

SYSTEM PERFORMANCE REPORT



JUNE'2020

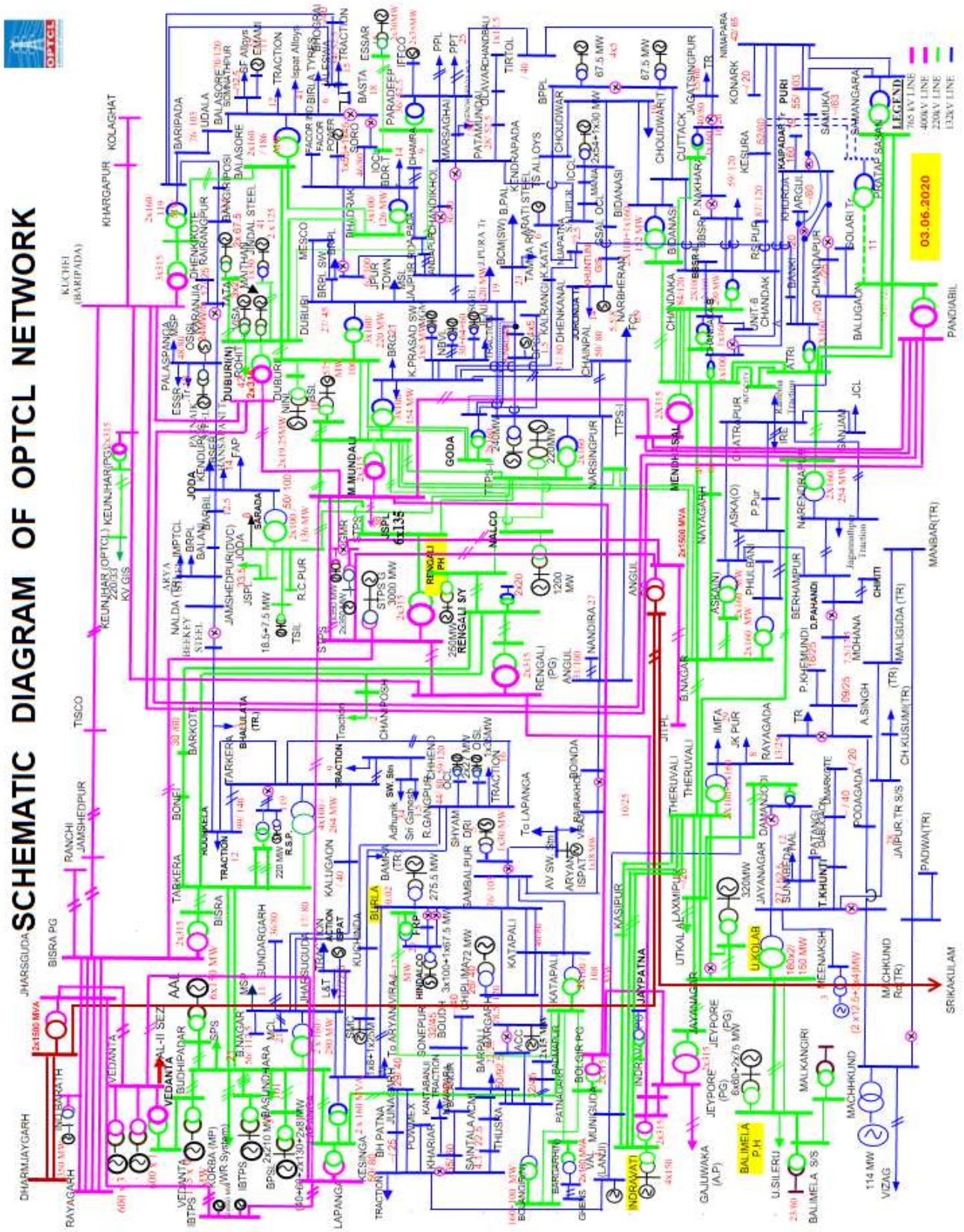
,SLDC, OPTCL
BHUBANESWAR – 17

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SCHEMATIC DIAGRAM OF OPTCL NETWORK



SUMMARY REPORT FOR JUNE- 2020

A. Voltage Profile

<u>220 KV</u>			<u>Date & Time</u>	<u>Location</u>
	Maxm.	-	244.97 kV	Jayanagar
			03.06.2020 15:30Hrs	
	Minm.	-	>240 KV 197.40 kV	Jayanagar, Laxmipur.
			16.05.2020 15:00 Hrs	Bidanasi
			< 200 KV	Nil.
<u>132 KV</u>	Maxm.	-	143.53 kV	Chainpal
			03.06.2020 18:00 Hrs	
			>145 KV	Nil.
	Minm.	-	109.18 kV	Bargarh
			20.06.2020 15:45 Hrs	
			< 120 KV	Bargarh, Bhadrak, Bolangir, Bolangir New, Chandaka, Puri.

B. Frequency Profile

		<u>Date & Time</u>
Maxm. -	50.30 Hz	21.06.2020 09:57 Hrs.
Minm. -	49.63 Hz	09.06.2020 22:13 Hrs.
Average -	50.01 Hz	
% of time the freq. is within 49.9 Hz to 50.05 Hz - (IEGC band)		75.22%
% of time the freq. is > 50.05 HZ -		20.64%
% of time the freq. is ≤49.9 HZ -		4.14%
% of time the freq.is < 48.5 HZ -		0.00%

C. Demand Profile

Peak System Demand	4360.41 MW	At 23:00 Hrs on 06.06.2020
Minimum System Demand	2162.64 MW	At 24:00 Hrs on 24.06.2020
Average System Demand	3490.36 MW	

D. Major events

<u>Sl. No</u>	<u>Date</u>	<u>Details of event</u>
1	25.06.2020	At 16:35 Hrs, 132 kV Samangara -Satasankha ckt -I charged. At 16:40 Hrs, 132 kV Samangara -Satasankha ckt -II charged. At 19:45 Hrs, 20 MVA, 132/ 33 kV Power Trf -II charged at Grid S/S, Satasankha.

GENERATION CAPACITY

STATE SECTOR GENERATION

All Figures in MW

SL.NO.	NAME OF POWER STATION	INSTALLED CAPACITY		FIRM POWER (MW)
1	O.H.P.C.			
	HIRAKUD POWER STATION			
	(a)BURLA	2x49.5 = 99 2x32 = 64 3x37.5 = 112.5	275.5	134
	(b)CHIPLIMA	3x24	72	
	BALIMELA POWER HOUSE	6x60 + 2x75	510	135
	RENGALI POWER HOUSE	5x50	250	60
	UPPER KOLAB POWER HOUSE	4x80	320	95
	INDRAVATI POWER HOUSE	4x150	600	224
	MACHHKUND POWER HOUSE (Orissa Share 30%, Purchase upto 20% extra)	3x17 = 51.00 3x23= 69	36	30
	TOTAL HYDRO (A)	2063.5		
2	N.T.P.C.(TAKEN OVER)			
	TTPS STAGE-I	4x60 = 240	160.2 (Auxilliary 10.5 %, Availability 80%)	160.2 (Auxilliary 10.5 %, Availability 80%)
	TTPS STAGE - II	2x110 = 220	146.85 (Auxilliary 10.5 %, Availability 80%)	146.85 (Auxilliary 10.5 %, Availability 80%)
	TOTAL TTPS	460		
3	O.P.G.C.			
	IB TPS	2x210 = 420	342.09 (Auxilliary 9.5 %, Availability 90%)	342.09 (Auxilliary 9.5 %, Availability 90%)
	IB TPS-Stage-II	2x660 = 1320	(75) 833.085 (Share 75%, Auxilliary 6.5 %, Availability 90%)	833.085 (Share 75%, Auxilliary 6.5 %, Availability 90%)
	TOTAL THERMAL (B)	2200		

CENTRAL SECTOR GENERATION

SL.NO.	NAME OF POWER STATION	INSTALLED CAPACITY	OPTCL'S SHARE OF INSTALLED CAPACITY ON REALTIME BASIS.		AUX. CONS.	% AGE AVAILABILITY (excluding UA)
			% age	MW	%	%
1	CHUKHA (BHUTAN)	4 x 84 = 336 (Considering 270 MW, total availability)	15.19	41.00		85
2	TALA HEP (BHUTAN)	6 x 170 = 1020	4.25	43.40		
3	FARAKKA (WEST BENGAL)	3 x 200 = 600 2 x 500 = 1000 1 x 500 = 500	13.63 16.62	218.08 83.10	7.5	77.91 85
4	KAHALGAON (BIHAR)	4 x 210 = 840 3 x 500 = 1500	15.24 2.05	132.47 39.30	9 9	53.98 62.11
5	TSTPP, KANIHA (ORISSA)	2 x 500 = 1000 4 x 500 = 2000	31.8 10	318.00 200.00	7.5 7.5	85
6	TISTA HEP (SIKKIM)	3 x 170 = 510	20.59	105.00		85
7	MANGDECHU HEP, BHUTAN	4x180	9.33+1.65	90.87		
8	MTPS (Mijafarpur) (BIHAR)	2x195	8.53	33.27		
9	DARLIPALI STPS	1X800	58.82	470.56		
	TOTAL ISGS			1775.05		

GRAND TOTAL, (A) + (B) + (C) = 6038.55

Firm power for OHPC stations has been computed as per design energy of the stations approved by CEA. Firm availability of State Thermal as per CERC /OERC norms. ISGS share of power is as per CGS power allocation sheet of CEA as on 01.07.2013.

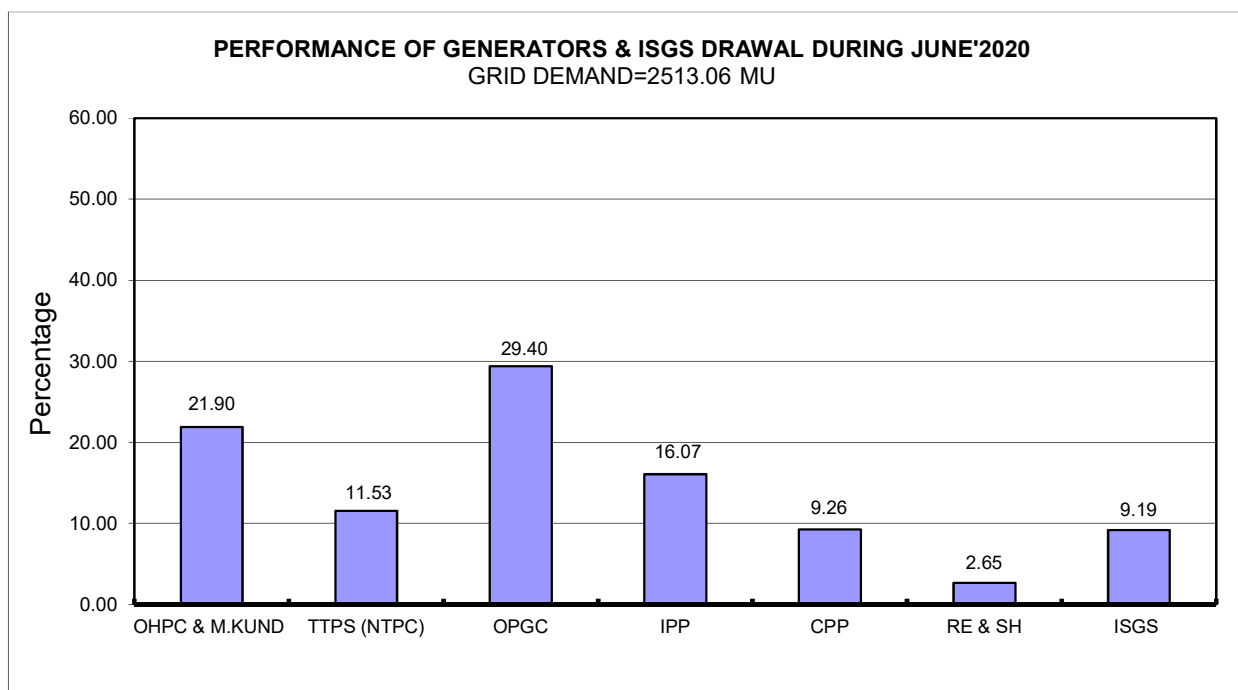
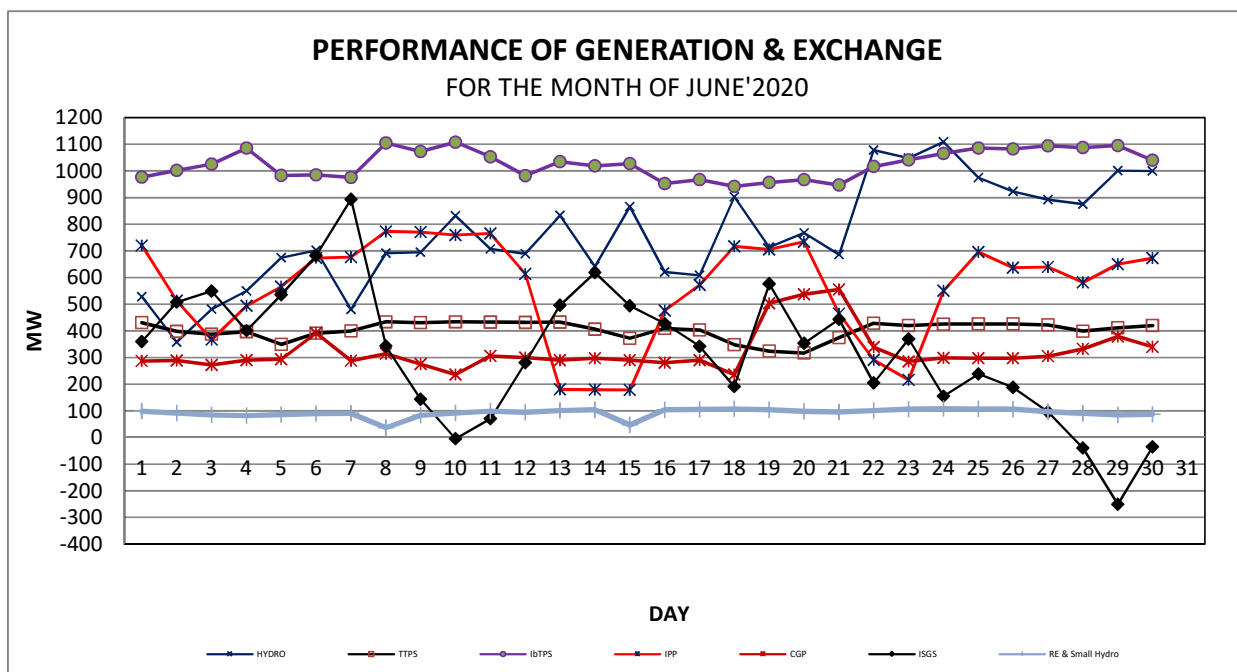
CAPACITY OF IPP, CPP, SMALL HYDRO & RENEWABLE

SL.No	POWER STATION	INSTALLED CAPACITY	TOTAL	TYPE	VOLTAGE LEVEL
IPP & SMALL HYDRO					
1	MEENAKSHI POWER LTD.	3 X 4 + 2 X 12.5	37	SMALL HYDRO	132 kV
2	ORISSA POWER CONSORTIUM LTD.	4 X 5	20	SMALL HYDRO	132 kV
3	VEDANTA LTD., JHARSUGUDA(IPP)	1 X 600	600	THERMAL	400kV
4	GMR KAMALANGA ENERGY LTD.	3 X 350	1050	THERMAL	400kV
5	JITPL	2 X 600	1200	THERMAL	400kV
6	NBVL (MERAMUNDALI)	1 X 60=60	60	THERMAL	132 kV
	TOTAL		2967		

