RPVNL), 220kV Badarpur(NTPC)-Mahrauli(DTL) 2 and 220kV Badarpur(NTPC)-Okhla(DTL) 2 tripped.		150	GD-I
46	NR	1)400/220kV 240MVA Muradnagar ICT #1 2)400/220kV 240MVA Muradnagar ICT #2	UP	30-11-2016	03:50	30-11-2016	10:24	06:34	400/220kV 240MVA Muradnagar ICT #1 & 2 tripped.		50	GD-I

18. NEW ELEMENTS COMMISSIONED IN NOVEMBER-2016								
COMMISSIONING OF NEW GENERATING UNITS								
REGION	SL. NO.	CONSTITUENT	UNIT NAME	UNIT NO	CAPACITY (MW)	DATE	TIME	
COMMISSIONING OF NEW ICTs								
REGION	SL. NO.	CONSTITUENT	VOLTAGE LEVEL	SUB-STATION	ICT NO	CAPACITY	DATE	TIME
WR	1	POWERGRID	400/220	Damoh	III	500	16.11.16	
	2	MAHATRANSCO	400/220	Babhaleshwar	IV	500	27.11.16	
COMMISSIONING OF NEW TRANSMISSION LINES								
REGION	SL. NO.	CONSTITUENT	LINE NAME	CKT NO	kV	DATE	TIME (Hrs)	
Inter-Regional	1	Sterlite	RAPP C - Shujalpur	I	400	11.11.16		
	2		RAPP C - Shujalpur	II	400	15.11.16		
	3	POWERGRID	LILo of Birpara-Salakati at Alipurduar	I	220	19.11.16		
	4		LILo of Birpara-Salakati at Alipurduar	II	220	19.11.16		
SR	5	POWERGRID	Dharpuri-Tuticorin	I	765 (charged at 400)	11.11.16		
	6		Dharpuri-Tuticorin	II	765 (charged at 400)	11.11.16		
	7	APTRANSCO	Urvukonda-Velloor	II	400	18.11.16		
ER	8	POWERGRID	Jamshedpur-Chaibasa (LILo of Jamshedpur-Rourkela II)	II	400	19.11.16		
	9		Chaibasa-Rourkela (LILo of Jamshedpur-Rourkela II)	II	400	20.11.16		
	10		Kharagpur-Chaibasa	I	400	12.11.16		

विद्युत विभव रूपरेखा माह – नवंबर 2016

VOLTAGE PROFILE - NOVEMBER 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%	801	762	776
2		गया GAYA	0%	100%	0%	0%	790	753	775
3		झारसुगडा JHARSUGUDA	0%	100%	0%	0%	799	767	783
4		रांची RANCHI	0%	100%	0%	0%	792	761	778
5		सासाराम SASARAM	0%	100%	0%	0%	789	725	757
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	799	745	774
2		अनपरा सी ANPARA-C	1%	99%	0%	1%	784	712	765
3		बलिया BALLIA	0%	100%	0%	0%	796	756	777
4		भिवानी BHIWANI	0%	74%	26%	26%	814	757	791
5		बरेली BAREILLY	0%	100%	0%	0%	760	735	759
6		फतेहपुर FATEHPUR	0%	100%	0%	0%	784	731	761
7		झाटिकरा JHATIKARA	0%	84%	16%	16%	811	754	787
8		लखनऊ LUCKNOW	0%	95%	5%	5%	808	741	786
9		मेरठ MEERUT	0%	93%	7%	7%	816	753	785
10		मोगा MOGA	0%	84%	16%	16%	809	743	787
11		फागी PHAGI	0%	99%	1%	1%	803	741	782
12		उन्नाव UNNAO	0%	100%	0%	0%	801	734	758
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	793	742	769
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	804	738	778
3		भोपाल (बीडीटीसीएन) BHOPAL (BDTCL)	0%	100%	0%	0%	788	734	768
4		बिलासपुर BILASPUR	0%	100%	0%	0%	777	749	764
5		बीना BINA	0%	100%	0%	0%	792	749	773
6		चांपा CHAMPA	0%	96%	4%	4%	806	776	793
7		धर्मजयगढ़ DHARAMJAIGARH	0%	100%	0%	0%	792	754	773
8		धुले (बीडीटीसीएन) DHULE (BDTCL)	0%	100%	0%	0%	798	738	775
9		ग्वालियर GWALIOR	0%	100%	0%	0%	797	750	777
10		इंदौर INDORE	0%	100%	0%	0%	793	737	772
11		जबलपुर JABALPUR	0%	100%	0%	0%	797	752	775
12		कोरडी KORADI	0%	100%	0%	0%	775	740	759
13		पुणे PUNE	0%	100%	0%	0%	800	731	771
14		रायगढ़ पुलिंग RAIGARH POOLING	0%	100%	0%	0%	802	774	788
15		रायपुर पुलिंग RAIPUR POOLING	0%	100%	0%	0%	795	767	779
16		सासन SASAN	0%	100%	0%	0%	778	752	765
17		सतना SATNA	0%	100%	0%	0%	788	749	770
18		सिवनी SEONI	0%	100%	0%	0%	794	748	774
19		सीपत SIPAT	0%	100%	0%	0%	774	751	763
20		सोलापुर SOLAPUR	0%	98%	2%	2%	807	747	783
21		तामनार TAMNAR	0%	100%	0%	0%	802	775	789
22		तिरोडा TIRORA	0%	100%	0%	0%	770	743	758
23		वडोदरा VADODARA	0%	99%	1%	1%	805	751	780
24		विंध्याचल पुलिंग VINDHYACHAL PS	0%	100%	0%	0%	779	755	767
25		वर्धा WARDHA	0%	99%	1%	1%	806	750	782
1	दक्षिणी क्षेत्र SR	कर्नूल KURNOOL	0%	100%	0%	0%	800	753	782
2		नेल्लूर पुलिंग NELLORE PS	0%	100%	0%	0%	800	762	781
3		रायचूर RAICHUR	0%	100%	0%	0%	804	752	782
4		तिरुवलम THIRUVALEM	0%	80%	20%	20%	814	769	793
1	पूर्वोत्तर क्षेत्र NER	अज़ारा AZARA (400 kV)	0%	100%	0%	0%	414	399	409
2		बालिपारा BALIPARA (400 kV)	0%	90%	10%	10%	427	386	413
3		बोंगाईगाव BONGAIGAON (400 kV)	0%	100%	0%	0%	418	386	406
4		मिसा MISA (400 kV)	0%	65%	35%	35%	431	393	417
5		सिलचर SILCHAR (400 kV)	0%	99%	1%	1%	422	391	412