CPP					
1	AARATI STEEL GHANTIKHAL	1 X 40 + 1 X 50	90	THERMAL	132 kV
2	ACC. BARGARH	1 X 30	30	THERMAL	132 kV
3	ACTION ISPAT & POWER PVT. LTD.	1 X 12 + 1 X 25 + 1 X 43	80	THERMAL	132 kV
4	ARYAN ISPAT & POWER PVT. LTD.	1 X 18	18	THERMAL	132 kV
5	ADITYA ALUMINIUM Ltd	6X 150	900	THERMAL	220 kV
6	BHUBANESWAR POWER PVT. LTD.	2 X 67.5	135	THERMAL	132 kV
7	BHUSAN STEEL LTD.,MERAMUNDALI	1 X 33+1 X 77+ 2 X 150+2 X 165	740	THERMAL	220 kV
8	BHUSAN POWER & STEEL LTD,	1X60+1X40+3X130+ 2 X 8	506	THERMAL	220 kV
9	EMAMI PAPER MILLS.	1 X 15 + 1 X 5	20	THERMAL	132 kV
10	ESSAR POWER LTD	2x30	60	THERMAL	220 kV
10	FACOR POWER	1X 45	45	THERMAL	132 kV
11	HPCL(HINDALCO),(HIRAKUD)	1 X 67.5 + 3 X 100	367.5	THERMAL	132 kV
12	IMFA(CHOUDWAR)	2 X 54 + 1 X 30 + 2 X 60	258	THERMAL	132 kV
13	IFFCO (PARADEEP)	2 X 55	110	THERMAL	132 kV
14	JINDAL STAINLESS LTD., DUBURI	2 X 125 + 1 X 13	263	THERMAL	220 kV
15	JINDAL STEEL & POWER LTD., ANGUL	6 X 135	810	THERMAL	220 kV
16	NINL (DUBURI)	2 X 19.25 + 1 X 24	62.5	THERMAL	220 kV
17	MAHAVIR FERRO ALLOYS PVT. LTD.	1 X 12	12	THERMAL	33 kV
18	MAITHAN ISPAT NIGAM LTD., Jajpur Rd	1 X 30	30	THERMAL	220 kV
19	MSP METTALLICS LTD.	1 X 25	25	THERMAL	132 kV
20	NALCO(ANGUL)	10 X 120	1200	THERMAL	220 kV
21	NALCO(DAMANJODI)	18.5 X 4	74	THERMAL	132 kV
22	NARBHERAM POWER & STEEL PVT.	1 X 8	8	THERMAL	132 kV
23	NBVL (MERAMUNDALI)	1 X 30 + 1X 64	94	THERMAL	132 kV
24	OCL INDIA LTD., RAJGANGPUR	2 X 27	54	THERMAL	132 kV
25	OISL, RAJGANGPUR	1 X 35	35	THERMAL	132 kV
25	ORISSA SPONGE IRON & STEEL LTD.	1 X 24	24	THERMAL	132 kV
26	PATTANAIK STEEL, (KEONJHAR)	1 X 15	15	THERMAL	33 kV
27	RATHI STEEL & POWER LTD. (Katapalli)	1 X 20	20	THERMAL	33 kV
28	RSP(ROURKELA)	2 X 60 + 4 X 25	220	THERMAL	220 kV
29	SEVEN STAR STEELS LTD.	1 X 8	8	THERMAL	33 kV
30	SHYAM DRI, (PANDOLI, SAMBALPUR)	1 X 30	30	THERMAL	132 kV
31	SMC POWER GENERATION LTD.	1 X 8 + 1 X 25	33	THERMAL	132 kV
32	SREE GANESH	1 X 32	32	THERMAL	132 kV
33	TATA SPONGE IRON (JODA)	1 X 18.5 + 1 X 7.5	26	THERMAL	220 kV
34	TATA POWER & STEEL, (K NAGAR)	2 X 67.5	135	THERMAL	220 kV
35	UTKAL ALUMINA, LAXMIPUR	3x30	90	THERMAL	220 kV
36	VEDANTA LTD.(SEZ),JHARSUGUDA	3 X 600	1800	THERMAL	400 kV
37	VEDANTA (JHARSUGUDA))	9 X 135	1215	THERMAL	220 kV
38	VEDANTA (LANJIGARH)	3 X 30	90	THERMAL	132 kV
39	VISA STEEL LTD., (NEW DUBURI)	3 X 25	75	THERMAL	220 kV
40	YAZDANI STEEL & POWER.	1 X 10	10	THERMAL	33 kV
		TOTAL	9850		

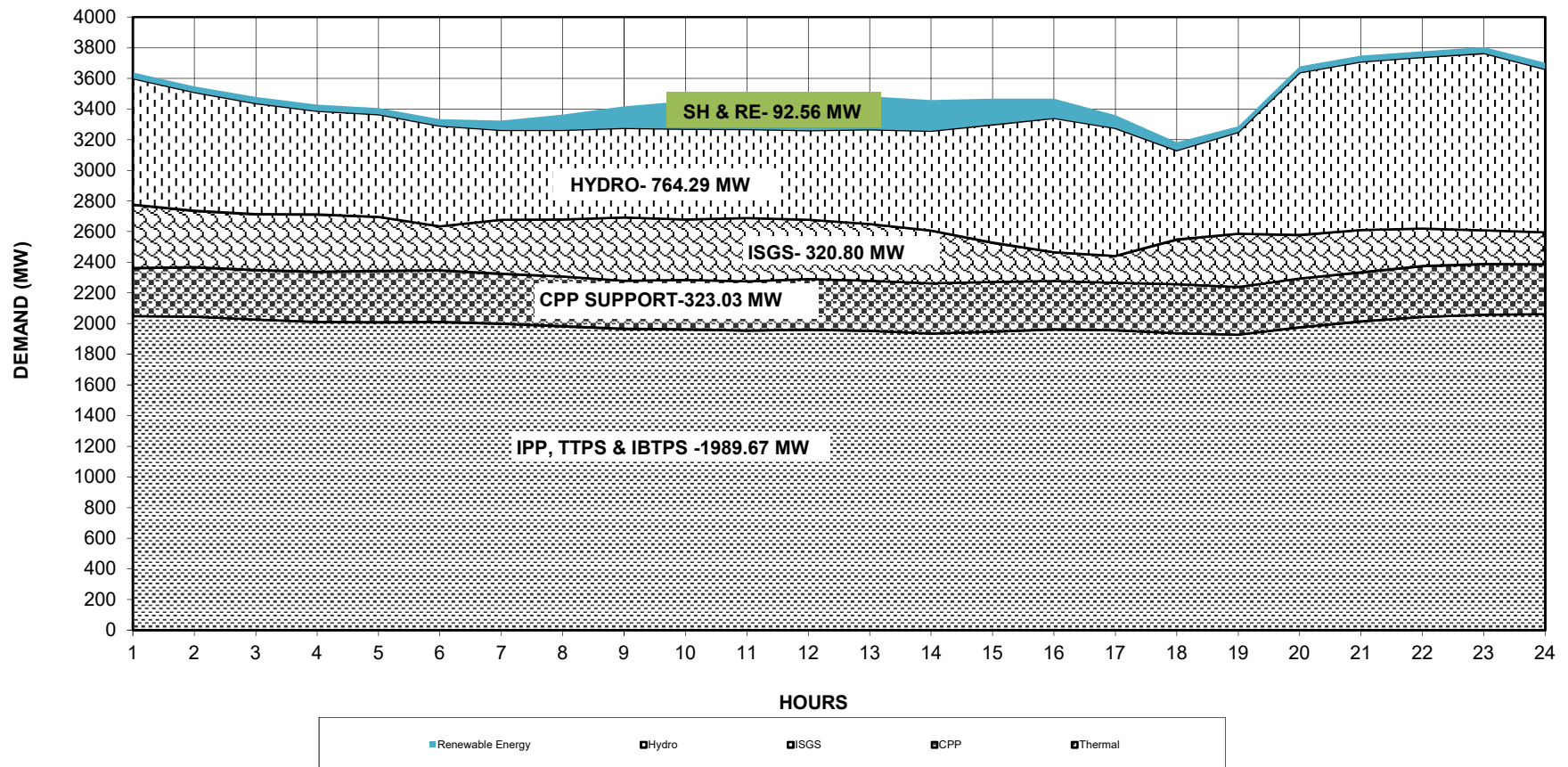
RENEWABLE PROJECTS

Sl.No	POWER STATION	INSTALLED CAPACITY	TOTAL	TYPE		CONNECTIVITY VOLTAGE
1	ABACUS HOLDINGS PVT. LTD, SONEPUR	1 MW	1	SOLAR		11 kV
2	AFTAAB SOLAR PVT. LTD. ,BOLANGIR (N)	5 MW	5	SOLAR		33 kV
3	ALEX GREEN ENERGY PVT LTD. PATNAGARH	5 MW	5	SOLAR		33 kV
4	JAY IRON & STEEL, BAMARA	1 MW	1	SOLAR		11 kV
5	J.K. PAPER LTD., THERUVALI	25 MW	25	BIOMASS		132 kV
6	M.G.M. GREEN ENERGY., CHANDPUR	1 MW	1	SOLAR		11 kV
7	MOLISATI VINIMAY PVT. LTD. BARKOTE	1 MW	1	SOLAR		11 kV
8	OCL SOLAR, SALIPUR	2.5 mw	2.5	SOLAR	SELF	132 kV
9	VIVACITY R.E PVT. LTD, CHANDPUR	1 MW	1	SOLAR		11 kV
10	RAAJRATNA ENERGY PVT. LTD. BOLANGIR (N)	1 MW	1	SOLAR		11 kV
11	S. N. MOHANTY, BARANGA, CHANDAKA	1 MW	1	SOLAR		11 kV
12	SHALIVAHAN GREEN ENERGY LTD.	20 MW	20	BIOMASS		132 kV
13	MAHAVIR FERRO ALLOYS (SOLAR), BANEI	1 MW	1	SOLAR		33 kV
14	MCL, BURLA, KATAPALI	2 MW	2	SOLAR	SELF	11 kV
15	ACME SOLAR, MURSING, BOLANGIR-SAINTALA	25 MW	25	SOLAR		132 kV
16	GEDCOL, MANMUNDA, SONEPUR	20 MW	20	SOLAR		33 kV
17	JYOTI SOLAR SOLUTIONS(P) LTD	10 MW	10	SOLAR		33 kV
18	SADIPALI SOLAR	20 MW	20	SOLAR		33 kV
19	BEL, SAINTALA	7.5 MW	7.5	SOLAR		132 kV
20	DAKSHIN ODISHA URGAL PVT. LTD, PADMAPUR	40 MW	40	SOLAR		132 kV
21	VENTO POWER& ENERGY LTD, Dendugoda, KESINGA	2x40 MW	80	SOLAR		132 kV
22	VENTO POWER& ENERGY LTD, Tusara	2x40 MW	80	SOLAR		132 kV
23	VENTO POWER& ENERGY LTD, Tentulikhunti	1x40 MW	40	SOLAR		132 kV
24	IMFA SOLAR, Theruvali	4.5	4.5	SOLAR	SELF	33 kV
25	ADITYA BIRLA RENEWABLES LTD, BOUDH	25 MW	25	SOLAR		
		TOTAL	419.5			
	GRAND TOTAL (SMALL HYDRO,IPP & CPP)		19275.05			

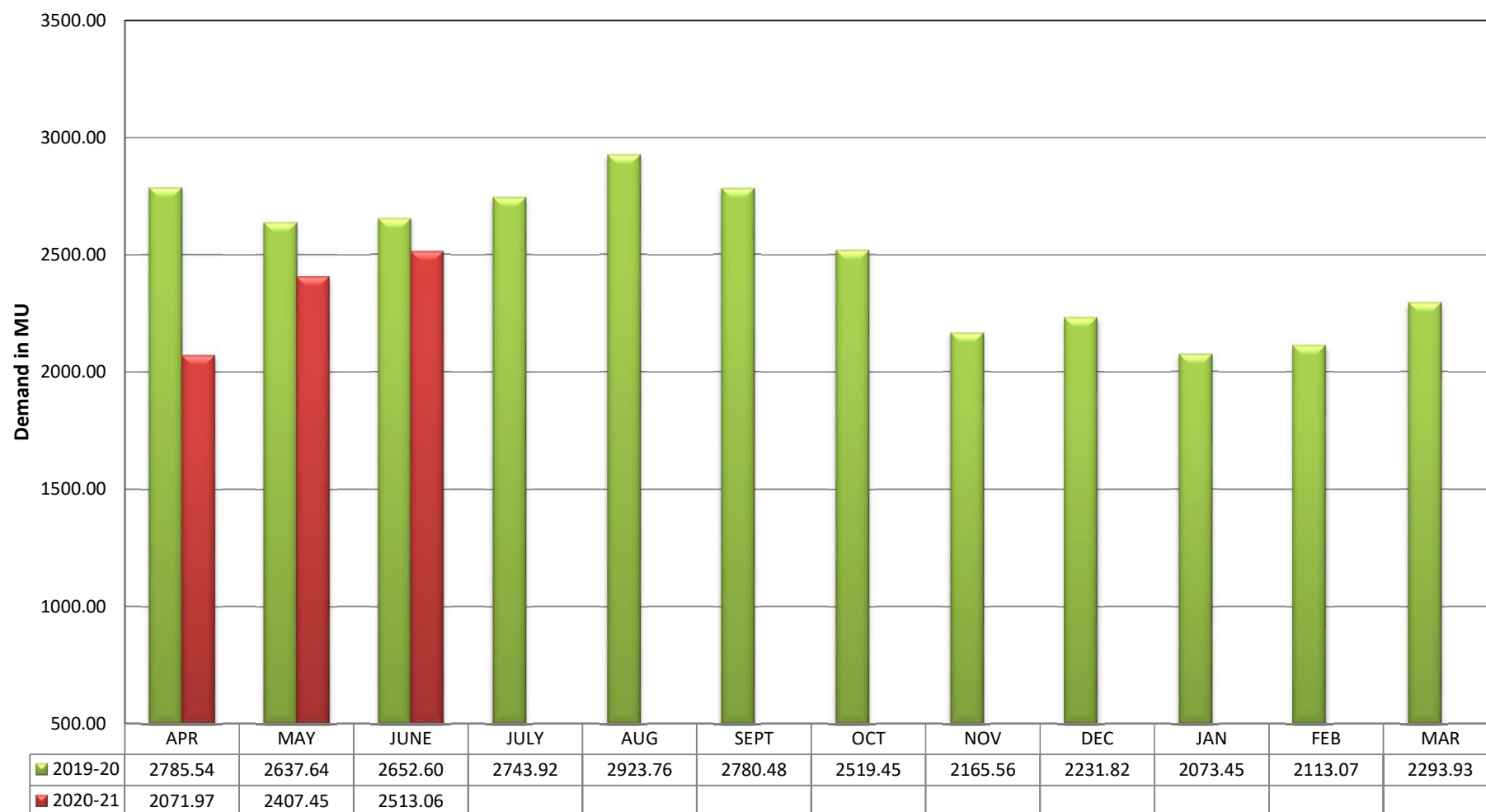


AVERAGE GRID DEMAND [HOURLY] FOR THE MONTH OF JUNE'2020

Average Demand=3490.36 MW



COMPARISON SYSTEM DEMAND WITH PREVIOUS FINANCIAL YEAR



MONTHLY GENERATION & DEMAND REPORT FOR THE STATE OF ODISHA IN THE MONTH OF JUNE- 2020

(A)SELF GENERATION

SL No.	Name of Gen. Station	Unit wise generation (MU)									Average MW	Auxiliary MU	Maximum Generation in MW	DATE	Time
		Unit-I	Unit-II	Unit-III	Unit-IV	Unit-V	Unit-VI	Unit-VII	Unit-VIII	Total					
1	Burla	0.000	27.060	16.442	17.926	0.000	0.000	0.000	0.000	61.428	85.317	0.242	0.25	25	23.00
2	Chipilima	11.978	11.513	7.980	-	-	-	-	-	31.471	43.710	0.109	51.26	5	14.00
4	Balimela	0.000	0.000	27.865	0.000	28.711	30.230	40.408	40.355	167.569	232.735	0.649	307.85	19	21.00
5	Rengali	14.658	15.121	13.072	2.234	15.090	-	-	-	60.176	83.578	0.027	178.10	8	15.00
6	Upper Kolab	24.801	26.721	0.000	22.211	-	-	-	-	73.733	102.407	0.111	228.07	1	23.00
7	Upper Indravati	31.198	48.929	34.883	25.272	-	-	-	-	140.281	194.835	3.346	599.21	28	21.00
8	Total Hydro (OHP)	-	-	-	-	-	-	-	-	534.658	742.581	-	-	-	-
9	Machhakund (Orissa drawal)	-	-	-	-	-	-	-	-	20.341	28.251	-	44.23	22	20.00
10	Total Hydro	-	-	-	-	-	-	-	-	554.999	770.832	-	1407.58	24	16.00
11	TTPS-I	40.885	41.795	40.490	42.255	-	-	-	-	165.425	229.757	-	227.87	9	18.00
12	TTPS-II	67.255	74.245	-	-	-	-	-	-	141.500	196.528	-	216.02	9	24.00
13	Total TTPS	-	-	-	-	-	-	-	-	306.925	426.285	34.120	440.71	9	19.00
14	IBTPS	123.16	104.596	-	-	-	-	-	-	227.753	316.324	26.313	1155.63	9.00	23.00
15	IBTPS-II	-	-	263.287	326.842	-	-	-	-	590.129	819.624	36.611	-	-	-
16	Total IBTPS	-	-	-	-	-	-	-	-	817.882	1135.947	-	-	-	-
17	IPPs & CGPs Support	-	-	-	-	-	-	-	-	632.819	878.916	-	-	-	-
18	Total Thermal & IPPs & CGP	-	-	-	-	-	-	-	-	1757.626	2441.148	-	2832.31	21	23.00
19	Injection by Renewable projects	53.38772	-	-	-	-	-	-	-	53.388	74.150	-	-	-	-
20	Total self generation	-	-	-	-	-	-	-	-	2366.013	3286.129	101.528	4062.41	24	16.00

Note: 1. All the figures stated above are taken from operational meters. Those figures should not be used for any commercial calculation.

(B) IPPs / CGPs injection :-

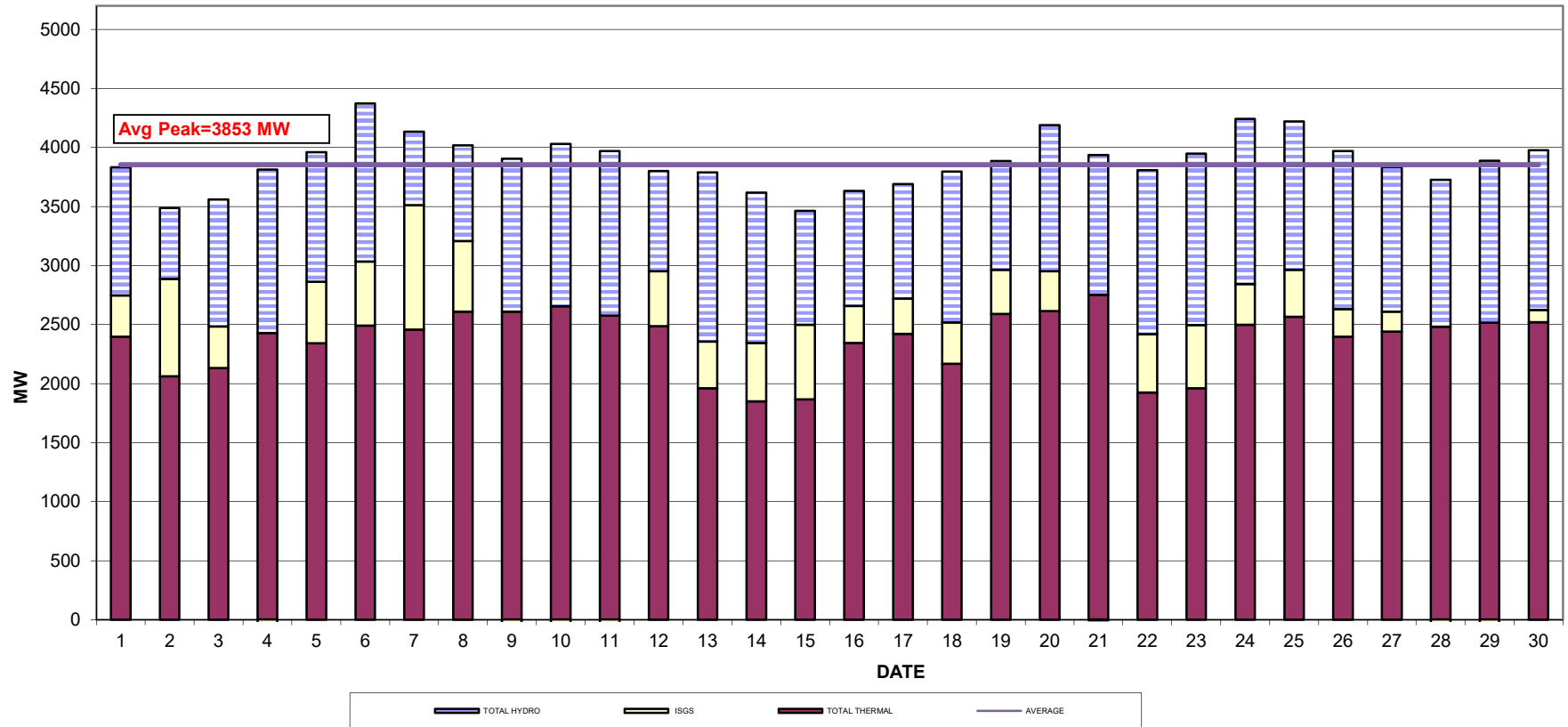
(C)EXCHANGE OF ENERGY WITH CENTRAL SECTOR

SL No.	Name of IPP / CGPs	Injection in (MU)	Average (MW)	Maximum Injection (MW)	DATE	TIME (Hr.)	Name of the Tie line		Net MU	Avg MW	Maximum Import (MW)	DATE	TIME	Maximum Export (MW)	DATE	TIME
1	Aarti Steel Ltd, ghantikhal	3.329	4.624	18.34	18	12.00	132KV JODA-KENDUPOSI		-12.04	-16.72	22.71	15	24.00	-28.85	15	6.00
2	ACC	0.000	0.000				132KV KALABADIA-BANGIRIPOSI		35.42	49.19	71.91	24	22.00	-55.73	8	24.00
3	Action Ispat	0.000	0.000				132KV KALABADIA-BARIPADA		18.44	25.61	38.05	9	23.00	-23.35	15	24.00
4	Aryan Ispat,	0.000	0.000				132 KV BHOGRAI-KUCHEI		9.25	12.84	28.51	3	16.00			
5	BPPL	70.875	18.708	119.36	30	1.00	132 KV JALESWAR-KUCHEI		12.55	17.43	29.96	29	22.00			
6	BPSL, Jharsuguda	13.470	18.708	154.37	29	12.00	220KV JODA-JAMSHEDPUR		-29.23	-40.60	47.16	15	24.00	-119.60	28	21.00
7	TSBSL, Meramundali	13.164	18.284	81.65	9	13.00	220KV JODA-RAMCHANDRAPUR		43.31	60.15	143.95	9	12.00	-71.70	8	24.00
8	GMR Kamalanga Energy Ltd (IPP)	143.800	199.722				220KV RENGALI SV- RENGALI P.G-I		13.77	19.13	99.49	12	2.00	-47.34	15	24.00
9	HINDALCO, Hirakud	2.534	3.520				220KV RENGALI SV- RENGALI P.G-II		13.91	19.32	78.90	19	1.00	-57.92	15	24.00
10	IFFCO, Paradeep	0.0000	0.000				220KV JAYANAGAR JEYPORE PG-I		-39.89	-55.40	35.21	8	24.00	-115.05	12	20.00
11	IMFA, Choudwar	17.024	23.644	41.88	27	22.00	220KV JAYANAGAR JEYPORE PG-II		-41.83	-58.10	37.49	8	24.00	-119.35	22	9.00
12	JINDAL, New Duburi	0.209	0.290	26.04	5	14.00	220KV RENGALI P.H-KANIHA		-32.38	-44.98	37.49	8	24.00	-116.73	13	24.00
13	JSPL, Angul	39.645	55.063	98.92	8	18.00	220KV TTPS-KANIHA		35.44	49.22	116.56	6	23.00	-74.94	15	24.00
14	Mahavir Ferro Alloys	0.000	0.000				220KV MERAMUNDALI-KANIHA-I		54.78	76.08	124.78	19	11.00	-78.38	15	24.00
15	Malithan Ispat Ltd.	0.000	0.000				220KV MERAMUNDALI-KANIHA-II		50.35	69.94	124.43	20	22.00	-78.38	15	24.00
16	Meenakshi Power Ltd. (SH)	14.105	19.590				220KV TARAKARA-BISRA-I & II		72.93	101.29	227.71	5	18.00	-108.62	8	24.00
17	MSP, Jharsuguda	0.000	0.000				220 KV KALABADIA-BALASORE-I&II		122.03	169.49	268.40	30	23.00	-151.09	15	24.00
18	NALCO, Angul	10.45	14.518	73.52	20	14.00	220KV KATAPALI- BOLANGIR(PG)		-40.79	-56.66	1.79	5	16.00	-117.98	20	11.00
19	Nartheram	0.068	0.094				220KV SADEIPALI - BOLANGIR(PG)		64.97	90.23	189.02	6	20.00	-88.67	2	14.00
20	NBVL, Kharag Prasad	5.287	7.343	30.26	8	17.00	220KV BUDHIPADAR-KORBA-I		-28.88	-40.11	96.67	15	24.00	-119.77	29	6.00
21	NINL, Duburi	0.000	0.000				220KV BUDHIPADAR-KORBA-II		44.59	61.93	117.19	17	13.00	-119.77	29	6.00
22	OCL	0.278	0.386				220KV BUDHIPADAR-KORBA-III		42.90	59.59	106.18	17	13.00	-63.90	8	24.00
23	OPCL, Samal (SH)	7.584	10.534				220KV ATRI- PANDIVIL		124.79	173.32	264.75	2	14.00	-56.72	8	24.00
24	PSAL, Keonjhar	0.000	0.000				220KVSAMANGHARA- PANDIVIL		0.00	0.00	0.00	1	1.00			
25	RSP, Rourkela	0.040	0.055				220KV KEONJIHAR 220KV KEONJIHAR		2.05	2.84	8.46	26	13.00			
26	Shree Ganesh	0.518	0.720				220KV KEONJIHAR 220KV KEONJIHAR		1.13	1.57	5.58	26	13.00			
27	Shyam Metalics	0.411	0.571				400KV INDRAVATI P.H-P.G		-29.88	-41.50	94.71	6	6.00	-244.21	5	23.00
28	SMC Power	0.020	0.028				400KV MERAMUNDALI-KANIHA		247.79	344.15	799.77	1	2.00	-603.17	15	24.00
29	TSPL	11.128	15.455				400KV MERAMUNDALI-ANGUL-I&II		-77.77	-108.01	158.00	8	24.00	-290.98	1	16.00
31	Vedanta Ltd. (IPP-Unit-2)	251.540	349.361				400KV MENDHASAL - PANDIABIL-I & II		-213.54	-296.58	2.89	8	24.00	-553.90	30	1.00
31	Vedanta, Jharsuguda	20.800	28.888				400KV DUBURI - PANDIABIL		90.58	125.81	371.02	29	22.00	-23.83	5	14.00
32	Vedanta, Lanjigarh	0.000	0.000				400KV DUBURI - BARIPADA		57.62	80.03	196.87	5	7.00	-74.99	8	24.00
33	VISA Steel, New-Duburi	0.859	1.192	7.69	6	16.00	400KV VEDANTA-JHARSUGUDA Ckt-I		-65.49	-90.95	124.47	7	11.00	-284.92	30	6.00
34	Yazdani Steel & Power Ltd., J.J Rd	0.000	0.000				400KV VEDANTA-JHARSUGUDA Ckt-II		-65.45	-90.90	124.53	7	11.00	-284.93	30	6.00
35	Vedanta Ltd. (3*600)	5.680	7.889				400KV OPGC-JHARS PG - I		-125.78	-174.69	2.71	2	13.00	-331.78	29	6.00
							400KV OPGC-JHARS PG - II		-125.03	-173.66	2.64	2	13.00	-331.64	29	6.00
	Total support from CPPs	632.819	878.916						230.61	320.30	1236.61	7	12.00	-331.78	29.00	6.00

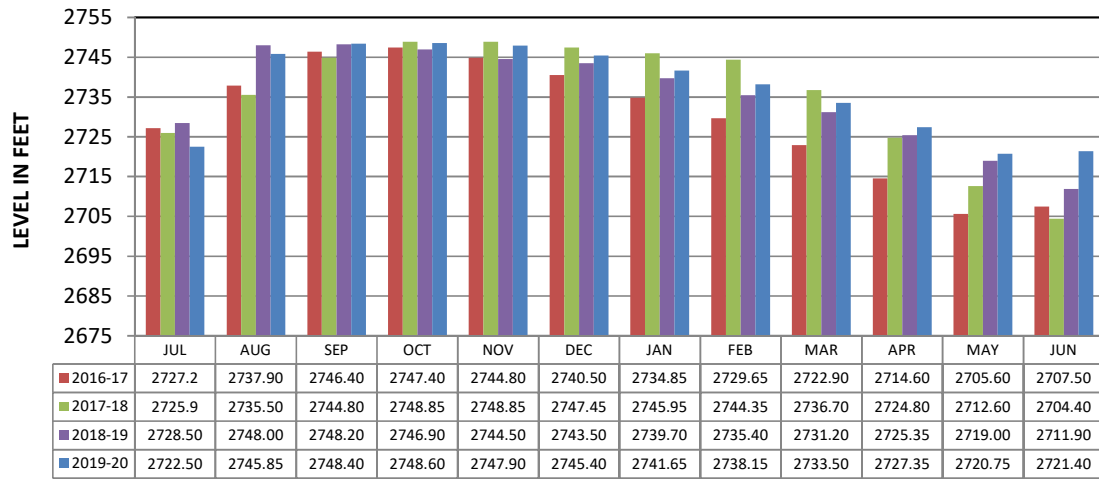
ABSTRACT OF SYSTEM DEMAND

Particulars	Energy MU	Average MW	Peak MW	DATE	TIME
Total gross generation(Including CPP+IPP)	2366.013	3286.129	3830.80	6	23.00
Power Station Auxiliary consumption	101.528	141.011			
Total net generation(Including CPP+IPP)	2264.485	3145.118	3118.12	6	23.00
Net ISGS	230.615	320.299	542.28	6	23.00
System Demand	2495.100	3465.417	4360.41	6	23.00
Trading					
Average of Peak Demand (MW)		3741.664			
Average of Minimum Demand (MW)		3024.997			