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

20. List of Tripping of Elements monitored by NLDC for the month of November 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	Remarks
HVDC - IR										
1	Pusauli	HVDC	ER/NR	TP	05-11-2016 04:51	SYSTEM FAIL ALARM	05-11-2016 06:57	2:06:00	1	
2	Pusauli	HVDC	ER/NR	SO	22-11-2016 12:12	CCP Main-2 major alarm	22-11-2016 13:35	1:23:00	1	
3	Pusauli	HVDC	ER/NR	TS	26-11-2016 09:36	CB of filter bank burst	27-11-2016 11:31	25:55:00	2	
4	Vindhyachal Pole-II	HVDC	WR/NR	SO	22-11-2016 11:44	Low oil level alarm in smoothing reactor	22-11-2016 19:50	8:06:00	0	
5	Vindhyachal Pole-II	HVDC	WR/NR	SO	23-11-2016 11:47	Low oil level alarm in smoothing reactor	23-11-2016 18:32	6:45:00	0	
6	Mundra-Mahendragarh-Pole-I	HVDC	WR/NR	SO	27-11-2016 08:25	AMP Works	30-11-2016 20:17	83:52:00	0	
7	Vindhyachal Pole-I	HVDC	WR/NR	TS	30-11-2016 06:01	Trip on DC over current protection operated.	30-11-2016 17:09	11:08:00	1	
8	Bhadrawati Pole-I	HVDC	WR/SR	TS	21-11-2016 01:14	VALVE CONTROL CARD PROBLEM	21-11-2016 02:22	1:08:00	1	
9	Biswanath Chariali-Agra Pole-II	HVDC	NER/NR	SE	02-11-2016 11:50	For replacement of damaged 02 nos. insulators of neutral bus Pole-2 at Agra end.	02-11-2016 18:07	6:17:00	0	
10	Biswanath Chariali-Agra Pole-II	HVDC	NER/NR	MO	10-11-2016 04:55	Opened manually due to High Voltage	12-11-2016 12:08	55:13:00	0	
11	Biswanath Chariali-Agra Pole-II	HVDC	NER/NR	TS	12-11-2016 17:12	Tripped on DC voltage protection at BNC end	13-11-2016 07:46	14:34:00	1	
12	Biswanath Chariali-Agra Pole-II	HVDC	NER/NR	SE	18-11-2016 11:55	Testing of Fibre communication DC CT at BNC end.	18-11-2016 18:12	6:17:00	1	
13	Biswanath Chariali-Agra Pole-I	HVDC	NER/NR	MO	25-11-2016 16:53	For reversing of power	25-11-2016 17:59	1:06:00	0	
14	Biswanath Chariali-Agra Pole-II	HVDC	NER/NR	MO	25-11-2016 17:09	For reversing of power	25-11-2016 17:15	0:06:00	1	
15	Biswanath Chariali-Agra Pole-II	HVDC	NER/NR	MO	25-11-2016 22:17	Opened manually due to High Voltage	29-11-2016 15:42	89:25:00	1	
HVDC - Internal										
16	Rihand-Dadri Pole-I	HVDC	NR	SO	06-11-2016 09:00	To attend leakage in water cooling valve hall at Dadri	06-11-2016 16:48	7:48:00	0	
17	Rihand-Dadri Pole-I	HVDC	NR	SO	07-11-2016 08:55	For replacement of light guide and HVDC line and terminal equipments AMP	13-11-2016 19:28	154:33:00	0	
18	Rihand-Dadri Pole-I	HVDC	NR	SO	14-11-2016 09:02	For replacement of light guide and HVDC line and terminal equipments AMP	18-11-2016 18:49	105:47:00	0	
19	Balia-Bhiwadi Pole-I	HVDC	NR	SE	26-11-2016 14:55	To attend oil leakage	27-11-2016 00:46	9:51:00	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	Remarks
20	Balia-Bhiwadi Pole-II	HVDC	NR	TL	30-11-2016 00:18	Tripped on transient fault	30-11-2016 16:32	16:14:00	1	
21	Balia-Bhiwadi Pole-I	HVDC	NR	TL	30-11-2016 00:18	Tripped on transient fault	30-11-2016 16:32	16:14:00	1	
765 kV - IR										
22	765 kV New Ranchi-Dharamjaygarh	Line	ER/WR	TV	07-11-2016 20:33	Tripped on Over Voltage	08-11-2016 13:53	17:20:00	1	
23	765 kV New Ranchi-Dharamjaygarh	Line	ER/WR	TV	23-11-2016 12:56	Tripped on Over Voltage	23-11-2016 14:38	1:42:00	2	
24	765 kV Gwalior-Phagi-II	Line	WR/NR	SO	24-11-2016 09:57	Insulator cleaning	24-11-2016 19:47	9:50:00	0	
25	765 kV Gwalior-Phagi-I	Line	WR/NR	SO	23-11-2016 08:50	Polymer insulator replacement	23-11-2016 18:56	10:06:00	0	
26	765 kV Gwalior-Agra-I	Line	WR/NR	TL	30-11-2016 01:09	Distance Protection operated	30-11-2016 01:45	0:36:00	1	
27	765 kV Gwalior-Agra-I	Line	WR/NR	TL	30-11-2016 02:00	Distance Protection operated	30-11-2016 17:15	15:15:00	2	
765 kV Internal										
28	765kV Phagi-Bhiwani-II	Line	NR	SO	24-11-2016 09:02	For RTV coating on Trench make bushings	24-11-2016 19:45	10:43:00	0	
29	765kV Moga-Bhiwani(PG)	Line	NR	TL	30-11-2016 06:42	Distance Protection operated	30-11-2016 18:42	12:00:00	1	
30	765kV Meerut-Bhiwani(PG)	Line	NR	MO	01-11-2016 00:00	Opened manually due to High Voltage	05-11-2016 12:06	108:06:00	0	
31	765kV Meerut-Bhiwani(PG)	Line	NR	MO	05-11-2016 22:08	Opened manually due to High Voltage	06-11-2016 10:47	12:39:00	0	
32	765kV Meerut-Bhiwani(PG)	Line	NR	MO	06-11-2016 16:28	Opened manually due to High Voltage	08-11-2016 09:32	41:04:00	0	
33	765kV Meerut-Bhiwani(PG)	Line	NR	MO	08-11-2016 20:32	Opened manually due to High Voltage	09-11-2016 09:36	13:04:00	0	
34	765kV Meerut-Bhiwani(PG)	Line	NR	MO	09-11-2016 20:53	Opened manually due to High Voltage	10-11-2016 06:48	9:55:00	0	
35	765kV Meerut-Bhiwani(PG)	Line	NR	MO	10-11-2016 20:56	Opened manually due to High Voltage	11-11-2016 06:24	9:28:00	0	
36	765kV Meerut-Bhiwani(PG)	Line	NR	MO	11-11-2016 21:29	Opened manually due to High Voltage	12-11-2016 09:02	11:33:00	0	
37	765kV Meerut-Bhiwani(PG)	Line	NR	MO	13-11-2016 20:53	Opened manually due to High Voltage	14-11-2016 09:36	12:43:00	0	
38	765kV Meerut-Bhiwani(PG)	Line	NR	MO	14-11-2016 15:18	Opened manually due to High Voltage	15-11-2016 00:00	8:42:00	0	
39	765kV Meerut-Bhiwani(PG)	Line	NR	MO	15-11-2016 20:39	Opened manually due to High Voltage	16-11-2016 08:15	11:36:00	0	

S. No.	Name of Transmission Element	Type of the element	Region Involved	Fault Type	Tripping Date and Time	Brief Reason/Relay Indication	Restoration Date and Time	Duration	Number of Cumulative tripping in the month	Remarks
40	765kV Meerut-Bhiwani(PG)	Line	NR	MO	16-11-2016 20:41	Opened manually due to High Voltage	17-11-2016 06:26	9:45:00	0	
41	765kV Meerut-Bhiwani(PG)	Line	NR	MO	17-11-2016 20:51	Opened manually due to High Voltage	18-11-2016 06:44	9:53:00	0	
42	765kV Meerut-Bhiwani(PG)	Line	NR	MO	18-11-2016 21:01	Opened manually due to High Voltage	19-11-2016 07:01	10:00:00	0	
43	765kV Meerut-Bhiwani(PG)	Line	NR	MO	19-11-2016 21:13	Opened manually due to High Voltage	21-11-2016 09:14	36:01:00	0	
44	765kV Meerut-Bhiwani(PG)	Line	NR	MO	22-11-2016 20:07	Opened manually due to High Voltage	23-11-2016 09:31	13:24:00	0	
45	765kV Meerut-Bhiwani(PG)	Line	NR	MO	23-11-2016 20:02	Opened manually due to High Voltage	24-11-2016 09:01	12:59:00	0	
46	765kV Meerut-Bhiwani(PG)	Line	NR	MO	24-11-2016 19:45	Opened manually due to High Voltage	25-11-2016 06:52	11:07:00	0	
47	765kV Meerut-Bhiwani(PG)	Line	NR	MO	25-11-2016 20:54	Opened manually due to High Voltage	26-11-2016 08:52	11:58:00	0	
48	765kV Meerut-Bhiwani(PG)	Line	NR	MO	26-11-2016 21:11	Opened manually due to High Voltage	27-11-2016 08:30	11:19:00	0	
49	765kV Meerut-Bhiwani(PG)	Line	NR	MO	27-11-2016 21:09	Opened manually due to High Voltage	28-11-2016 07:55	10:46:00	0	
50	765kV Meerut-Bhiwani(PG)	Line	NR	MO	29-11-2016 02:12	Opened manually due to High Voltage	29-11-2016 09:42	7:30:00	0	
51	765kV Kanpur-Varanasi-II	Line	NR	TS	25-11-2016 16:57	R-phase LA blast at 400 kanpur-Kanpur-I	25-11-2016 17:54	0:57:00	1	
52	765kV Kanpur-Varanasi-I	Line	NR	TS	25-11-2016 16:57	R-phase LA blast at 400 kanpur-Kanpur-I	25-11-2016 17:49	0:52:00	1	
53	765kV Kanpur-Varanasi-I	Line	NR	SO	28-11-2016 10:27	AMP Works	28-11-2016 19:16	8:49:00	1	
54	765kV Kanpur-Jhatikara	Line	NR	SO	18-11-2016 07:21	Jumper tightening	18-11-2016 19:11	11:50:00	0	
55	765kV Kanpur-Jhatikara	Line	NR	SO	19-11-2016 07:16	Jumper tightening	19-11-2016 18:54	11:38:00	0	
56	765kV Kanpur-Jhatikara	Line	NR	SO	20-11-2016 07:47	Jumper tightening	20-11-2016 18:10	10:23:00	0	
57	765kV Kanpur-Jhatikara	Line	NR	SO	21-11-2016 07:27	Jumper tightening	21-11-2016 20:44	13:17:00	0	
58	765kV Kanpur-Jhatikara	Line	NR	TS	25-11-2016 16:57	R-phase LA blast at 400 kanpur-Kanpur-I	25-11-2016 18:23	1:26:00	1	
59	765kV Fatehpur-Agra-II	Line	NR	MO	03-11-2016 20:48	Opened manually due to High Voltage	04-11-2016 09:28	12:40:00	0	
60	765kV Fatehpur-Agra-II	Line	NR	MO	12-11-2016 20:57	Opened manually due to High Voltage	13-11-2016 09:40	12:43:00	0	
61	765kV Fatehpur-Agra-II	Line	NR	MO	13-11-2016 21:14	Opened manually due to High Voltage	14-11-2016 09:26	12:12:00	0	