DAILY GENERATION SHARING DURING PEAK DEMAND DURING JUNE- 2020

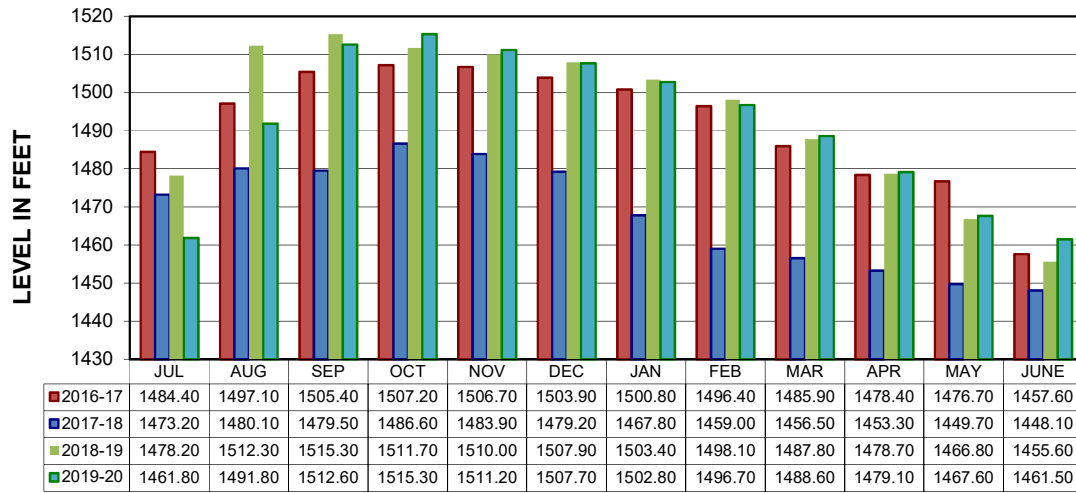


JOLAPUT RESERVOIR LEVEL



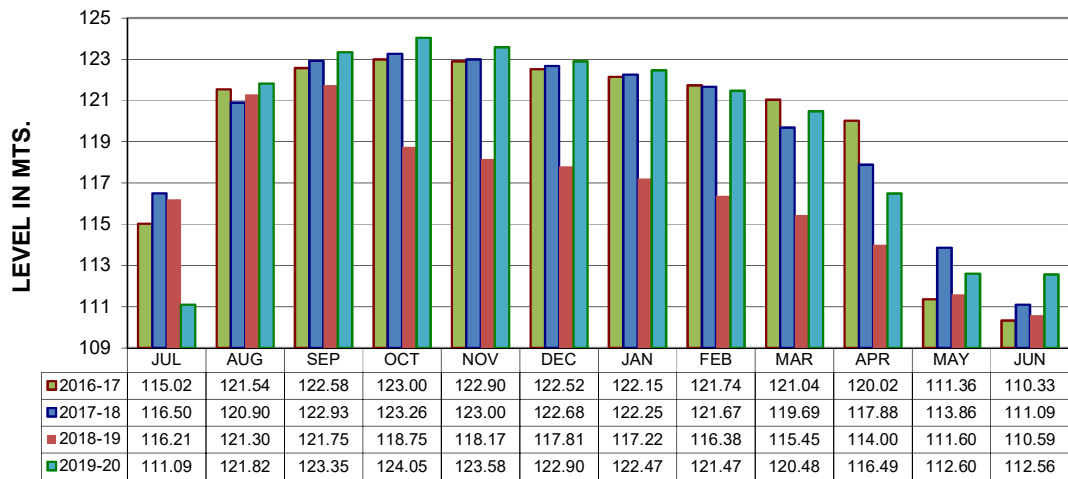
MONTH (End)

BALIMELA RESERVOIR LEVEL



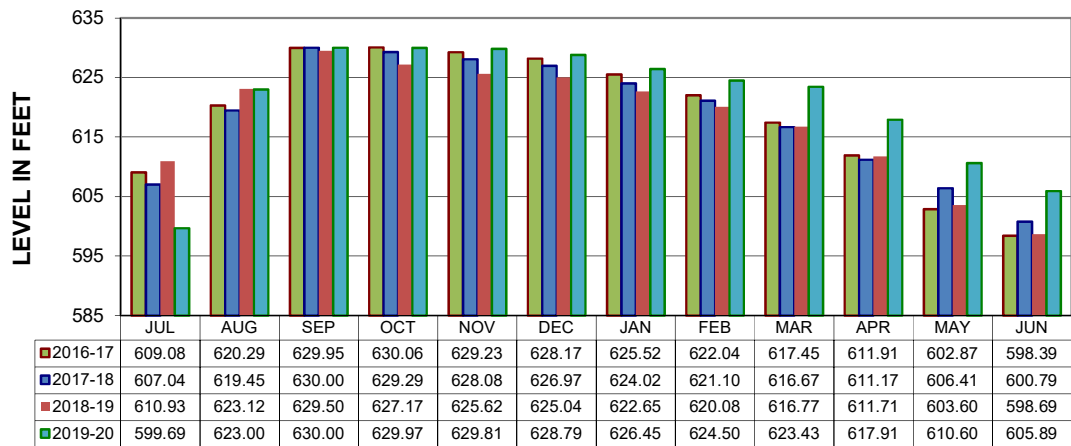
MONTH (End)

RENGALI RESERVOIR LEVEL



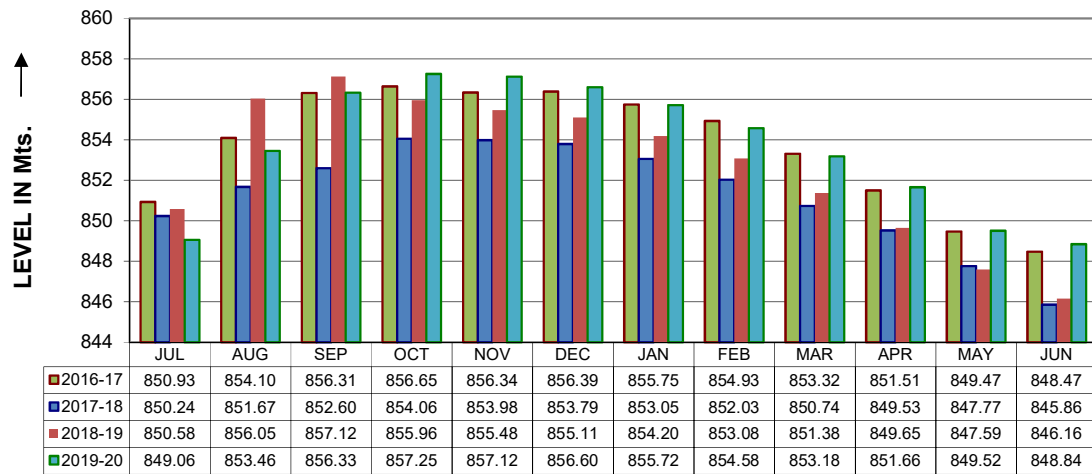
MONTH (End)

HIRAKUD RESERVOIR LEVEL



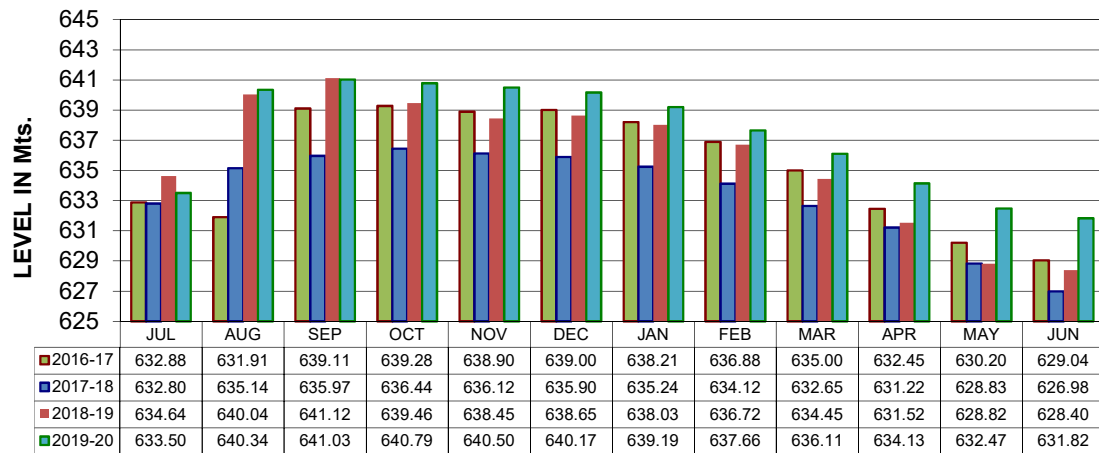
MONTH (End)

U.KOLAB RESERVOIR LEVEL



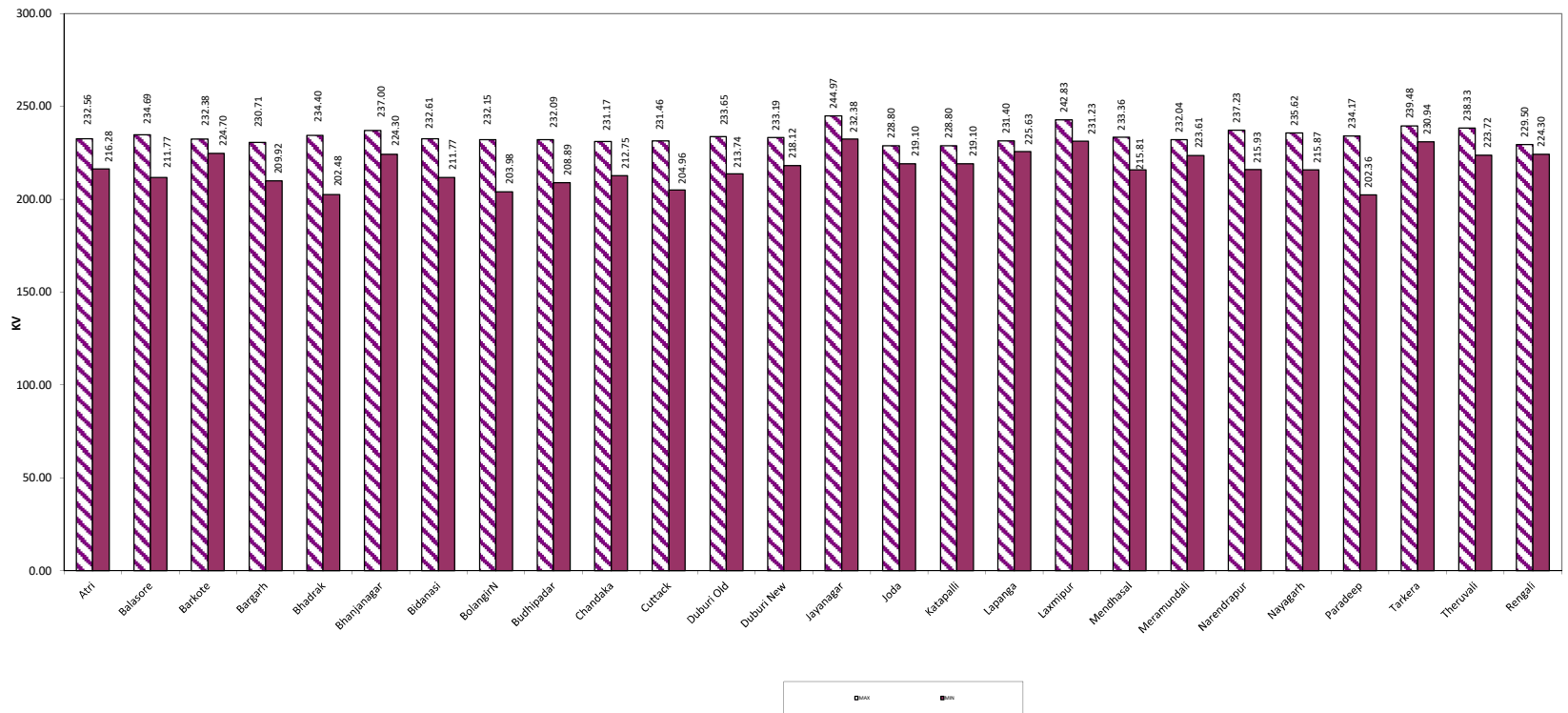
MONTH (End)

INDRAVATI RESERVOIR LEVEL



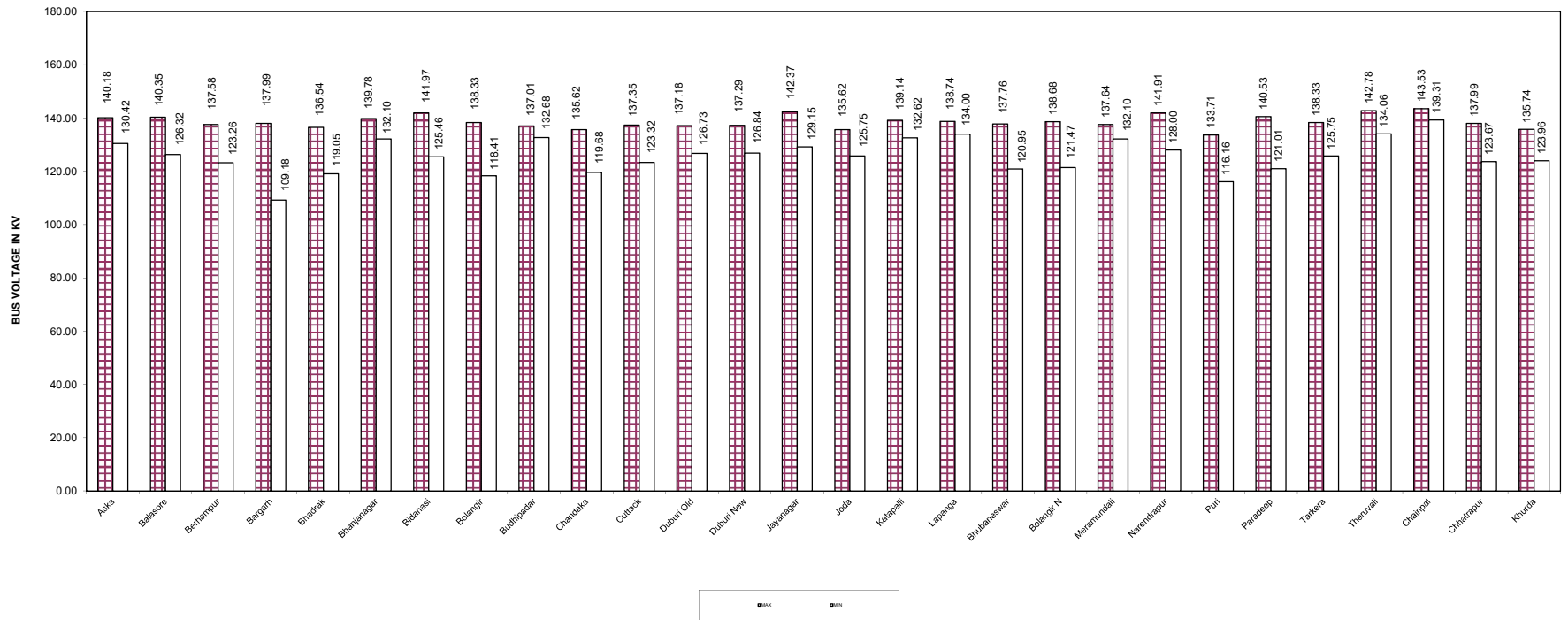
MONTH (End)

VOLTAGE PROFILE OF 220KV S/S FOR JUNE 2020

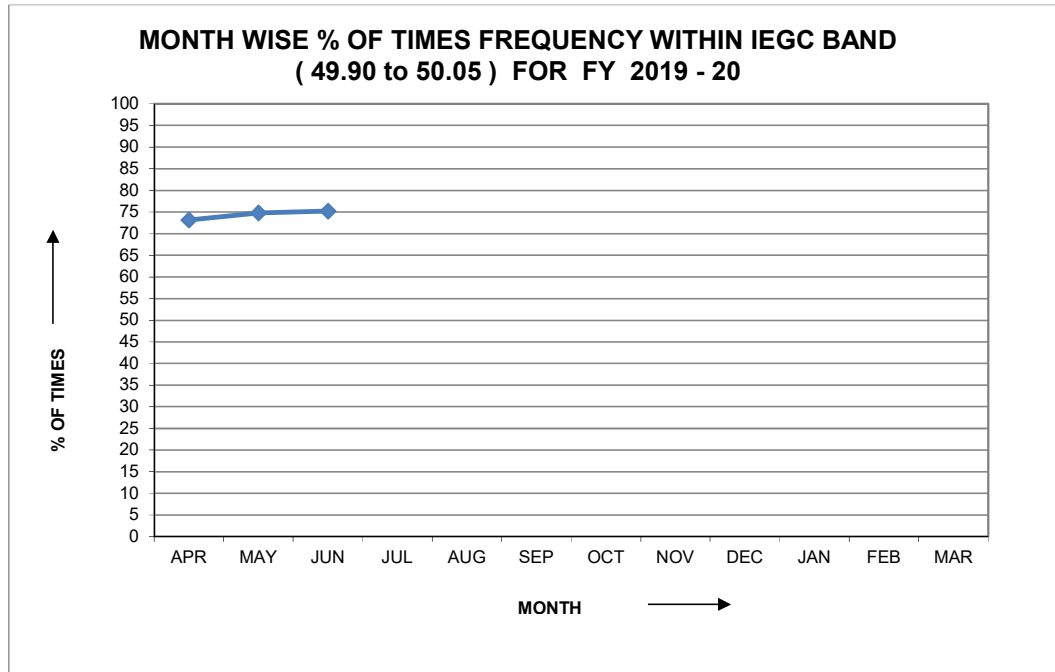


STATION	ATRI		BALASORE		BARKOTE		BARGARH(N)		BHADRAK		BHANJANAGAR		BIDANASI		BOLANGIR		BUDHIPADAR		CHANDAKA		CUTTACK		DUBURI		DUBURI (N)		JAYANAGAR		JODA		KATAPALI		LAPANGA		LAXMIPUR		MENDHASAL		MERAMUNDALI		NARENDRAPUR		NAYAGARH		PARADEEP		TARKERA		THERUVALI	
	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.
MAXM.	28	18:00	2	18:00	3	18:00	3	09:30	2	18:00	28	18:00	8	15:30	22	05:15	21	05:00	28	17:45	1	14:30	2	18:00	2	18:00	3	15:30	21	05:00	21	05:00	21	05:00	3	15:30	28	18:00	21	13:15	28	14:30	28	18:00	2	18:00	4	17:30	28	14:30
MINM.	5	15:30	29	21:45	25	15:30	5	15:45	18	11:45	25	15:15	5	15:00	5	15:30	12	10:15	5	15:00	3	12:15	30	22:00	6	22:45	10	12:45	10	17:00	10	17:00	10	17:00	24	22:30	5	15:00	6	22:45	25	12:15	5	12:45	30	22:00	24	19:45	24	22:45