S. No.	Name of Transmission Element	Type of the element	Region Involved	Fault Type	Tripping Date and Time	Brief Reason/Relay Indication	Restoration Date and Time	Duration	Number of Cumulative tripping in the month	Remarks
62	765kV Fatehpur-Agra-II	Line	NR	MO	14-11-2016 20:33	Opened manually due to High Voltage	15-11-2016 07:03	10:30:00	0	
63	765kV Fatehpur-Agra-II	Line	NR	MO	15-11-2016 20:37	Opened manually due to High Voltage	16-11-2016 09:42	13:05:00	0	
64	765kV Fatehpur-Agra-II	Line	NR	MO	18-11-2016 20:59	Opened manually due to High Voltage	19-11-2016 07:33	10:34:00	0	
65	765kV Fatehpur-Agra-II	Line	NR	MO	19-11-2016 19:31	Opened manually due to High Voltage	20-11-2016 09:02	13:31:00	0	
66	765kV Fatehpur-Agra-II	Line	NR	MO	21-11-2016 20:10	Opened manually due to High Voltage	22-11-2016 08:06	11:56:00	0	
67	765kV Fatehpur-Agra-II	Line	NR	SC	22-11-2016 08:06	For stringing (Powerline crossing) of 400kV Fatehabad 765-Agra (South) D/C line	22-11-2016 19:02	10:56:00	0	
68	765kV Fatehpur-Agra-II	Line	NR	SE	23-11-2016 12:59	To attend hot spot	23-11-2016 19:19	6:20:00	0	
69	765kV Fatehpur-Agra-II	Line	NR	MO	24-11-2016 21:17	Opened manually due to High Voltage	25-11-2016 06:58	9:41:00	0	
70	765kV Fatehpur-Agra-II	Line	NR	MO	25-11-2016 21:27	Opened manually due to High Voltage	26-11-2016 06:24	8:57:00	0	
71	765kV Fatehpur-Agra-II	Line	NR	MO	26-11-2016 21:22	Opened manually due to High Voltage	27-11-2016 10:50	13:28:00	0	
72	765kV Fatehpur-Agra-II	Line	NR	MO	27-11-2016 21:16	Opened manually due to High Voltage	28-11-2016 08:07	10:51:00	0	
73	765kV Fatehpur-Agra-II	Line	NR	MO	28-11-2016 20:26	Opened manually due to High Voltage	29-11-2016 07:04	10:38:00	0	
74	765kV Fatehpur-Agra-II	Line	NR	MO	29-11-2016 20:33	Opened manually due to High Voltage	30-11-2016 05:39	9:06:00	0	
75	765kV Fatehpur-Agra-I	Line	NR	MO	01-11-2016 00:00	Opened manually due to High Voltage	01-11-2016 08:38	8:38:00	0	
76	765kV Fatehpur-Agra-I	Line	NR	MO	01-11-2016 21:23	Opened manually due to High Voltage	02-11-2016 10:11	12:48:00	0	
77	765kV Fatehpur-Agra-I	Line	NR	MO	02-11-2016 20:57	Opened manually due to High Voltage	03-11-2016 10:41	13:44:00	0	
78	765kV Fatehpur-Agra-I	Line	NR	MO	05-11-2016 01:54	Opened manually due to High Voltage	05-11-2016 12:22	10:28:00	0	
79	765kV Fatehpur-Agra-I	Line	NR	MO	05-11-2016 22:06	Opened manually due to High Voltage	06-11-2016 10:57	12:51:00	0	
80	765kV Fatehpur-Agra-I	Line	NR	MO	06-11-2016 22:01	Opened manually due to High Voltage	07-11-2016 09:29	11:28:00	0	
81	765kV Fatehpur-Agra-I	Line	NR	MO	07-11-2016 20:57	Opened manually due to High Voltage	08-11-2016 08:05	11:08:00	0	
82	765kV Fatehpur-Agra-I	Line	NR	MO	08-11-2016 20:35	Opened manually due to High Voltage	09-11-2016 09:56	13:21:00	0	
83	765kV Fatehpur-Agra-I	Line	NR	MO	09-11-2016 20:57	Opened manually due to High Voltage	10-11-2016 06:46	9:49:00	0	