VOLTAGE PROFILE OF 132KV S/S FOR JUNE- 2020



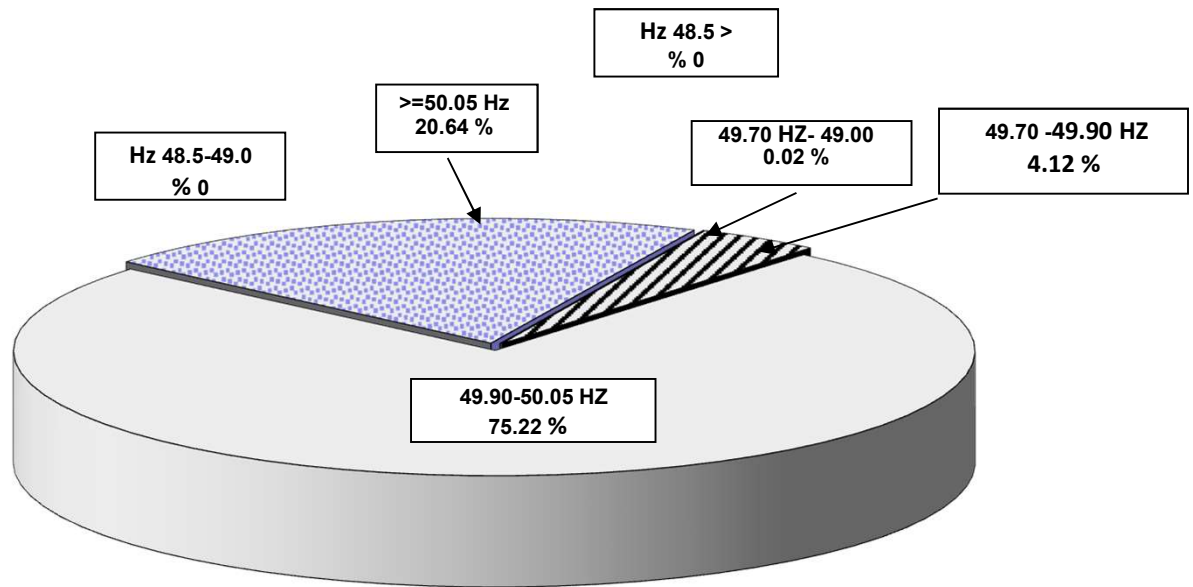
STN	CHATRAPUR		BALASORE		CHAINPAL		BARGARH (N)		BHADRAK		BHARGANAGAR		BIDANASI		BOLANGIR		BUDHIPADAR		CHANDAKA		CUTTACK		DUBURI		KHURDA		JAYANAGAR		JODA		KATAPALI		LAPANGA		MANCHESWAR		PURI		MERAMUNDALI		NARENDRAPUR		BERHAMPUR		PARADEEP		TARKERA		THERUVALI		Bhubaneswar			
	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.				
MAX	28	13:45	28	17:45	8	18:45	2	13:30	2	18:00	28	18:00	8	15:30	22	03:45	21	05:00	8	15:30	8	15:30	2	18:00	2	18:00	3	15:15	1	17:00	3	15:30	21	05:00	8	15:30	5	11:15	28	18:00	28	14:30	28	18:00	28	15:00	3	09:30	28	14:30	3	18:00		
MIN	25	15:15	29	21:45	4	12:30	20	15:45	29	20:30	24	22:45	5	15:00	5	11:45	10	16:45	5	14:30	5	14:30	6	22:45	6	22:45	29	11:15	6	23:15	10	16:45	10	17:00	5	14:30	10	17:00	5	15:30	28	18:00	28	14:30	12	17:45	30	22:00	5	15:30	24	22:45	11	22:45



**FREQUENCY WITHIN THE STANDARD BAND & ABOVE .
(FROM 2018-2019 TO 2020- 2021)**

YEAR	FREQUENCY	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MARCH	ANNUAL
2018- 2019	Average in Hz	49.98	49.91	49.94	49.98	49.97	49.97	49.95	49.95	49.98	49.98	49.99	50	49.97
	% of time (49.9 to 50.05 Hz)	78.33	69.25	71.44	72.04	72.12	75.23	74.06	79.04	76.66	69.48	67.21	70.28	72.93
	% of time (above 50.05 Hz)	11.30	12.17	20.13	21.02	22.54	16.97	18.17	12.49	11.54	20.23	26.87	21.39	17.90
2019- 2020	Average in Hz	50.01	50.00	50.00	50.01	50.00	50.01	50.01	50.02	50.02	50.00	50.00	50.01	50.01
	% of time (49.9 to 50.05 Hz)	68.12	73.28	69.873	67.57	71.69	74.71	75.24	67.77	64.3	73.28	71.28	69.24	70.53
	% of time (above 50.05 Hz)	25.37	17.85	20.03	25.39	20.92	20.64	21.79	28.63	30.07	20.62	22.17	25.39	23.24
2020- 2021	Average in Hz	50.01	50.01	50.01										50.01
	% of time (49.9 to 50.05 Hz)	73.16	74.78	75.22										74.39
	% of time (above 50.05 Hz)	22.06	21.33	20.64										21.34

MONTHLY FREQUENCY PROFILE FOR JUNE 2020



FREQUENCY DISTRIBUTION FOR THE MONTH OF JUNE - 2020 IN MINUTES (No of minutes during the month frequency remained)

Frequency/Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<48.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.5-49.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.00-49.7	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0
49.7-49.9	41	89	84	36	27	44	17	171	171	71	18	47	17	12	38
49.9-50.05	952	1048	1067	1179	935	1061	913	1106	1127	1102	1095	1144	1081	873	1095
>50.05	447	303	289	225	478	335	510	163	135	267	327	249	342	555	307
>=50.1Hz	87	74	86	49	95	107	163	15	15	67	38	20	74	115	35

Frequency/Day	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Total
<48.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.5-49.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.00-49.70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.7-49.90	33	43	21	42	58	10	93	139	157	28	13	50	43	90	78	30
49.9-50.05	1162	1160	1090	1095	979	778	1181	1207	1168	1201	1215	1087	1054	1147	1194	542
>50.05	245	237	329	303	403	652	166	94	115	211	212	303	343	203	168	149
>=50.10Hz	25	24	51	54	119	280	4	9	3	12	23	48	65	35	6	30

ENERGY DRAWAL OF CESU CONTROL AREA GRID SUBSTATIONS FOR THE MONTH OF JUNE'2020

Sl.No	Name of Sub Station	Name of Feeder	Installed Capacity	SMD	Average Drawal MW	MAX DEMAND		Time	
						MW	Date		
1	Angul	MCL Feeder-1&2	132 kV	24.200	20.289	30.040	1st Jun 2020	11:15	
		Angul	2x40+1x20=100	33.334	22.952	35.649	25th Jun 2020	22:30	
2	Angul PG	PGCIL Stn. Tertiary		0.166	0.184	0.166	1st Jun 2020	00:00	
		Arati Steel	132 kV	0.000	0.036	7.588	28th Jun 2020	17:15	
3	Angul	Angul	2x40+1x20=100	7.180	8.251	25.560	10th Jun 2020	10:15	
4	Badagada	Badagada	2x63=126	27.663	18.054	34.769	1st Jun 2020	00:15	
5	Balugaon	SOLARI Traction	132kV	2.080	2.489	8.920	22th Jun 2020	10:30	
		Balugaon	1x40+1x20+1x12.5=72	30.316	24.979	32.168	19th Jun 2020	20:15	
6	Banki	Banki	2x20=40	12.540	8.804	12.840	25th Jun 2020	22:15	
7	Bhubaneswar	Bhubaneswar	3x63=189	88.400	63.541	106.600	26th Jun 2020	14:45	
8	Bidanasi	Bidanasi	2x63+1x40=166	78.444	53.535	90.300	24th Jun 2020	15:15	
9	Boinda	Boinda Traction	132 kV	5.440	1.318	9.920	17th Jun 2020	22:45	
		Boinda	1x20+2x12.5=45	15.399	11.138	18.386	1st Jun 2020	10:00	
10	BPPL S/W	BPPL Fdr-I&II	132 kV	0.000	0.002	3.720	14th Jun 2020	13:30	
11	Chainpal	FCI Feeder	132 kV	0.440	0.358	0.520	24th Jun 2020	19:15	
		Talcher Rd. Trac.	132 kV	6.760	5.379	13.320	11th Jun 2020	22:45	
		Chainpal	2x40+1x20=100	50.208	33.958	54.016	7th Jun 2020	13:30	
12	Chandaka	Chandaka	3x63=189	88.161	67.942	101.234	9th Jun 2020	15:00	
13	Chandpur	Chandpur	2x12.5=25	13.076	10.128	13.763	23th Jun 2020	22:45	
14	Choudwar	Choudwar Traction	132 kV	6.240	6.338	17.080	6th Jun 2020	13:30	
		Choudwar	3x40=120	52.116	41.555	57.953	25th Jun 2020	11:00	
15	Cuttack	Cuttack	3x40=120	56.323	39.099	56.895	24th Jun 2020	22:45	
16	Dhenkanal	Joranda Trac.	132 kV	8.213	5.655	13.988	29th Jun 2020	11:45	
		Narveram CGP Fdr	33 kV	0.029	0.139	3.340	16th Jun 2020	06:45	
		Dhenkanal	3x40=120	46.998	33.597	47.431	25th Jun 2020	22:15	
17	Grid Steel Alloy S/W	GSAL Feeder	132kV	0.000	0.000	0.000	1st Jun 2020	00:00	
18	Hind Metalics	MGM Feeder	132kV	0.000	0.211	1.712	20th Jun 2020	15:45	
		NBVL Fdr-1&2	132kV	0.000	0.000	0.063	1st Jun 2020	12:15	
		SGEL Feeder	132kV	0.000	0.071	1.969	8th Jun 2020	06:00	
		Meramundali Trac.	132 kV	4.000	4.388	14.663	24th Jun 2020	00:00	
19	Infocity-II GIS	Infocity-II GIS (220/33)	2x40=80	16.840	10.339	18.320	30th Jun 2020	22:45	
20	Jagatsinghpur	Gorakhnatn Trac.	132 kV	5.800	7.925	13.788	9th Jun 2020	13:45	
		Jagatsinghpur	1x40+2x20=80	39.491	30.110	41.455	9th Jun 2020	22:30	
21	Kalarangi	Kalarangi	1x20+2x12.5=45	10.330	8.937	13.979	2nd Jun 2020	08:45	
22	Kamakhyanagar	Kamakhyanagar	1x20+2x12.5=45	17.304	14.414	19.508	19th Jun 2020	20:00	
23	Kendrapada	Kendrapada	2x40+1x12.5=92.5	35.120	25.851	37.240	9th Jun 2020	22:45	
24	Khairiakata	Khairiakata	2x40=80	7.976	4.825	8.168	25th Jun 2020	22:00	
25	Khuntuni GIS	Khuntuni GIS	2x40=80	6.120	3.127	7.000	4th Jun 2020	19:30	
26	Khurda	Kaipadar Trac.	132 kV	4.440	6.006	15.120	9th Jun 2020	14:45	
		Khurda	4x40=160	72.440	56.189	74.210	5th Jun 2020	22:45	
27	Konark	Konark	2x20=40	5.996	4.517	6.508	7th Jun 2020	21:45	
28	Mania	Mania	1x20+1x12.5=32.5	1.952	0.830	5.008	29th Jun 2020	22:15	
29	Marshaghai	Marshaghai	2x20=40	19.104	13.930	20.560	9th Jun 2020	22:30	
30	Mendhasal	Mendhasal(220/33)	2x20=40	2.212	1.602	2.272	19th Jun 2020	21:30	
31	Meramundali	BSL-TATA Fdr-1&2	220 kV	72.040	21.669	83.320	18th Jun 2020	16:00	
		BRG Feeder	132kV	0.360	0.303	0.440	18th Jun 2020	18:00	
		JSPL Feeder-1&2	400 kV	0.063	0.190	29.500	21th Jun 2020	09:30	
		RUNGTA Feeder	132kV	0.200	0.167	0.280	8th Jun 2020	18:15	
32	Narsinghpur	Narsinghpur(220/33)	1x40=40	5.160	3.413	5.860	27th Jun 2020	12:15	
33	Navagarh	Navagarh (220/33)	2x40+1x20=100	58.364	39.809	59.964	26th Jun 2020	22:45	
34	Nimapara	Nimapara	3x40=120	43.789	37.186	50.286	26th Jun 2020	21:45	
35	Nuapatana	Nuapatana	1x40+1x20+1x12.5=72	31.564	24.798	33.374	24th Jun 2020	09:15	
36	Olaver	Olaver	2x12.5=25	8.716	6.038	9.364	11th Jun 2020	21:45	
37	Pandiabil PG	PGCIL Stn. Tertiary		0.047	0.052	0.047	1st Jun 2020	00:00	
38	Paradeep	Essar Steel Fdr-1&2	220kV	0.000	0.003	3.938	29th Jun 2020	17:30	
		IFFCO Fdr-1&2	132kV	5.640	2.890	9.000	22th Jun 2020	20:30	
		IOCL Feeder	220kV	0.363	0.361	0.538	27th Jun 2020	18:00	
		PPL Fdr-1&2	132kV	9.560	11.123	13.120	6th Jun 2020	01:00	
		PPT Fdr-1&2	132kV	11.000	11.156	18.120	9th Jun 2020	20:45	
		Paradeep	3x20=60	19.121	15.753	22.125	25th Jun 2020	19:45	
39	Pattamundai	Pattamundai	2x20+1x12.5=52.5	29.309	21.516	30.265	27th Jun 2020	22:15	
40	Phulnakhara	Phulnakhara	1x40+2x20=80	32.636	25.119	33.753	9th Jun 2020	13:45	
41	Puri	Puri	3x40=120	34.328	25.269	40.370	22th Jun 2020	23:00	
42	Ranasinghpur	Ranasinghpur	3x63=189	89.868	59.574	93.965	24th Jun 2020	23:30	
43	Rengali PG	PGCIL Stn. Tertiary		0.045	0.050	0.045	1st Jun 2020	00:00	
44	Rengali S/W	Rengali S/W (220/33)	2x20=40	14.888	9.598	17.056	30th Jun 2020	21:15	
45	Salipur	OCL Feeder	132kV	7.116	6.386	9.403	28th Jun 2020	17:30	
		Salipur	3x20=60	30.649	22.984	31.835	6th Jun 2020	22:15	
46	Samangara	Samangara	2x20=40	6.812	6.641	17.796	1st Jun 2020	13:30	
47	Shamuka	Shamuka	2x31.5=63	20.840	15.461	28.080	13th Jun 2020	23:15	
48	Tirtol	Tirtol	2x40=80	12.000	8.670	12.480	9th Jun 2020	22:30	
49	TS Alloys S/W	RAWMET Feeder	132kV	22.644	22.192	25.113	18th Jun 2020	00:00	
50	Unit-8 GIS	Unit-8 GIS	1x40=40	20.080	12.094	25.280	24th Jun 2020	15:00	
		Balugaon	Khallikote Feeder	33kV	-12.036	-11.438	-17.328	14th Jun 2020	07:15
		Chandikhol	Badachana Feeder	33kV	13.581	11.573	17.369	27th Jun 2020	19:30
		Rairakhol	Bamur Feeder	33kV	2.820	1.933	3.576	24th Jun 2020	19:15
		Rengali	BUDHAPAL Feeder	33kV	1.295	0.752	1.712	8th Jun 2020	12:45
		Barkote	Pallhara Feeder	33kV	0.000	0.881	6.716	15th Jun 2020	20:00
		Chandaka	S.N. Mohanty(Solar)	11kV	0.000	0.109	0.616	29th Jun 2020	11:15
		Chandpur	MGM SOLAR	11kV	0.000	0.113	0.650	5th Jun 2020	11:30
		Chandpur	VIVACITY Solar	11kV	0.000	0.107	0.572	28th Jun 2020	11:30
CESU TOTAL ENERGY (MU)				1,495.7061	782.9917	1,816.2997			