S. No.	Name of Transmission Element	Type of the element	Region Involved	Fault Type	Tripping Date and Time	Brief Reason/Relay Indication	Restoration Date and Time	Duration	Number of Cumulative tripping in the month	Remarks
84	765kV Fatehpur-Agra-I	Line	NR	MO	10-11-2016 19:50	Opened manually due to High Voltage	11-11-2016 09:36	13:46:00	0	
85	765kV Fatehpur-Agra-I	Line	NR	MO	11-11-2016 20:25	Opened manually due to High Voltage	12-11-2016 09:12	12:47:00	0	
86	765kV Fatehpur-Agra-I	Line	NR	MO	16-11-2016 20:44	Opened manually due to High Voltage	17-11-2016 06:24	9:40:00	0	
87	765kV Fatehpur-Agra-I	Line	NR	MO	17-11-2016 20:22	Opened manually due to High Voltage	18-11-2016 05:23	9:01:00	0	
88	765kV Fatehpur-Agra-I	Line	NR	MO	20-11-2016 20:12	Opened manually due to High Voltage	21-11-2016 09:19	13:07:00	0	
89	765kV Fatehpur-Agra-I	Line	NR	MO	22-11-2016 20:10	Opened manually due to High Voltage	23-11-2016 09:44	13:34:00	0	
90	765kV Fatehpur-Agra-I	Line	NR	MO	23-11-2016 20:24	Opened manually due to High Voltage	24-11-2016 07:34	11:10:00	0	
91	765kV Fatehpur-Agra-I	Line	NR	MO	30-11-2016 19:44	Opened manually due to High Voltage	01-12-2016 00:00	4:16:00	0	
92	765kV Fatehabad-Lalitpur-I	Line	NR	MO	14-11-2016 17:51	Opened manually due to High Voltage	16-11-2016 07:11	37:20:00	0	
93	765kV Fatehabad-Lalitpur-I	Line	NR	MO	24-11-2016 22:13	Opened manually due to High Voltage	25-11-2016 06:12	7:59:00	0	
94	765kV Fatehabad-Lalitpur-I	Line	NR	MO	25-11-2016 21:42	Opened manually due to High Voltage	26-11-2016 06:17	8:35:00	0	
95	765kV Fatehabad-Lalitpur-I	Line	NR	TL	30-11-2016 00:59	Distance Protection operated	30-11-2016 04:39	3:40:00	1	
96	765kV Balia-Lucknow	Line	NR	TL	29-11-2016 06:39	Distance Protection operated	29-11-2016 16:08	9:29:00	1	
97	765kV Balia-Lucknow	Line	NR	SO	30-11-2016 10:44	AMP Works	30-11-2016 18:54	8:10:00	1	
98	765kV Balia-Lucknow	Line	NR	MO	30-11-2016 20:04	Opened manually due to High Voltage	01-12-2016 00:00	3:56:00	1	
99	765kV Anpara C-Unnao	Line	NR	SO	04-11-2016 13:50	To replace B ph LA of line reactor at Anpara end	04-11-2016 20:41	6:51:00	0	
100	765kV Anpara C-Unnao	Line	NR	SC	25-11-2016 11:52	construction of new element	25-11-2016 18:36	6:44:00	0	
101	765kV Anpara C-Unnao	Line	NR	TL	30-11-2016 02:39	Distance Protection operated	30-11-2016 18:05	15:26:00	1	
102	765kV Anpara C-Anpara D	Line	NR	TL	30-11-2016 05:59	Distance Protection operated	30-11-2016 11:18	5:19:00	1	
103	765kV Agra-Jhatikara	Line	NR	TL	21-11-2016 21:49	Distance Protection operated	21-11-2016 22:54	1:05:00	1	
104	765 kV Moga-Meerut	Line	NR	MO	01-11-2016 00:00	Opened manually due to High Voltage	01-11-2016 08:14	8:14:00	0	
105	765 kV Moga-Meerut	Line	NR	MO	03-11-2016 01:27	Opened manually due to High Voltage	04-11-2016 09:17	31:50:00	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	Remarks
106	765 kV Moga-Meerut	Line	NR	MO	06-11-2016 21:52	Opened manually due to High Voltage	07-11-2016 06:48	8:56:00	0	
107	765 kV Moga-Meerut	Line	NR	MO	08-11-2016 00:24	Opened manually due to High Voltage	08-11-2016 07:50	7:26:00	0	
108	765 kV Moga-Meerut	Line	NR	MO	08-11-2016 22:05	Opened manually due to High Voltage	09-11-2016 10:18	12:13:00	0	
109	765 kV Moga-Meerut	Line	NR	MO	10-11-2016 00:13	Opened manually due to High Voltage	10-11-2016 08:46	8:33:00	0	
110	765 kV Moga-Meerut	Line	NR	MO	11-11-2016 02:09	Opened manually due to High Voltage	11-11-2016 10:12	8:03:00	0	
111	765 kV Moga-Meerut	Line	NR	MO	12-11-2016 20:20	Opened manually due to High Voltage	13-11-2016 10:09	13:49:00	0	
112	765 kV Moga-Meerut	Line	NR	MO	13-11-2016 15:11	Opened manually due to High Voltage	14-11-2016 09:15	18:04:00	0	
113	765 kV Moga-Meerut	Line	NR	MO	15-11-2016 00:50	Opened manually due to High Voltage	15-11-2016 09:31	8:41:00	0	
114	765 kV Moga-Meerut	Line	NR	MO	15-11-2016 21:56	Opened manually due to High Voltage	16-11-2016 08:03	10:07:00	0	
115	765 kV Moga-Meerut	Line	NR	MO	16-11-2016 20:12	Opened manually due to High Voltage	17-11-2016 09:13	13:01:00	0	
116	765 kV Moga-Meerut	Line	NR	MO	17-11-2016 21:17	Opened manually due to High Voltage	18-11-2016 09:11	11:54:00	0	
117	765 kV Moga-Meerut	Line	NR	MO	18-11-2016 19:47	Opened manually due to High Voltage	19-11-2016 10:45	14:58:00	0	
118	765 kV Moga-Meerut	Line	NR	MO	19-11-2016 21:03	Opened manually due to High Voltage	21-11-2016 09:35	36:32:00	0	
119	765 kV Moga-Meerut	Line	NR	MO	21-11-2016 21:46	Opened manually due to High Voltage	22-11-2016 09:47	12:01:00	0	
120	765 kV Moga-Meerut	Line	NR	MO	22-11-2016 23:45	Opened manually due to High Voltage	23-11-2016 08:12	8:27:00	0	
121	765 kV Moga-Meerut	Line	NR	MO	24-11-2016 02:15	Opened manually due to High Voltage	24-11-2016 07:42	5:27:00	0	
122	765 kV Moga-Meerut	Line	NR	MO	24-11-2016 21:28	Opened manually due to High Voltage	25-11-2016 06:37	9:09:00	0	
123	765 kV Moga-Meerut	Line	NR	TV	25-11-2016 12:59	Tripped on Over Voltage	26-11-2016 08:39	19:40:00	1	
124	765 kV Moga-Meerut	Line	NR	MO	26-11-2016 21:08	Opened manually due to High Voltage	27-11-2016 11:00	13:52:00	1	
125	765 kV Moga-Meerut	Line	NR	MO	27-11-2016 21:24	Opened manually due to High Voltage	28-11-2016 05:34	8:10:00	1	
126	765 kV Moga-Meerut	Line	NR	MO	30-11-2016 01:03	Opened manually due to High Voltage	30-11-2016 06:56	5:53:00	1	
127	765 kV Moga-Meerut	Line	NR	MO	30-11-2016 21:28	Opened manually due to High Voltage	01-12-2016 00:00	2:32:00	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	Remarks
128	765kV Wardha-Aurangabad-IV	Line	WR	MO	14-11-2016 20:40	Opened manually due to High Voltage	15-11-2016 07:46	11:06:00	0	
129	765kV Wardha-Aurangabad-IV	Line	WR	MO	21-11-2016 19:44	Opened manually due to High Voltage	22-11-2016 07:01	11:17:00	0	
130	765kV Wardha-Aurangabad-III	Line	WR	MO	01-11-2016 00:00	Opened manually due to High Voltage	01-11-2016 05:22	5:22:00	0	
131	765kV Wardha-Aurangabad-III	Line	WR	MO	04-11-2016 22:02	Opened manually due to High Voltage	05-11-2016 08:21	10:19:00	0	
132	765kV Wardha-Aurangabad-III	Line	WR	MO	10-11-2016 22:29	Opened manually due to High Voltage	11-11-2016 07:36	9:07:00	0	
133	765kV Wardha-Aurangabad-III	Line	WR	MO	12-11-2016 19:55	Opened manually due to High Voltage	13-11-2016 07:26	11:31:00	0	
134	765kV Wardha-Aurangabad-III	Line	WR	MO	19-11-2016 21:56	Opened manually due to High Voltage	20-11-2016 05:44	7:48:00	0	
135	765kV Wardha-Aurangabad-III	Line	WR	MO	29-11-2016 19:51	Opened manually due to High Voltage	30-11-2016 07:08	11:17:00	0	
136	765kV Wardha-Aurangabad-II	Line	WR	MO	01-11-2016 00:00	Opened manually due to High Voltage	03-11-2016 09:46	57:46:00	0	
137	765kV Wardha-Aurangabad-II	Line	WR	MO	09-11-2016 23:20	Opened manually due to High Voltage	10-11-2016 06:31	7:11:00	0	
138	765kV Wardha-Aurangabad-II	Line	WR	MO	15-11-2016 21:57	Opened manually due to High Voltage	16-11-2016 06:05	8:08:00	0	
139	765kV Wardha-Aurangabad-II	Line	WR	MO	22-11-2016 20:20	Opened manually due to High Voltage	23-11-2016 06:20	10:00:00	0	
140	765kV Wardha-Aurangabad-II	Line	WR	MO	30-11-2016 20:17	Opened manually due to High Voltage	01-12-2016 00:00	3:43:00	0	
141	765kV Wardha-Aurangabad-I	Line	WR	MO	03-11-2016 22:41	Opened manually due to High Voltage	04-11-2016 08:34	9:53:00	0	
142	765kV Wardha-Aurangabad-I	Line	WR	MO	05-11-2016 23:24	Opened manually due to High Voltage	06-11-2016 07:37	8:13:00	0	
143	765kV Wardha-Aurangabad-I	Line	WR	MO	06-11-2016 21:54	Opened manually due to High Voltage	07-11-2016 07:08	9:14:00	0	
144	765kV Wardha-Aurangabad-I	Line	WR	MO	07-11-2016 22:48	Opened manually due to High Voltage	08-11-2016 06:59	8:11:00	0	
145	765kV Wardha-Aurangabad-I	Line	WR	MO	08-11-2016 22:01	Opened manually due to High Voltage	09-11-2016 06:10	8:09:00	0	
146	765kV Wardha-Aurangabad-I	Line	WR	TV	11-11-2016 23:48	Tripped on Over Voltage	12-11-2016 07:32	7:44:00	1	
147	765kV Wardha-Aurangabad-I	Line	WR	MO	13-11-2016 20:12	Opened manually due to High Voltage	14-11-2016 07:51	11:39:00	1	
148	765kV Wardha-Aurangabad-I	Line	WR	MO	16-11-2016 22:22	Opened manually due to High Voltage	17-11-2016 05:35	7:13:00	1	
149	765kV Wardha-Aurangabad-I	Line	WR	MO	17-11-2016 18:46	Opened manually due to High Voltage	18-11-2016 06:43	11:57:00	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	Remarks
150	765kV Wardha-Aurangabad-I	Line	WR	MO	18-11-2016 21:23	Opened manually due to High Voltage	19-11-2016 07:13	9:50:00	1	
151	765kV Wardha-Aurangabad-I	Line	WR	MO	19-11-2016 20:30	Opened manually due to High Voltage	20-11-2016 08:18	11:48:00	1	
152	765kV Wardha-Aurangabad-I	Line	WR	MO	20-11-2016 19:34	Opened manually due to High Voltage	21-11-2016 07:05	11:31:00	1	
153	765kV Wardha-Aurangabad-I	Line	WR	MO	23-11-2016 20:55	Opened manually due to High Voltage	24-11-2016 05:41	8:46:00	1	
154	765kV Wardha-Aurangabad-I	Line	WR	MO	24-11-2016 21:52	Opened manually due to High Voltage	25-11-2016 05:35	7:43:00	1	
155	765kV Wardha-Aurangabad-I	Line	WR	MO	25-11-2016 19:40	Opened manually due to High Voltage	26-11-2016 05:56	10:16:00	1	
156	765kV Wardha-Aurangabad-I	Line	WR	MO	26-11-2016 18:55	Opened manually due to High Voltage	27-11-2016 07:00	12:05:00	1	
157	765kV Wardha-Aurangabad-I	Line	WR	MO	27-11-2016 19:12	Opened manually due to High Voltage	28-11-2016 07:30	12:18:00	1	
158	765kV Wardha-Aurangabad-I	Line	WR	MO	28-11-2016 21:32	Opened manually due to High Voltage	29-11-2016 06:58	9:26:00	1	
159	765kV Tirora-Koradi-I	Line	WR	SO	28-11-2016 22:30	Charging switchable line reactor at Koradi	28-11-2016 23:14	0:44:00	0	
160	765kV Seoni-Bina-I	Line	WR	SC	07-11-2016 07:50	construction works of 765kV LILO section of 765kV Seoni-Bina	07-11-2016 22:42	14:52:00	0	
161	765kV Seoni-Bina-I	Line	WR	SC	08-11-2016 08:12	construction works of 765kV LILO section of 765kV Seoni-Bina	08-11-2016 19:24	11:12:00	0	
162	765kV Raigarh-PS(Kotra)-Raipur-PS(Durg)-II	Line	WR	MO	01-11-2016 00:00	Opened manually due to High Voltage	04-11-2016 10:42	82:42:00	0	
163	765kV Raigarh-PS(Kotra)-Raipur-PS(Durg)-II	Line	WR	MO	07-11-2016 11:58	Opened manually due to High Voltage	24-11-2016 08:10	404:12:00	0	
164	765kV Raigarh-PS(Kotra)-Raipur-PS(Durg)-I	Line	WR	MO	04-11-2016 11:20	Opened manually due to High Voltage	07-11-2016 11:25	72:05:00	0	
165	765kV Raigarh-PS(Kotra)-Raipur-PS(Durg)-I	Line	WR	MO	24-11-2016 10:17	Opened manually due to High Voltage	01-12-2016 00:00	157:43:00	0	
166	765kV Pune-Sholapur	Line	WR	MO	01-11-2016 00:00	Opened manually due to High Voltage	01-11-2016 06:43	6:43:00	0	
167	765kV Pune-Sholapur	Line	WR	MO	01-11-2016 22:05	Opened manually due to High Voltage	02-11-2016 07:10	9:05:00	0	
168	765kV Pune-Sholapur	Line	WR	MO	02-11-2016 21:58	Opened manually due to High Voltage	03-11-2016 06:52	8:54:00	0	
169	765kV Pune-Sholapur	Line	WR	MO	07-11-2016 02:06	Opened manually due to High Voltage	07-11-2016 06:16	4:10:00	0	
170	765kV Pune-Sholapur	Line	WR	MO	07-11-2016 21:46	Opened manually due to High Voltage	08-11-2016 06:51	9:05:00	0	
171	765kV Pune-Sholapur	Line	WR	MO	08-11-2016 21:40	Opened manually due to High Voltage	09-11-2016 05:54	8:14:00	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	Remarks
172	765kV Pune-Sholapur	Line	WR	MO	09-11-2016 21:59	Opened manually due to High Voltage	10-11-2016 06:59	9:00:00	0	
173	765kV Pune-Sholapur	Line	WR	MO	10-11-2016 22:15	Opened manually due to High Voltage	11-11-2016 06:54	8:39:00	0	
174	765kV Pune-Sholapur	Line	WR	MO	11-11-2016 22:13	Opened manually due to High Voltage	12-11-2016 07:59	9:46:00	0	
175	765kV Pune-Sholapur	Line	WR	MO	13-11-2016 02:16	Opened manually due to High Voltage	13-11-2016 07:51	5:35:00	0	
176	765kV Pune-Sholapur	Line	WR	MO	13-11-2016 22:04	Opened manually due to High Voltage	14-11-2016 07:24	9:20:00	0	
177	765kV Pune-Sholapur	Line	WR	MO	14-11-2016 22:58	Opened manually due to High Voltage	15-11-2016 07:26	8:28:00	0	
178	765kV Pune-Sholapur	Line	WR	MO	15-11-2016 23:25	Opened manually due to High Voltage	16-11-2016 06:30	7:05:00	0	
179	765kV Pune-Sholapur	Line	WR	MO	16-11-2016 20:05	Opened manually due to High Voltage	17-11-2016 05:41	9:36:00	0	
180	765kV Pune-Sholapur	Line	WR	MO	17-11-2016 19:57	Opened manually due to High Voltage	18-11-2016 06:20	10:23:00	0	
181	765kV Pune-Sholapur	Line	WR	MO	18-11-2016 19:45	Opened manually due to High Voltage	19-11-2016 07:07	11:22:00	0	
182	765kV Pune-Sholapur	Line	WR	MO	19-11-2016 19:37	Opened manually due to High Voltage	20-11-2016 08:22	12:45:00	0	
183	765kV Pune-Sholapur	Line	WR	MO	20-11-2016 17:46	Opened manually due to High Voltage	21-11-2016 06:49	13:03:00	0	
184	765kV Pune-Sholapur	Line	WR	MO	21-11-2016 20:58	Opened manually due to High Voltage	22-11-2016 06:07	9:09:00	0	
185	765kV Pune-Sholapur	Line	WR	MO	22-11-2016 23:52	Opened manually due to High Voltage	23-11-2016 06:46	6:54:00	0	
186	765kV Pune-Sholapur	Line	WR	MO	27-11-2016 20:03	Opened manually due to High Voltage	29-11-2016 05:51	33:48:00	0	
187	765kV Pune-Sholapur	Line	WR	MO	29-11-2016 00:29	Opened manually due to High Voltage	29-11-2016 05:51	5:22:00	0	
188	765kV Pune-Sholapur	Line	WR	MO	29-11-2016 22:07	Opened manually due to High Voltage	30-11-2016 06:07	8:00:00	0	
189	765kV Jabalpur-Dharamjaigarh-IV	Line	WR	SO	09-11-2016 10:44	RTV Coating on 765kV Bushing	09-11-2016 17:48	7:04:00	0	
190	765kV Jabalpur-Dharamjaigarh-IV	Line	WR	SE	21-11-2016 11:00	Emergency shutdown	21-11-2016 18:02	7:02:00	0	
191	765kV Jabalpur-Dharamjaigarh-IV	Line	WR	MO	21-11-2016 18:02	Opened manually due to High Voltage	23-11-2016 10:44	40:42:00	0	
192	765kV Jabalpur-Dharamjaigarh-III	Line	WR	SO	07-11-2016 10:56	RTV Coating on 765kV Bushing	07-11-2016 20:33	9:37:00	0	
193	765kV Jabalpur-Dharamjaigarh-III	Line	WR	MO	08-11-2016 12:05	Opened manually due to High Voltage	09-11-2016 12:43	24:38:00	0	

S. No.	Name of Transmission Element	Type of the element	Region Involved	Fault Type	Tripping Date and Time	Brief Reason/Relay Indication	Restoration Date and Time	Duration	Number of Cumulative tripping in the month	Remarks
194	765kV Jabalpur-Dharamjaigarh-III	Line	WR	TP	18-11-2016 09:26	Master trip relay operated at Dharamjaygarh end	18-11-2016 10:50	1:24:00	1	
195	765kV Jabalpur-Dharamjaigarh-II	Line	WR	MO	27-11-2016 13:33	Opened manually due to High Voltage	01-12-2016 00:00	82:27:00	0	
196	765kV Jabalpur-Dharamjaigarh-I	Line	WR	MO	01-11-2016 00:00	Opened manually due to High Voltage	07-11-2016 10:33	154:33:00	0	
197	765kV Jabalpur-Dharamjaigarh-I	Line	WR	MO	23-11-2016 14:15	Opened manually due to High Voltage	27-11-2016 08:56	90:41:00	0	
198	765kV Indore-Vadodara	Line	WR	SE	21-11-2016 13:08	R ph Line wave trap conductor loose/ sparking	22-11-2016 03:49	14:41:00	0	
199	765kV Indore-Vadodara	Line	WR	MO	22-11-2016 03:49	Opened manually due to High Voltage	22-11-2016 06:08	2:19:00	0	
200	765kV Dhule-Vadodara	Line	WR	MO	01-11-2016 00:00	Opened manually due to High Voltage	01-11-2016 05:43	5:43:00	0	
201	765kV Dhule-Vadodara	Line	WR	MO	03-11-2016 23:06	Opened manually due to High Voltage	04-11-2016 07:31	8:25:00	0	
202	765kV Dhule-Vadodara	Line	WR	MO	04-11-2016 23:20	Opened manually due to High Voltage	05-11-2016 06:55	7:35:00	0	
203	765kV Dhule-Vadodara	Line	WR	SE	12-11-2016 12:29	for attending Oil Leakage from ODS (Online Dry out System) of Y-Ph Line Reactor	12-11-2016 18:13	5:44:00	0	
204	765kV Dhule-Vadodara	Line	WR	MO	12-11-2016 22:26	Opened manually due to High Voltage	13-11-2016 07:48	9:22:00	0	
205	765kV Dhule-Vadodara	Line	WR	SE	17-11-2016 12:30	Oil Leakage in B-Phase Line Reactor	17-11-2016 14:15	1:45:00	0	
206	765kV Bina-Jabalpur-III	Line	WR	SO	11-11-2016 08:49	For repairing of Damaged Conductor and fixing of loose spacers.	11-11-2016 19:41	10:52:00	0	
207	765kV Bina-Jabalpur-II	Line	WR	SO	19-11-2016 10:19	For taking of spare reactor out of service bus-1 side	19-11-2016 13:56	3:37:00	0	
208	765kV Bina-Jabalpur-I	Line	WR	SO	04-11-2016 09:22	For taking of spare reactor into service	04-11-2016 18:04	8:42:00	0	
209	765kV Bina-Jabalpur-I	Line	WR	SO	12-11-2016 10:30	For taking of spare reactor	12-11-2016 13:04	2:34:00	0	
210	765kV Bina-Gwalior-II	Line	WR	SO	19-11-2016 11:19	current ubalancing problem in 712 bay	19-11-2016 14:56	3:37:00	0	
211	765kV Bina-Gwalior-I	Line	WR	SO	18-11-2016 10:13	current ubalancing problem in 712 bay	18-11-2016 13:54	3:41:00	0	
212	765kV Raichur-Kurnool-I	Line	SR	SO	08-11-2016 09:06	AMP Works	08-11-2016 21:39	12:33:00	0	
213	765kV Kurnool-Thiruvalem-II	Line	SR	SO	07-11-2016 11:00	AC SUPPLY TO BREAKER PROBLEM	01-12-2016 00:00	565:00:00	0	
214	765kV Kurnool-Thiruvalem-I	Line	SR	MO	01-11-2016 00:00	Opened manually due to High Voltage	07-11-2016 10:50	154:50:00	0	
215	765kV Kurnool-Nellore(PS)-II	Line	SR	MO	01-11-2016 00:00	Opened manually due to High Voltage	15-11-2016 15:32	351:32:00	0	