ENERGY DRAWAL OF WESCO CONTROL AREA GRID SUBSTATIONS FOR THE MONTH OF JUNE'2020

SL.No	Name of Sub Station	Name of Feeder	Installed Capacity MVA	SMD MW	Average Drawal MW	MAX DEMAND		Time
						MW	Date	
1	Aryan-Viraj S/W	Arvan Ispat Feeder	132 kV	0.344	0.211	0.378	25th Jun 2020	19:15
		Arvan-Viraj	132 kV	0.172	0.162	0.588	25th Jun 2020	09:15
2	Bamra	Bamra Traction	132 kV	5.080	5.671	14.120	29th Jun 2020	15:30
3	Barapalli	Dunguripali Tr.	132kV	1.160	2.899	11.240	7th Jun 2020	02:15
		Barapalli	1x40+1x20=60	28.104	23.559	41.308	11th Jun 2020	08:45
4	Bargarh	ACC Feeder-1&2	132kV	0.320	0.563	3.240	30th Jun 2020	12:00
		Bargarh	3x40=120	69.551	52.449	80.144	28th Jun 2020	17:30
5	Bargarh (New)	Bargarh (New)	1x12.5=12.5	0.056	0.052	0.084	27th Jun 2020	23:45
6	Barkote	Barkote (220/33)	2x40=80	12.881	9.963	24.254	15th Jun 2020	20:00
7	Bhalulata	Bhalulata Traction	132 kV	1.960	2.940	14.960	3rd Jun 2020	03:45
8	Bhawanipatna	Bhawanipatna	2x12.5=25	13.834	11.073	16.247	5th Jun 2020	22:45
9	Bolangir PG	415V side Tertiary		0.050	0.056	0.050	1st Jun 2020	00:00
10	Bolangir	Bolangir	3x40=120	37.993	31.975	55.411	1st Jun 2020	16:45
11	Bolangir (New)	Bolangir (New)	1x40+1x12.5=52.5	4.880	3.085	13.200	27th Jun 2020	17:15
12	Bonai	Bonai(220/33)	2x20=40	12.700	8.338	13.760	24th Jun 2020	19:45
13	Brajarajnagar	Brajarajnagar	1x40+3x20=100	30.940	24.846	39.022	1st Jun 2020	00:15
14	Budhipadar	AAL Feeder-1&2	220 kV	0.240	0.416	7.360	26th Jun 2020	14:30
		Basundhara Fder	220 kV	2.313	1.943	3.156	11th Jun 2020	11:30
		BPSL Fder-1&2	220 kV	71.594	25.574	97.094	9th Jun 2020	21:15
		MCL Fder-1&2	132 kV	19.991	14.598	21.991	27th Jun 2020	19:45
		MSP Feeder	132 kV	0.000	0.000	0.000	1st Jun 2020	00:00
		SPS(CONCAST) Fdr	220 kV	0.000	0.000	0.000	1st Jun 2020	00:00
		Budhipadar	1x20+1x12.5=32.5	7.781	6.979	15.538	24th Jun 2020	10:45
		Vedanta Ltd	220 kV	0.000	1.627	9.360	8th Jun 2020	15:30
15	Burla P.H.	Island & Incomer	11 kV	0.028	0.043	0.009	3th Jun 2020	04:45
16	Chandiposh	Chandiposh Trac	220 kV	3.080	3.024	12.080	27th Jun 2020	17:00
17	Chend	Adhunik Metallic Fdr.	132 kV	0.000	0.000	0.000	1st Jun 2020	00:00
		Nuagaon Trac.	132 kV	2.080	1.323	8.880	2nd Jun 2020	22:30
		Sri Ganesh Metallics	132 kV	0.381	1.654	3.863	29th Jun 2020	09:30
		Chend	3x40=120	61.919	51.669	73.931	9th Jun 2020	22:45
18	Chipilima P.H.	Chipilima P.H.	1x20+1x12.5=32.5	21.213	15.955	23.581	24th Jun 2020	19:30
19	Ghens	Ghens	1x40=40	7.600	6.240	18.760	15th Jun 2020	16:30
20	Jayapatna	Megalift Feeder-I & II	132 kV	0.040	0.088	7.800	20th Jun 2020	19:15
21	Jharsuguda	Jharsugda Trac.	132 kV	19.856	11.071	20.800	2nd Jun 2020	14:30
		Jharsuguda	2x40=80	21.240	17.233	25.440	6th Jun 2020	22:15
		Ultratech Feeder	132kV	11.292	9.488	12.712	28th Jun 2020	22:30
22	Junagarah	Junagarah	3x20=60	16.772	19.888	33.148	26th Jun 2020	21:30
23	Kalunga	Kalunga	2x40=80	41.520	41.497	51.320	18th Jun 2020	12:45
		Mahavir Ferro CGP	33 kV	0.000	0.000	0.000	1st Jun 2020	00:00
24	Kantabanji	Kantabanji Trac.	132 kV	1.680	1.706	9.320	4th Jun 2020	10:45
		Kantabanji	2x40=80	9.320	7.361	10.760	11th Jun 2020	16:45
	Katapali	HINDALCO Fdr-1&2	220 kV	20.304	6.603	7.294	1st Jun 2020	00:00
		Katapali	1x40+2x20=80	31.906	27.287	39.474	10th Jun 2020	16:30
26	Kesinga	POWMEX Fdr	132 kV	0.492	0.198	1.567	30th Jun 2020	18:00
		Kesinga Traction	132 kV	1.360	2.335	11.920	25th Jun 2020	14:15
		Kesinga	1x40+2x20=80	38.603	25.019	41.650	26th Jun 2020	21:00
27	Khariar	Khariar	2x40=80	31.400	22.455	33.600	6th Jun 2020	16:15
28	Kuchinda	Kuchinda	2x20=40	13.925	9.014	16.772	12th Jun 2020	21:30
29	Lapanga	Rengali Traction	132KV	7.640	4.313	14.280	12th Jun 2020	01:45
		Lapanga	1x20=20	7.980	6.812	9.876	8th Jun 2020	22:15
30	Nuapada	Nuapada Trac.	132 kV	0.000	0.000	9.876	8th Jun 2020	22:15
		Nuapada	2x20=40	9.232	7.482	0.000	1st Jun 2020	00:00
31	OPGC S/W Stn.	BGR Energy Ltd. Fdr	33 kV	0.027	0.030	0.027	1st Jun 2020	00:00
32	Padampur	Padampur	1x40+2x20=80	18.057	14.383	22.713	1st Jun 2020	16:30
33	Patnagarh	Patnagarh	1x40+2x20=80	20.949	15.848	28.126	8th Jun 2020	16:15
34	Rairakhhol	Rairakhhol Trac.	132kV	0.920	1.457	7.160	12th Jun 2020	05:30
		Rairakhhol	3x12.5=37.5	8.900	5.892	9.192	24th Jun 2020	20:30
35	Rajgangpur	OCL Feeder	132kV	2.680	1.552	17.080	18th Jun 2020	04:30
		OISL Feeder	132kV	0.000	0.000	0.000	1st Jun 2020	00:00
		Rajgangpur Trac-1&2	132 kV	2.960	2.703	7.400	9th Jun 2020	07:45
		Rajgangpur	3x40=120	60.800	49.778	68.600	5th Jun 2020	21:00
36	Rourkela PG	PG Tertiary		0.082	0.091	0.008	1st Jun 2020	00:00
		Rourkela Trac Tfr	1x12.5=12.5	7.080	5.057	10.760	30th Jun 2020	14:00
37	Rourkela	Rourkela	1x40+3x35=145	48.840	42.264	55.080	8th Jun 2020	15:00
38	Saintala	ORDNANCE Feeder	132 kV	1.440	1.712	3.960	29th Jun 2020	10:00
39	Sambalpur	Sambalpur	1x40+2x31.5=103	65.439	52.790	76.941	1st Jun 2020	16:15
		Shvam DRI Feeder	132 kV	3.725	4.137	9.600	8th Jun 2020	04:30
40	SMC S/W	SMC Power	132kV	1.188	8.666	14.163	15th Jun 2020	03:00
41	Sonepur	Sonepur	2x40+1x20=100	44.882	28.686	44.882	24th Jun 2020	20:15
42	Sundargarah PG	PG TERTIARY	33 kV	0.158	0.175	0.158	1st Jun 2020	00:00
43	Sundargarah	Sundargarah	1x40+2x20=80	25.488	19.472	32.419	12th Jun 2020	22:15
44	Tarkera	RSP Feeder-1&2	220 kV	155.781	62.338	175.938	27th Jun 2020	19:30
		RSP Feeder-3&4	220 kV	2.400	2.571	6.000	30th Jun 2020	16:00
45	Tusura	Tusura	1x40+1x20=60	12.144	9.779	18.508	27th Jun 2020	16:45
46	VAL Lanjigarh	Vedanta Al. fder-1&2	132 kV	0.000	0.050	3.613	28th Jun 2020	07:45
47	Vedanta S/W	Vedanta SEZ	400 kV	314.282	58.373	382.186	28th Jun 2020	07:45
	Barkote	Pallhara Feeder	33kV	-2.059	-0.910	6.142	15th Jun 2020	20:00

Joda	Joda-Tensa Feeder	33 kV	0.000	4.488	8.340	1st Jun 2020	00:00
Rairakhol	Bamur Feeder	33 kV	-3.340	-1.963	-3.576	24th Jun 2020	19:15
Rengali	BUDHAPAL Feeder	33kV	0.932	0.750	1.780	8th Jun 2020	12:45
Sonepur	Manamunda Feeder	33 kV	-11.088	-6.864	-11.792	1st Jun 2020	15:45
Tentulikhunti	Mukhiguda Fdr	33KV	1.936	1.475	2.077	2nd Jun 2020	14:45
ACME SOLAR	ACME SOLAR	132 kV	0.060	0.030	0.112	8th Jun 2020	18:00
Bamra	Joy Iron Steel (Solar)	11 kV	0.000	0.073	0.448	24th Jun 2020	12:15
Barkote	Molisati Solar	11 kV	0.000	0.084	0.474	13th Jun 2020	10:45
Kesinga	SADIPALI Solar	33kV	0.000	4.051	20.920	23th Jun 2020	11:15
Kesinga	Vento Power Solar -1	132 kV	0.080	0.039	0.160	19th Jun 2020	17:30
Kesinga	Vento Power Solar -2	132 kV	0.040	0.020	0.080	3rd Jun 2020	18:30
Bonei	Mahavir Solar	33 kV	0.000	0.095	0.651	11th Jun 2020	12:00
Padampur	Dakshin UPL solar	132kV	0.080	0.042	0.160	2nd Jun 2020	18:45
Patnagarh	ALEX Solar Pvt. Ltd.	33 kV	0.000	0.000	0.000	1st Jun 2020	00:00
Patnagarh	JYOTI Solar	33 kV	0.000	1.757	9.796	3rd Jun 2020	11:45
Bolangir (New)	REHPL(Solar)	11kV	0.000	0.123	0.699	11th Jun 2020	12:00
Saintala	BEL-OFBL Solar	132kV	0.028	0.014	0.040	21th Jun 2020	01:15
Sonepur	GEDCOL Solar	33 kV	0.000	2.658	13.764	29th Jun 2020	12:15
Sonepur	ABACUS Holdings	11 kV	0.234	0.136	0.783	3rd Jun 2020	11:15
Tusura	Vento Power Solar-I	132 kV	0.080	0.035	0.120	1st Jun 2020	18:30
Tusura	Vento Power Solar-II	132 kV	0.040	0.026	0.080	1st Jun 2020	00:15
	WESCO TOTAL ENERGY (MU)		1,488.0495	922.7009	1,459.4304		