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216	765kV Kurnool-Nellore(PS)-I	Line	SR	MO	15-11-2016 15:08	Opened manually due to High Voltage	01-12-2016 00:00	368:52:00	0	
400kV - IR										
217	400 kV Zerda-Kankaroli	Line	WR/NR	TL	17-11-2016 13:50	Distance Protection operated	17-11-2016 15:17	1:27:00	1	
218	400 kV Zerda-Kankaroli	Line	WR/NR	SE	22-11-2016 11:33	To attend the Hot spot	22-11-2016 20:39	9:06:00	1	
219	400 kV Zerda-Bhinmal	Line	WR/NR	SO	20-11-2016 09:56	AMP Works	20-11-2016 16:03	6:07:00	0	
220	400 kV Zerda-Bhinmal	Line	WR/NR	SE	23-11-2016 10:11	To attend hot spot	23-11-2016 19:22	9:11:00	0	
221	400 kV Varanasi-Biharshariff-I	Line	ER/NR	SE	13-11-2016 12:49	Tree cutting	13-11-2016 15:24	2:35:00	0	
222	400 kV Tala - Binaguri - I	Line	Bhutan	MO	14-11-2016 22:43	Opened manually due to High Voltage	21-11-2016 09:25	154:42:00	0	
223	400 kV Siliguri-Bongaigaon-IV	Line	ER/NER	TL	01-11-2016 11:07	Distance Protection operated	01-11-2016 12:09	1:02:00	1	
224	400 kV Siliguri-Bongaigaon-IV	Line	ER/NER	MO	13-11-2016 22:30	Opened manually due to High Voltage	14-11-2016 17:50	19:20:00	1	
225	400 kV Siliguri-Bongaigaon-IV	Line	ER/NER	MO	30-11-2016 22:59	Opened manually due to High Voltage	01-12-2016 00:00	1:01:00	1	
226	400 kV Siliguri-Bongaigaon-III	Line	ER/NER	MO	01-11-2016 00:00	Opened manually due to High Voltage	01-11-2016 11:33	11:33:00	0	
227	400 kV Siliguri-Bongaigaon-III	Line	ER/NER	MO	02-11-2016 04:01	Opened manually due to High Voltage	02-11-2016 17:02	13:01:00	0	
228	400 kV Siliguri-Bongaigaon-III	Line	ER/NER	MO	05-11-2016 00:09	Opened manually due to High Voltage	05-11-2016 18:06	17:57:00	0	
229	400 kV Siliguri-Bongaigaon-III	Line	ER/NER	MO	06-11-2016 01:20	Opened manually due to High Voltage	06-11-2016 18:02	16:42:00	0	
230	400 kV Siliguri-Bongaigaon-III	Line	ER/NER	MO	07-11-2016 01:11	Opened manually due to High Voltage	07-11-2016 17:52	16:41:00	0	
231	400 kV Siliguri-Bongaigaon-III	Line	ER/NER	MO	07-11-2016 22:35	Opened manually due to High Voltage	08-11-2016 09:03	10:28:00	0	
232	400 kV Siliguri-Bongaigaon-III	Line	ER/NER	MO	08-11-2016 21:53	Opened manually due to High Voltage	09-11-2016 16:59	19:06:00	0	
233	400 kV Siliguri-Bongaigaon-III	Line	ER/NER	MO	11-11-2016 00:19	Opened manually due to High Voltage	12-11-2016 18:06	41:47:00	0	
234	400 kV Siliguri-Bongaigaon-III	Line	ER/NER	MO	12-11-2016 22:50	Opened manually due to High Voltage	13-11-2016 17:38	18:48:00	0	
235	400 kV Siliguri-Bongaigaon-III	Line	ER/NER	MO	14-11-2016 22:10	Opened manually due to High Voltage	15-11-2016 17:15	19:05:00	0	
236	400 kV Siliguri-Bongaigaon-III	Line	ER/NER	MO	15-11-2016 22:09	Opened manually due to High Voltage	16-11-2016 17:12	19:03:00	0	

S. No.	Name of Transmission Element	Type of the element	Region Involved	Fault Type	Tripping Date and Time	Brief Reason/Relay Indication	Restoration Date and Time	Duration	Number of Cumulative tripping in the month	Remarks
237	400 kV Siliguri-Bongaigaon-III	Line	ER/NER	MO	17-11-2016 23:34	Opened manually due to High Voltage	18-11-2016 06:52	7:18:00	0	
238	400 kV Siliguri-Bongaigaon-III	Line	ER/NER	MO	23-11-2016 22:55	Opened manually due to High Voltage	30-11-2016 17:12	162:17:00	0	
239	400 kV Siliguri-Bongaigaon-III	Line	ER/NER	MO	24-11-2016 22:49	Opened manually due to High Voltage	30-11-2016 17:12	138:23:00	0	
240	400 kV Siliguri-Bongaigaon-II	Line	ER/NER	MO	09-11-2016 23:28	Opened manually due to High Voltage	10-11-2016 16:51	17:23:00	0	
241	400 kV Shujalpur-RAPP-II	Line	WR/NR	SC	01-11-2016 00:00	For dismantling old reactor(BHEL) and erection with new reactor(CGL) under RAPP#7&8	11-11-2016 19:51	259:51:00	0	
242	400 kV Shujalpur-RAPP-II	Line	WR/NR	SC	15-11-2016 11:51	Synchronization at RAPP	15-11-2016 16:47	4:56:00	0	
243	400 kV Shujalpur-RAPP-I	Line	WR/NR	SC	01-11-2016 00:00	for dismantling old reactor(BHEL) and erection with new reactor(CGL)	07-11-2016 18:50	162:50:00	0	
244	400 kV Sasaram-Varanasi	Line	ER/NR	SO	11-11-2016 10:00	For PLCC commissioning works with NR Bus at Sasaram	15-11-2016 19:41	105:41:00	0	
245	400 kV Sasaram-Allahabad	Line	ER/NR	SO	25-11-2016 10:52	Insulator cleaning	25-11-2016 18:34	7:42:00	0	
246	400 kV Ranchi-Sipat-II	Line	ER/WR	SO	10-11-2016 10:45	DGA sampling of line reactor bushing at Sipat	10-11-2016 17:39	6:54:00	0	
247	400 kV Patna-Balia-IV	Line	ER/NR	MO	26-11-2016 08:04	Opened manually due to High Voltage	26-11-2016 09:20	1:16:00	0	
248	400 kV Patna-Balia-III	Line	ER/NR	SE	16-11-2016 10:35	Insulator replacement	16-11-2016 17:12	6:37:00	0	
249	400 kV Bhadravati-Ramagundam-II	Line	WR/SR	SO	24-11-2016 10:08	JUMPER CUT REPLACEMENT	24-11-2016 14:47	4:39:00	0	
250	400 kV Behramara-Behrapore-II	Line	Bangladesh	SO	26-11-2016 07:32	AMP Works	26-11-2016 15:30	7:58:00	0	
251	400 kV Behramara-Behrapore-I	Line	Bangladesh	SO	25-11-2016 07:41	AMP Works	25-11-2016 15:51	8:10:00	0	
252	400 kV Barh-Gorakhpur-I	Line	ER/NR	SE	01-11-2016 12:40	To attend hot spot	01-11-2016 18:45	6:05:00	0	
220 kV - IR										
253	220 kV Talangde-Chikkodi	Line	WR/SR	SO	22-11-2016 10:15	AMP Works	22-11-2016 17:13	6:58:00	0	
254	220 kV Talangde-Chikkodi	Line	WR/SR	SO	24-11-2016 14:47	Testing of breaker	25-11-2016 00:39	9:52:00	0	
255	220 kV Mudasang (Kolhapur)-Chikkodi	Line	WR/SR	SE	21-11-2016 10:01	Hot Spot	21-11-2016 18:18	8:17:00	0	
256	220 kV Mudasang (Kolhapur)-Chikkodi	Line	WR/SR	SO	24-11-2016 18:25	Testing of breaker	25-11-2016 00:56	6:31:00	0	
257	220 kV Malbase - Birpara	Line	Bhutan	SE	03-11-2016 17:19	Hot Spot	03-11-2016 19:23	2:04:00	0	