ENERGY DRAWAL OF NESCO CONTROL AREA GRID SUBSTATIONS FOR THE MONTH OF JUNE'2020								
Sl.No	Name of Sub Station	Name of Feeder	Installed Capacity MVA	SMD MW	Average Drawal MW	MAX DEMAND		Time
						MW	Date	
1	Agarpada	Agarpada	1x40=40	1.960	1.419	2.400	6th Jun 2020	21:45
2	Anandpur	Anandpur	1x20+2x12.5=45	19.804	14.134	21.228	30th Jun 2020	21:15
3	Arva Ispat S/w	ARYA Steel Fdr	132kV	7.084	6.251	8.620	16th Jun 2020	07:15
		BRPL Feeder	132kV	15.850	14.918	10.880	12th Jun 2020	18:45
		IMTCPL Fder	132kV	0.000	0.000	0.000	1st Jun 2020	00:00
4	Balasore	BIRLA Tyre Fder	132kV	0.452	1.851	7.572	8th Jun 2020	23:15
		ISPAT Feeder	132kV	0.000	0.578	46.753	1st Jun 2020	00:00
		Balasore Traction	132kV	4.280	4.908	14.680	6th Jun 2020	10:45
		Balasore	2x63+1x40=166	81.754	62.032	84.670	30th Jun 2020	22:45
5	Bangiriposi	Bangiriposi	2x12.5=25	12.216	8.238	12.672	25th Jun 2020	21:45
6	Barbil	Barbil	2x12.5=25	10.595	9.145	11.614	8th Jun 2020	20:45
7	Baripada PG	Baripada PG Stn.		0.086	0.095	0.086	1st Jun 2020	00:00
8	Baripada	Baripada	3x40=120	37.413	24.732	37.633	9th Jun 2020	22:15
9	Basta	Basta	2x20+1x12.5=52.5	22.849	15.570	23.977	8th Jun 2020	21:15
10	BC Mohanty S/w	Bamnipal(New) Fdr	132kV	14.200	17.650	23.040	8th Jun 2020	12:15
		BC Mohanty fdr	132 kV	4.288	4.215	4.688	26th Jun 2020	03:30
		TOMKA Traction	132kV	1.240	3.078	13.840	14th Jun 2020	03:30
11	Betanati	Betanati	1x20=20	10.588	7.658	13.504	11th Jun 2020	11:00
12	Bhadrak	Dhamra Port (Trac.)	132 kV	2.325	2.698	7.281	20th Jun 2020	11:45
		Dhamra Port Fder	132 kV	5.113	6.086	14.131	22th Jun 2020	09:00
		FACOR Feeder	132kV	0.000	0.003	8.360	5th Jun 2020	09:30
		FACOR Power	132kV	0.000	0.003	0.480	8th Jun 2020	15:45
		Bhadrak Traction	132 kV	5.560	5.346	14.640	2nd Jun 2020	12:15
		Bhadrak	2x63+1x40=166	83.760	56.111	84.280	19th Jun 2020	22:30
		Bhograi	2x40=80	14.440	8.794	14.740	13th Jun 2020	21:15
14	Bolani	Bolani(132/11)	2x10=20	1.944	2.115	4.188	25th Jun 2020	10:00
15	BRPL S/w	BRPL Feeder	132kV	15.850	14.918	17.869	30th Jun 2020	19:00
		Mesco Feeder	132kV	0.006	0.001	0.025	1st Jun 2020	14:45
16	Chandabali GIS	Chandabali GIS	1x40=40	4.000	5.137	10.800	10th Jun 2020	22:45
17	Chandikhol	Chandikhol	3x20=60	34.631	29.211	40.000	6th Jun 2020	11:00
18	Dhenkikote	Dhenkikote	1x20=20	4.336	2.890	5.008	6th Jun 2020	22:15
19	Duburi	Jakhapura Traction	132 kV	5.200	8.250	16.400	4th Jun 2020	14:15
		JFAL Feeder	132 kV	0.000	0.000	0.000	1st Jun 2020	00:00
		Mishrilal Feeder	132 kV	6.644	6.156	7.194	12th Jun 2020	05:45
		NINL Feeder	220 kV	1.650	1.617	1.913	8th Jun 2020	12:45
		Duburi(220/33)	2x40=80	19.263	14.795	22.405	30th Jun 2020	19:45
		Emami Feeder	220 kV	10.120	3.358	11.280	11th Jun 2020	20:30
20	Duburi-New	Jindal Stainless-1&2	220 kV	80.920	53.934	98.440	17th Jun 2020	01:15
		Maithan Feeder	220 kV	0.000	0.000	0.000	1st Jun 2020	00:00
		Rohit Ferrotech	220 kV	19.520	19.680	28.120	9th Jun 2020	20:45
		TATA Steel Fdr-1&2	220 kV	7.240	6.134	110.000	27th Jun 2020	00:00
		VISA Steel	220 kV	0.000	0.529	6.960	4th Jun 2020	21:45
		Jaganath Steel Fdr	132kV	0.059	1.077	4.781	22th Jun 2020	19:00
		Jajpur Road	3x40=120	40.080	32.567	45.560	29th Jun 2020	19:30
21	Jajpur Road	Yazdani CGP Feeder	33 kV	0.309	0.121	0.763	15th Jun 2020	05:45
		Jajpur Town	2x40+1x20=100	46.948	35.928	49.313	5th Jun 2020	21:45
23	Jaleswar	Jaleswar Trac.	132 kV	0.680	4.603	13.800	28th Jun 2020	14:15
		Jaleswar	2x31.5+1x12.5=75.5	23.740	15.218	24.452	25th Jun 2020	22:00
24	Joda	Bansapani Trac.	132 kV	6.919	6.106	15.944	11th Jun 2020	02:15
		FAP Feeder	132kV	15.231	14.363	15.938	28th Jun 2020	01:45
		JSPL Trf-	2x50+1x20=120	53.273	48.210	58.518	21th Jun 2020	20:00
		TATA STEEL	220kV	7.240	6.134	8.560	11th Jun 2020	19:00
		TATA Steel Long	220 kV	0.000	0.000	0.040	9th Jun 2020	10:15
		Joda	1x40+3x20=100	15.984	12.679	21.611	26th Jun 2020	19:30
		Sarada Ind (220/33)	1x15=15	1.680	3.192	7.160	30th Jun 2020	19:30
25	JSW Cement S/W	JSW Cement Fdr	132kV	3.560	2.638	6.680	3rd Jun 2020	15:00
26	Karaniia	Karaniia	1x20+2x12.5=45	17.859	11.062	18.816	25th Jun 2020	19:45
27	Keonjhar GIS	Keonjhar GIS	2x20=40	11.492	5.813	17.764	26th Jun 2020	12:00
28	Keonjhar PG	PGCIL Stn. Tertiary		0.180	0.200	0.180	1st Jun 2020	00:00
29	Nalda	Nalda Traction	132 kV	3.920	2.164	12.640	25th Jun 2020	12:30
30	Polasponga	ESIL Feeder	132 kV	14.356	11.770	22.425	11th Jun 2020	16:30
		MSP Feeder	132 kV	10.388	10.606	13.508	18th Jun 2020	20:30
		OSISL CGP Feeder	33 kV	0.000	0.000	0.000	1st Jun 2020	00:00
		Patnaik Steel CGP	33 kV	0.000	0.000	0.000	1st Jun 2020	00:00
		Palasponga Trac.	132 kV	1.163	6.527	20.013	25th Jun 2020	08:30
		Polasponga	1x40+2x20=80	25.084	19.670	32.908	1st Jun 2020	00:00
31	Rairangpur	Rairangpur	2x20+1x12.5=52.5	19.878	14.093	22.091	29th Jun 2020	20:45
32	Somnathpur	IMAMI Feeder	132 kV	0.019	0.136	3.500	29th Jun 2020	18:45
		Stork Feeder	132 kV	7.659	3.363	10.394	25th Jun 2020	13:15
		Somnathpur	2x12.5=25	3.008	2.738	5.112	12th Jun 2020	17:30
33	Soro	Soro	1x40+2x20=80	53.579	36.011	55.185	19th Jun 2020	22:00
34	Udala	Udala	1x40=40	14.560	8.925	14.960	25th Jun 2020	22:00
	Chandikhol	Badachana Fder	33kV	-13.813	-11.573	-17.369	27th Jun 2020	19:30
	Joda	Joda-Tensa Fdr	33 kV	-6.084	-4.348	-9.080	26th Jun 2020	19:30
		NESCO TOTAL ENERGY (MU)		946.1298	535.8449	1358.4721		

ENERGY DRAWAL OF SOUTHCO CONTROL AREA GRID SUBSTATIONS FOR THE MONTH OF JUNE'2020								
Sl.No	Name of Sub Station	Name of Feeder	Installed Capacity MVA	SMD MW	Average Drawal MW	MAX DEMAND		Time
						MW	Date	
1	Akhusingi	Akhusingi	2x12.5=25	12.194	9.181	13.174	24th Jun 2020	22:15
2	Aska	Aska	4x40=160	60.480	44.147	68.600	17th Jun 2020	07:15
3	Balimela	Balimela (220/33)	1x40+1x20=60	12.820	8.797	13.040	28th Jun 2020	21:00
4	Berhampur	Berhampur	2x40+1x20=100	40.988	39.002	56.272	5th Jun 2020	23:15
5	Bhanjanagar	Bhanjanagar	2x40+1x16=96	30.231	22.310	30.933	19th Jun 2020	19:45
6	Boudh	Boudh	2x20=40	9.196	4.468	9.876	1st Jun 2020	00:00
7	Chatrapur	IRE Feeder-1&2	132kV	6.253	6.192	8.734	4th Jun 2020	20:15
		Rambha Traction	132 kV	4.000	3.316	10.160	7th Jun 2020	07:45
		Chatrapur	3x20=60	18.853	15.779	24.580	20th Jun 2020	07:45
8	Chikiti	Chikiti	1x40=40	9.560	8.438	11.320	1st Jun 2020	19:15
9	Dabugaon	Dabugaon	2x12.5=25	6.548	7.136	13.824	29th Jun 2020	18:45
10	Digapahandi	Digapahandi	2x20+1x12.5=52.5	23.322	18.276	26.800	17th Jun 2020	07:30
11	Ganjam	GRASIM Ind. Ltd.	132kV	15.150	13.717	15.588	17th Jun 2020	09:45
		Ganjam	2x12.5=25	6.808	5.696	16.504	1st Jun 2020	07:45
12	Jaypur PG	Jaypur PG Ter.	28KV	0.079	0.088	0.079	1st Jun 2020	00:00
13	Jayanagar	Jaypur Trac.	132 kV	17.040	7.269	26.600	28th Jun 2020	22:00
		Jayanagar	2x20+1x12.5=52.5	31.633	19.660	31.633	26th Jun 2020	19:30
14	Laxmipur	Laxmipur	1x20=20	6.692	4.434	8.220	6th Jun 2020	19:15
		Utkal Alumina Fdr-I&II	220kV	0.200	0.301	1.160	21th Jun 2020	22:30
15	Malkangiri	Malkangiri (220/33)	2x40=80	14.325	10.909	16.357	7th Jun 2020	22:30
16	Meenakshi s/w	Megalift Feeder	33kV	0.000	0.016	0.429	25th Jun 2020	11:00
17	Mohana	Mohana	2x12.5=25	7.012	4.171	7.088	26th Jun 2020	19:45
18	Muniguda	Bissam-Cuttack Tr	132 kV	0.240	2.784	16.920	5th Jun 2020	00:15
19	Narendrapur	TATA Feeder-I&II	220 KV	0.000	0.000	0.000	1st Jun 2020	00:00
		Narendrapur Trac	132 kV	5.520	3.373	11.360	3rd Jun 2020	14:15
		Narendrapur	3x40+1x20=140	26.600	24.779	36.564	5th Jun 2020	23:00
20	Paralakhemendi	Paralakhemendi	3x12.5=37.5	13.132	11.185	21.232	23th Jun 2020	21:45
21	Phulbani	Phulbani	2x40+1x12.5=92.5	24.348	15.287	25.328	5th Jun 2020	20:00
22	Podagada	Podagada	1x12.5=12.5	1.832	1.082	2.392	24th Jun 2020	06:45
23	Potangi	Potangi	1x40=40	4.832	3.013	4.972	25th Jun 2020	19:15
24	Purushottampur	Purushottampur	1x20+2x12.5=45	13.330	11.844	21.022	9th Jun 2020	15:30
25	Rayagada	Rayagada Trac.	132 kV	7.160	2.485	13.800	8th Jun 2020	14:45
		Rayagada	2x12.5=25	7.668	6.139	12.212	27th Jun 2020	11:30
26	Sunabeda	HAL Feeder	132kV	9.736	5.709	11.704	15th Jun 2020	08:45
		Sunabeda	1x20+2x12.5=45	16.916	13.792	22.180	23th Jun 2020	07:45
27	Tentulikhunti	Tentulikhunti	3x20=60	12.848	9.887	15.165	22th Jun 2020	10:30
28	Therubali	JK Feeder	132kV	0.000	0.000	0.124	11th Jun 2020	11:30
		Therubali	2x12.5=25	12.432	8.108	12.596	26th Jun 2020	19:45
29	Umerkote	Umerkote	2x20=40	16.580	11.085	18.768	6th Jun 2020	19:45
	Balugaon	Khallikote Feeder	33kV	14.160	11.662	17.328	14th Jun 2020	07:15
	Sonepur	Manamunda Feeder	33kV	8.336	6.646	11.792	1st Jun 2020	15:45
	Tentulikhunti	Mukhiguda Fdr	33KV	-2.244	-1.442	-2.248	26th Jun 2020	19:15
	Tentulikhunti	Vento Energy Solar	132 kV	0.080	0.036	0.120	1st Jun 2020	01:45
30	Boudh	Aditya Birla Solar-I	33kV	0.000	0.000	0.000	1st Jun 2020	00:00
		SOUTHCO TOTAL ENERGY (MU)		526.8899	288.5462	684.3002		

AUTO TRANSFORMER LOADING FOR THE MONTH OF JUNE'2020

Name of the 220 kV Sub-Station (Feeding Sub-stations/Feeders)	Capacity MVA	Drawal details						REMARKS
		Maximum			Minimum			
		MW	Day	Time	MW	Day	Time	
ATRI { Banki, Khurda, Chandpur & Argul }	2x160	68.88	10th Jun 2020	13:30	2.20	9th Jun 2020	17:15	
		69.04	10th Jun 2020	13:30	2.12	9th Jun 2020	17:15	
ASKA NEW	2x160	70.60	12th Jun 2020	16:00	0.24	7th Jun 2020	22:30	
		69.96	12th Jun 2020	16:00	0.24	7th Jun 2020	22:45	
BALASORE 220/132 KV { Balasore, Birla Tyre(I), Ispat Alloy(I), Jaleswar, Jaleswar(T) }	3x160	73.96	1st Jun 2020	00:00	15.72	2nd Jun 2020	17:45	
		73.96	1st Jun 2020	00:00	15.52	2nd Jun 2020	17:45	
		75.96	1st Jun 2020	01:30	16.68	2nd Jun 2020	16:45	
BARGARH 220/132 kV	1x100	16.24	1st Jun 2020	16:30	0.44	2nd Jun 2020	12:45	
	1x160	9.24	1st Jun 2020	16:30	0.04	3rd Jun 2020	14:45	
BHADRAK 220/132 KV {Bargarh, Ghensh }	1x100	49.20	10th Jun 2020	13:00	0.44	7th Jun 2020	15:45	
	1x160	87.96	10th Jun 2020	13:00	1.56	7th Jun 2020	15:45	
	1x160	110.60	18th Jun 2020	12:00	1.52	7th Jun 2020	15:45	
BHANJANAGAR 220/132 KV { Bhanjanagar, Aska, Phulbani, Ganjam, Chatrapur }	1x160	56.72	18th Jun 2020	16:00	2.92	9th Jun 2020	17:15	
	1x160	49.80	18th Jun 2020	16:00	2.28	9th Jun 2020	17:15	
BIDANASI 220/132 KV {Bidanasi, Khurda }	1x100	49.80	24th Jun 2020	12:45	0.04	15th Jun 2020	03:15	
	1x100	32.56	10th Jun 2020	13:30	0.04	13th Jun 2020	07:30	
	1x160	46.60	10th Jun 2020	13:30	0.04	12th Jun 2020	14:15	
BOLANGIR (SADAIPALLI) 220/132 KV { Bolangir, Patnagarh, Sonepur, Saintala, Khariar, Barpalli }	2x160	98.48	12th Jun 2020	16:15	9.92	29th Jun 2020	13:00	
		98.48	12th Jun 2020	16:15	9.92	29th Jun 2020	13:00	
		103.20	12th Jun 2020	16:15	10.40	29th Jun 2020	13:00	
BUDHIPADAR 220/132 KV { Jharsuguda, Jharsuguda Tr, Cemco(I), MCL, }	2x160	97.88	19th Jun 2020	18:00	41.80	14th Jun 2020	21:00	
		97.08	19th Jun 2020	18:00	41.56	14th Jun 2020	21:15	
CHANDAKA 220/132 KV { Chandaka, Bhubaneswar, Nimapada, Ransinghpur, Puri,Kesura, Kaipadar Tr. }	1x100	66.32	25th Jun 2020	14:45	0.68	15th Jun 2020	00:30	
	1x160	115.72	25th Jun 2020	14:45	10.92	15th Jun 2020	00:30	
	1x100	72.52	25th Jun 2020	14:45	2.60	15th Jun 2020	00:30	
	1x160	111.84	25th Jun 2020	14:45	5.20	30th Jun 2020	09:15	
CUTTACK	1x160	71.16	26th Jun 2020	11:30	3.12	8th Jun 2020	15:30	
	1x100	55.16	8th Jun 2020	10:30	1.36	8th Jun 2020	15:30	
DUBURI 220/132 KV {Duburi, Bamnipal(I), BRPL, MESCO, Jajpur Road, Kalarangi, Jajpur Town }	1x160	71.44	14th Jun 2020	12:00	0.04	9th Jun 2020	03:45	
	1x100	UNDER SHUT DOWN						
	1x100	42.68	14th Jun 2020	12:00	0.04	4th Jun 2020	15:45	
GODA	1x160	0.00	0.00	00:00	0.00	0.00	00:00	
	1x100	0.00	0.00	00:00	0.00	0.00	00:00	
JAYANAGAR 220/132 KV. {Damanjodi(NALCO), Traction S/Ss, }	1x160	49.76	5th Jun 2020	20:00	0.12	17th Jun 2020	00:00	
	1x160	50.00	5th Jun 2020	19:30	0.12	19th Jun 2020	15:00	
JODA 220/132 KV { Joda,Tensa, FAP(I), Bolani(I), Nalda Tr.,Polasponga, *Rairangpur, Bhalulata traction }	3x100	72.56	23rd Jun 2020	19:45	15.56	4th Jun 2020	17:00	*** - Alternate P/S from Kuchei.
		UNDER SHUT DOWN						
KATAPALI 220/132 KV {Chipilima,Bargarh, ACC,Sonepur & Katapali area load. }	1x100	21.52	26th Jun 2020	15:15	0.04	10th Jun 2020	04:30	Supported by Burla & Chipilima
	1x100	21.88	26th Jun 2020	15:15	0.04	2nd Jun 2020	03:30	
	1x160	32.28	26th Jun 2020	15:15	0.04	2nd Jun 2020	03:45	
LAPANGA {Kuchinda, Aryan Viraj, Shyam Metallics }	2x160	68.32	1st Jun 2020	17:15	17.56	15th Jun 2020	05:45	
		68.16	1st Jun 2020	17:15	17.48	15th Jun 2020	05:45	
MERAMUNDALI 220/132 kV {Meramundali Traction, Dhenkanal, Navchrome(I), Hind Metal, Aarti,BRG }	3x100	44.08	2nd Jun 2020	14:00	0.04	15th Jun 2020	12:30	
		43.12	2nd Jun 2020	14:00	0.04	15th Jun 2020	12:30	
		54.88	15th Jun 2020	12:30	2.68	8th Jun 2020	15:30	
Mendhasal { Part area load of Khurda S/S }	2x100	19.80	9th Jun 2020	07:45	0.00	10th Jun 2020	05:45	
		48.60	9th Jun 2020	07:45	6.00	2nd Jun 2020	08:15	
NARENDRAPUR 220/132KV { Narendrapur, NarendrapurTr, Berhampur, Chhatrapur, Ganjam, Balugaon, Digapahandi, Mohana. }	2x160	95.72	4th Jun 2020	22:00	12.64	8th Jun 2020	19:00	
		95.28	4th Jun 2020	22:00	12.64	8th Jun 2020	19:00	
		54.88	4th Jun 2020	22:00	6.76	8th Jun 2020	19:00	
PARDEEP 220/132 KV { Paradeep, Kendrapada, Pattamundai, Chandikhol, Cuttack, Jagatsinghpur, Phulnakharar }	1x100	60.56	7th Jun 2020	22:00	16.52	28th Jun 2020	15:00	
	1x160	98.60	7th Jun 2020	21:45	27.44	28th Jun 2020	15:00	
	1x160	92.20	7th Jun 2020	22:00	11.44	11th Jun 2020	08:15	
TARKERA 220/132 KV { Rourkela, Rourkela Tr.,RSP(I), Chhend , Adhunik Metal, Rajgangpur, OCL(I), Rajgangpur Tr. }	4x100	58.16	4th Jun 2020	10:30	1.12	14th Jun 2020	07:15	
		61.28	4th Jun 2020	10:30	2.72	14th Jun 2020	07:15	
		54.56	1st Jun 2020	14:45	1.20	14th Jun 2020	07:15	
		57.92	4th Jun 2020	10:30	2.08	14th Jun 2020	07:15	
THERUVALLI 220/132 KV. {Theruvalli, IMFAL(I), JK(I), Junagarh, Kesinga,Powmex(I), Rayagada, }	2x100	46.00	24th Jun 2020	22:45	9.12	8th Jun 2020	12:00	Rayagada & Paralakhemundi can be fed from Machhkund
		48.44	24th Jun 2020	22:45	1.68	5th Jun 2020	10:45	
	1x160	75.04	24th Jun 2020	22:45	14.36	8th Jun 2020	12:00	
TTPS 220/132 KV { Chainpal, FCI (I), Angul, MCL Nandira(I), }	1x160	74.87	29th Jun 2020	17:45	0.00	16th Jun 2020	23:30	
	1x160	74.87	29th Jun 2020	17:45	0.00	16th Jun 2020	23:30	
	2x160							
SAMANGARA { Puri, Nimapara & Konark }								