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258	220 kV Malanpur-Auraiya	Line	WR/NR	TL	04-11-2016 21:30	Distance Protection operated	04-11-2016 21:45	0:15:00	1	
259	220 kV Malanpur-Auraiya	Line	WR/NR	TL	27-11-2016 01:25	Distance Protection operated	27-11-2016 02:54	1:29:00	2	
260	220 kV Chukha - Birpara - II	Line	Bhutan	MO	21-11-2016 14:41	Opened manually due to High Voltage	22-11-2016 09:50	19:09:00	0	
261	220 kV Chukha - Birpara - II	Line	Bhutan	SO	22-11-2016 09:50	Insulator replacement	22-11-2016 18:32	8:42:00	0	
262	220 kV Chukha - Birpara - II	Line	Bhutan	MO	23-11-2016 03:20	Opened manually due to High Voltage	23-11-2016 22:52	19:32:00	0	
263	220 kV Chukha - Birpara - II	Line	Bhutan	SO	24-11-2016 09:12	Insulator replacement	24-11-2016 18:37	9:25:00	0	
264	220 kV Chukha - Birpara - II	Line	Bhutan	MO	26-11-2016 09:00	To facilitate S/D of Chukha-Birpara 1	26-11-2016 09:33	0:33:00	0	
265	220 kV Chukha - Birpara - I	Line	Bhutan	SO	26-11-2016 09:43	Insulator replacement	28-11-2016 17:14	55:31:00	0	
266	220 kV Budhipadar-Korba-III	Line	ER/WR	TL	29-11-2016 08:56	Distance Protection operated	29-11-2016 10:26	1:30:00	1	
267	220 kV Birpara-Salakati-II	Line	ER/NER	SC	16-11-2016 09:06	For energisation of 220kV Alipurduar switchyard by LILO of existing 220kV Birpara-Salakati-1&2	19-11-2016 13:06	76:00:00	0	
268	220 kV Birpara-Salakati-I	Line	ER/NER	SC	16-11-2016 09:05	For energisation of 220kV Alipurduar switchyard by LILO of existing 220kV Birpara-Salakati-1&2	19-11-2016 12:23	75:18:00	0	
269	220 kV Badod-Kota	Line	WR/NR	SE	10-11-2016 15:50	To attend Hot spot	12-11-2016 18:31	50:41:00	0	
270	220 kV Badod-Kota	Line	WR/NR	TL	21-11-2016 22:32	Distance Protection operated	21-11-2016 23:23	0:51:00	1	
765 kV Reactors & ICTs										
271	B/R-I at G'Noida	Bus Reactor	NR	SE	01-11-2016 00:00	To attend hot spot	01-12-2016 00:00	720:00:00	0	
272	B/R-II at Varanasi	Bus Reactor	NR	SO	22-11-2016 10:40	For commissioning of spare unit	22-11-2016 19:35	8:55:00	0	
273	B/R-II at Jabalpur	Bus Reactor	WR	SO	05-11-2016 10:50	RTV Coating on 765kV Bushing	05-11-2016 13:31	2:41:00	0	
274	B/R-I at Champa	Bus Reactor	WR	SE	10-11-2016 08:26	Heavy Oil Leakage in B- Phase BR	10-11-2016 18:17	9:51:00	0	
275	B/R-I at Gwalior	Bus Reactor	WR	SO	25-11-2016 10:19	AMP Works	25-11-2016 17:27	7:08:00	0	
276	B/R-I at Raipur	Bus Reactor	WR	SC	25-11-2016 10:51	Shifting of under cont. Reactor of Wardha # 3 to its foundation. by Durg PS	25-11-2016 16:58	6:07:00	0	
277	765/400 kV ICT-I at Unnao	ICT	NR	SE	02-11-2016 14:24	To attend hot spot	02-11-2016 17:35	3:11:00	0	
278	765/400 kV ICT-I at Bareilly	ICT	NR	SO	03-11-2016 11:24	AMP Works	03-11-2016 21:17	9:53:00	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	Remarks
279	765/400 kV ICT-II at Antah	ICT	NR	SO	15-11-2016 10:10	Syncronisation of 765/400kv ICT Bank -2 with spare ICT	19-11-2016 22:28	108:18:00	0	
280	765/400 kV ICT-I at Bareilly	ICT	NR	SO	15-11-2016 10:45	AMP Works	15-11-2016 20:47	10:02:00	0	
281	765/400 kV ICT-III at Antah	ICT	NR	SO	21-11-2016 11:14	Syncronisation of 400kv/765kv ICT-3 with spare bank	24-11-2016 19:03	79:49:00	0	
282	765/400 kV ICT-I at Phagi	ICT	NR	SO	26-11-2016 12:48	For the dismantling of HV Bushing and IV Bushing	26-11-2016 19:48	7:00:00	0	
283	765/400 kV ICT-I at Fatehabad	ICT	NR	ME	30-11-2016 00:59	Loss of evacuation	30-11-2016 04:34	3:35:00	0	
284	765/400 kV ICT-I at Anpara C	ICT	NR	ME	30-11-2016 02:39	Loss of evacuation	30-11-2016 18:05	15:26:00	0	
285	765/400 kV ICT-II at Anpara C	ICT	NR	ME	30-11-2016 02:39	Loss of evacuation	30-11-2016 18:05	15:26:00	0	
286	765/400 kV ICT-I at Anpara D	ICT	NR	ME	30-11-2016 05:59	Loss of evacuation	30-11-2016 11:28	5:29:00	0	
287	765/400 kV ICT-I at Ranchi New	ICT	ER	SO	11-11-2016 11:25	To take spare unit in service	11-11-2016 19:29	8:04:00	0	
288	765/400 kV ICT-III at Angul	ICT	ER	SO	15-11-2016 12:00	For Fist time charging of spare unit in B-phase	15-11-2016 16:30	4:30:00	0	
289	765/400 kV ICT-I at Jharsuguda	ICT	ER	TP	17-11-2016 17:50	While configuring bus bar relay-2 for 400 kV bus bar-1	17-11-2016 18:24	0:34:00	1	
290	765/400 kV ICT-II at Jharsuguda	ICT	ER	TP	17-11-2016 17:50	While configuring bus bar relay-2 for 400 kV bus bar-1	17-11-2016 18:25	0:35:00	1	
291	765/400 kV ICT-I at Ranchi New	ICT	ER	SO	21-11-2016 08:23	B-Phase Unit Dismantling	21-11-2016 18:59	10:36:00	0	
292	765/400 kV ICT-I at Ranchi New	ICT	ER	SE	22-11-2016 11:47	Bushing dismantling work	22-11-2016 17:34	5:47:00	0	
293	765/400 kV ICT-I at Jharsuguda	ICT	ER	SO	25-11-2016 09:01	For rectification of mechanical interlock of Line isolator and RTV coating of 765kV bushings	25-11-2016 18:52	9:51:00	1	
294	765/400 kV ICT-I at Jharsuguda	ICT	ER	SO	26-11-2016 09:17	For rectification of mechanical interlock of Line isolator and RTV coating of 765kV bushings	26-11-2016 17:54	8:37:00	1	
295	765/400 kV ICT-I at Ranchi New	ICT	ER	SC	28-11-2016 08:24	Erection work	28-11-2016 18:38	10:14:00	0	
296	765/400 kV ICT-II at Jharsuguda	ICT	ER	SO	29-11-2016 09:00	Rectification of Mechanical Interlock in Isolators	29-11-2016 19:05	10:05:00	1	
297	765/400 kV ICT-II at Jharsuguda	ICT	ER	SO	30-11-2016 09:15	Rectification of Mechanical Interlock in Isolators	30-11-2016 18:39	9:24:00	1	
298	765/400 kV ICT-II at Sipat	ICT	WR	SO	09-11-2016 08:38	AMP Works	12-11-2016 12:35	75:57:00	0	
299	765/400 kV ICT-I at Akola-II	ICT	WR	SO	16-11-2016 08:46	Changeover of repaired B Phase ICT with the spare phase of ICT	16-11-2016 19:45	10:59:00	0	
300	765/400 kV ICT-II at Vindhyachal PS	ICT	WR	SO	19-11-2016 09:44	Fine tuning of CSD relay by M/s alstom	19-11-2016 21:03	11:19:00	0	

S. No.	Name of Transmission Element	Type of the element	Region Involved	Fault Type	Tripping Date and Time	Brief Reason/Relay Indication	Restoration Date and Time	Duration	Number of Cumulative tripping in the month	Remarks
301	765/400 kV ICT-II at Bhopal	ICT	WR	SE	20-11-2016 10:03	To attend hot spot	20-11-2016 10:37	0:34:00	0	
302	765/400 kV ICT-III at Wardha	ICT	WR	SO	21-11-2016 08:52	AMP Works	21-11-2016 18:41	9:49:00	0	
303	765/400 kV ICT-I at Sholapur-PG	ICT	WR	SO	21-11-2016 10:25	AMP Works	21-11-2016 18:53	8:28:00	0	
304	765/400 kV ICT-II at Vindhyachal PS	ICT	WR	SO	22-11-2016 10:22	RTCC operation & PRD replacement for bushing oil sampling	22-11-2016 19:50	9:28:00	0	
305	765/400 kV ICT-I at Vindhyachal PS	ICT	WR	SO	23-11-2016 09:53	RTCC operation & PRD replacement for bushing oil sampling	23-11-2016 14:30	4:37:00	0	
306	765/400 kV ICT-I at Vadodara	ICT	WR	SO	23-11-2016 10:27	AMP Works	23-11-2016 13:27	3:00:00	0	
307	765/400 kV ICT-I at Wardha	ICT	WR	SO	24-11-2016 11:31	AMP Works	24-11-2016 19:00	7:29:00	0	
308	765/400 kV ICT-VI at Champa	ICT	WR	SE	24-11-2016 13:21	to arrest Heavy Oil Leakage	24-11-2016 17:48	4:27:00	0	
309	765/400 kV ICT-I at Raigarh-PS(Kotra)	ICT	WR	SO	29-11-2016 09:43	CSD COMMISSIONING TRIALS	29-11-2016 15:08	5:25:00	0	
310	765/400 kV ICT-II at Pune	ICT	WR	SO	29-11-2016 10:07	AMP Works	29-11-2016 12:18	2:11:00	0	
311	765/400 kV ICT-IV at Raigarh-PS(Kotra)	ICT	WR	SO	30-11-2016 09:41	CSD COMMISSIONING TRIALS	30-11-2016 14:24	4:43:00	0	
312	765/400 kV ICT-II at Thiruvalem	ICT	SR	SO	12-11-2016 10:33	AMP Works	12-11-2016 14:17	3:44:00	0	
313	765/400 kV ICT-II at Kurnool New	ICT	SR	SO	15-11-2016 09:59	AMP Works	15-11-2016 19:46	9:47:00	0	
314	765/400 kV ICT-III at Nellore	ICT	SR	SO	18-11-2016 09:35	AMP Works	18-11-2016 18:02	8:27:00	0	

TL	TL= Tripping due to Line Fault	Total Number of 765 kV lines	102
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	19
SC	SC= Planned Shutdown for construction activities	Total Number of 765 kV ICTs	118
SO	SO= Planned Shutdown for O&M activities	Total Number of 765 kV B/R	62
SE	SE= Emergency Shutdown	Grand Total	351
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 November 2016

Date: 23-Dec-2016

Percentage (%) of times ATC was violated

S.No.	Corridor	Number of Blocks Violated	Number of Hours Violated	%Violation
1	WR-NR	43	10.75	1.72
2	ER-NR	0	0.00	0.00
3	Import of NR	142	35.50	5.69
4	NEW-SR	547	136.75	21.92
5	ER-NER	16	4.00	0.64

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

S.No.	Corridor	Number of Blocks Violated	Number of Hours Violated	%Violation
1	WR-NR	12	3.00	0.48
2	ER-NR	0	0.00	0.00
3	Import of NR	40	10.00	1.60
4	NEW-SR	8	2.00	0.32
4	ER-NER	40	10.00	1.60

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



POWER SYSTEM OPERATION CORPORATION LIMITED

पावर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड

NATIONAL LOAD DESPATCH CENTRE – राष्ट्रीय भार प्रेषण केन्द्र

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