SYSTEM DISTURBANCE IN THE MONTH OF JUNE-2020 (A) TRIPPING OF LINE / EQUIPMENT WITHOUT LOAD LOSS											
Sl. No.	Sub-Station	Date	From	To	Duration (HH:MM)	Lines / Equipments / Generating Units tripped	Relay Indication / Cause	Grid Sub-stations affected (It can be more than one)	Area interruption period	Remarks	
1	Nuapatna	01.06.20	13:48	14:15	00:27	132KV Nuapatna-Khajuriakata- Denkhani T line	E/F				
2	Nuapatna	01.06.20	13:48	14:17	00:29	132KV Nuapatna-Arati feeder	Y phase O/C and E/F				
3	Choudwar	01.06.20	13:48	14:12	00:24	132KV Dhenkanal-ICCL fdr	Tripped on O/C Bph. at ICCL & Dhenkanal end				
4	Khajuriakata	01.06.20	14:01	14:16	00:15	132kv Khajuriakata - Nuapatna	Tripped in Back-Up Relay (E/F)				
5	Nuapatna	01.06.20	14:18	14:33	00:15	132KV Nuapatna-Arati feeder	Y phase O/C and E/F				
6	Choudwar	01.06.20	14:20	14:47	00:27	132kv Arati Rawmet fdr	Tripped on E/F				
	Joda	01.06.20	14:41	15:05	00:24	220KV Joda-TTPS ckt-II	E/F				
7	Mendhasal	01.06.20	16:54	17:39	00:45	220KV Mendhasal-Chandaka Ckt-I	Tripped by DP,IL3-3.4ka,d-10.8km,Gr A/B relay optd				
8	Mendhasal	01.06.20	16:54	17:37	00:43	220KV Mendhasal-Chandaka Ckt-II	Tripped by DP,IL3-2.15ka,d-24.9km,Gr A/B relay optd				
9	Bhanjanagar	02.06.20	10:36	11:04	00:28	220KV Bhanjanagar - Navagadh Fdr.	B PH TO E/F, Z-1,D=21.00 KM				
10	Budhipadar	02.06.20	11:16	13:18	02:02	220 KV Budhipadar-Korba Ckt-III	N/A			Tripped at Korba end only	
11	Budhipadar	02.06.20	11:25	21:45	10:20	220 KV Budhipadar-Korba Ckt-II	Budhipadar End:D/P,Zone-I & II,FL=L2-E,IL2=1.17 KA & Dist=147 Km(81.2%) / Korba End:D/P,Zone-I,FL=L2-E,Dist=13.35 KM & IL2=9.308 KA			Y-Phase jumper snapped at Loc-54. NBFC issued at 16:42 Hrs to Korba end for attending B/d work at loc-54.	
12	Bhanjanagar	02.06.20	12:14	17:22	05:08	220KV Bhanjanagar - Navagadh Fdr.	B PH TO E/F, Z-1,D=17.33 KM				
13	Bolangir (New)	02.06.20	14:32	15:07	00:35	220KV PGCIL-Bolangir (New) ckt	Tripped on SOTF function displayed on Distance protection relay.				
	Chandaka	02.06.20	15:28	17:55	02:27	132KV Chandaka-Mendhasal Fdr.					
14	Mendhasal	02.06.20	15:32	17:55	02:23	132kv Mendhasal-Chandaka Ckt.	Tripped by DP,IL1-4.59ka,IL2-4.71ka,IL3-4.72,d-12.1km				
15	Kalunga	02.06.20	15:57	17:18	1:21:00	132 KV Kalunga- Budhipadar Fdr.	DP, R Phase, E/F, Zone 3, 172.3 km, Ir-882.1 A, Iy-153.9 A, Ib-133.6 A Backup Relay- R Phase, E/F, Ir- 880 A, Iy-155.3 A, Ib-134.6 A, In-904.5 A				
16	Paradeep	02.06.2020	19:25	03.06.20 09:46	14:00	132/33KV 20MVA Power Transformer-II	Buchholz & MR				
17	Bhanjanagar	03.06.20	09:10	09:29	00:19	220KV Bhanjanagar - Navagadh Fdr.	B PH TO E/F, Z-1,D=14.9 KM				
18	Bhanjanagar	03.06.20	10:00	16:52	06:52	220KV Bhanjanagar - Navagadh Fdr.	B PH TO E/F, Z-1,D=24.96 KM				
19	Jaleswar	03.06.20	14:51	19:18	04:09	132KV Jaleswar -Bariapada (PG) Fdr.	At Jaleswar end: DP, B- E, 15.8 Km, Z1, 1267 Amp.				
20	Dhenkanal	03.06.20	15:03	15:28	00:21	132KV Dhenkanal-ICCL fdr	DP relay:L3-N, Ic=2.7ka, Z-1, 23.5KM				
21	Budhipadar	03.06.20	15:54	04.06.20 11:04:00	19:10	132 KV Budhipadar-Sundargarh Ckt-I	At Budhipadar End- 1) D/P(SIEMENS 7SA52) i) Dist Gen Trip, ii) Relay Trip L2, iii) Dist Trip Zone-II, F.D= 33Kms(104.7%),FL=L2-E, 2) B/U(Micom P14DB), O/C +E/F(Y-Phase), Iy= 2.552KA, At Sundargarh End O/C +E/F (Y-Phase), D/P operated in Zone-I, F.D= 3.79Kms, IL2=2.06KA			Y-Phase Insulator String snapped at Loc No-95 & the Line declared faulty	
22	Bhanjanagar	03.06.20	15:58	16:17	00:19	220KV Bhanjanagar - Narsinghpur Fdr.	B PH TO E/F, Z-1, D=62.1 KM				
23	Angul	03.06.20	17:40	18:16	00:36	132 KV Angul-Chainpal Fdr	O/C on R-phase, DP, 3247.65 A, 6.10km, L1-N				
24	Angul	04.06.20	05:20	05:27	00:07	132 KV Angul-Chainpal Fdr	E/F				
25	Bhanjanagar	04.06.20	14:40	15:05	00:25	220KV Bhanjanagar - Navagadh Fdr.	B PH TO E/F, Z-1, D=14.3 KM				
26	Rengali	04.06.20	15:26	16:20:00	00:54	220KV Rengali-Barkote Fdr	DP Relay, 44.6KM, Z2, IA=0.03IN, IB=0.03IN, IC=5.72IN, R=0.30 Ω.				
27	Kamakhyanager	04.06.20	15:53	16:22	00:29	132 KV OPCL-Kamakhyanager	DP, M/T- 86, 3 phase			Thunder and wind	
28	Budhipadar	04.06.20	16:41	16:44	00:03	132 KV Budhipadar-Sundargarh Ckt-II	At Budhipadar End D/P operated inZone-I, FL= Bphase-G, F.D=4.61Kms, Ib= 6.563KA				
29	Kalunga	04.06.20	17:04	18:25	1:21:00	132 KV Kalunga- Budhipadar Fdr.	DP R Phase, E/F, Zone 3, 142.1 km, Ir-624.2 A, Iy-104.7 A, Ib-106.4 A Backup Relay- R Phase, E/F, Ir- 83.96 A, Iy-409.4 A, Ib-99.43 A, In-494.3 A				
30	Budhipadar	04.06.20	17:04	18:25	01:21	132 KV Budhipadar-Sundargarh Ckt-II	At Budhipadar End D/P operated inZone-I, FL= 34.5Kms, F.L=L1-E, IL1=1.836KA At Budhipadar End D/P operated inZone-I, FL= 142.1Kms, F.L=L1-E, IL1=624.24A				
31	Rajgangpur	04.06.20	18:19:00	18:38:00	00:19	132 kV Rajgangpur- Budhipadar Fdr.	Rajgangpur end:AGT,IA=1555A,IG=1684A,Z1,LOC=41.99km. Budhipadar end: AGT, IA=1113.08A, 38.532km, Z1.				
32	Aska New.	06.06.20	06:20	07:03	00:43	40MVA Power Transformer No-3	132kV Side: Over fluxing 33kV Side: E/F, VT Fuse fail				
33	Khurda	06.06.20	10:20	10:38	00:18	132KV Khurda-Chandaka Fdr	DP Relay Operated				
34	Choudwar	06.06.20	12:47	13:08	00:21	132 KV Bidamashi-Choudwar	Master trip at Bidamasi end				
35	Bhanjanagar	06.06.20	13:24	13:35	00:11	220KV Bhanjanagar - Navagadh Fdr.	B PH TO E/F, Z-1,D=33.7 KM				
36	Bhanjanagar	06.06.20	13:45	19:27	05:42	220KV Bhanjanagar - Navagadh Fdr.	B PH TO E/F, Z-1,D=32.7 KM				
37	Kalunga	07.06.20	15:25	15:52	0:27:00	132 KV Kalunga- Budhipadar Fdr.	DP, R Phase, E/F, Zone 3, 142.1 km, Ir-797.6 A, Iy-81.64 A, Ib-120.4 A Backup Relay- R Phase, E/F, Ir- 793.6 A, Iy-82.09 A, Ib-121.4 A, In-870.8 A				

Sl. No.	Sub-Station	Date	From	To	Duration (HH:MM)	Lines / Equipments / Generating Units tripped	Relay Indication / Cause	Grid Sub-stations affected (It can be more than one)	Area interruption period	Remarks	
38	Raigangpur	07.06.20	15:28	15:53:00	00:25	132 kV Raigangpur- Budhipadar Fdr.	Raigangpur end: AGT, IA=1131A, IG=1193A, 46.60km, Z1. Budhipadar end: AGT, IA=2.065kA, 33.02km, Z1.				
	Bhadrak	07.06.20	15:40	17:31	01:51	132 kV Bhadrak-Jajpur Town feeder	DP, B-E, O/C, 1.59 k.m, 7.09 kA				
39	Balasure	07.06.20	16:05	16:53	00:48	220KV Balasure-New Duburi feeder	At Balasure end: DP, Z1, R Phase, L1-N, 65.978Km, 2118.48A At New Duburi end: DP, Z1, R-Phase, 62.20km, 2.90kA				
	New Duburi	07.06.20	16:08	17:02	00:54	220 kV New Duburi-Balasure feeder	Tripped at both end, New Duburi end: DP, Z1, R-N, 62-2 k.m, 2.9 KA				
40	Rengali	07.06.20	19:00	19:28	00:28	220kV Rengali-Rengali(PG) Ckt-II	Pilot wire protection relay operated				
41	Therubali	08.06.20	12:02	15:56	03:54	220KV Therubali-Laxmipur Ckt-2	BCT, Zone-1, 0.56 km at Therubali end. BCT, Zone-1, 59 km at Laxmipur end.				
	Joda	08.06.20	13:13	13:26	00:13	220 kV TTPS-Joda Ckt-II	DP, Z1, 3 fault, 1.6 KA, 71.89 k.m.				
42	Dhenkanal	08.06.20	13:44	14:12	00:28	132KV Dhenkanal-ICCL fdr	DP relay: L2 N, Ib=2.6kA, Z-1, 24.5KM				
43	Budhipadar	08.06.20	13:51	15:12	01:19	220 KV Budhipadar-Korba Ckt-II	Budhipadar End: D/P, Zone-I, FL=L3-E, IL3=1.28 KA & Dist=121.08Km(66.8%) / Korba End: D/P, Zone-I, FL=L3-E, Dist=43.7 KM & IL3=3.062 KA				
44	Tarkera	08.06.20	14:16	14:36	00:20	132 kV Tarkera Rourkela ckt I	Backup Relay: O/C-Y Phase & E/F				
45	Tarkera	08.06.20	14:16	14:37	00:21	132 kV Tarkera Rourkela ckt II	Numerical Backup Relay (O/C-Y Phase & E/F)				
46	Tarkera	08.06.20	14:16	14:23	01:40	100 MVA Auto Transformer I	Numerical Backup Relay (O/C-Y Phase & E/F)				
47	Tarkera	08.06.20	14:16	14:25	00:09	100 MVA Auto Transformer III	Numerical Backup Relay (O/C-B Phase & E/F)				
48	Tarkera	08.06.20	14:16	14:29	00:13	100 MVA Auto Transformer IV	Backup Relay (O/C-Y Phase & E/F)				
49	Paradeep	08.06.2020	14:24	21:41	07:17	220kV N.Duburi-Paradeep Ckt-II	C-G, DP, 73.1 km			B-PH SUSPENSION INSULATOR SNAPPED AT LOC-109	
50	Budhipadar	08.06.20	14:40	15:43	01:03	220 KV Budhipadar-IBTPS Ckt-I	Budhipadar End: D/P, Zone- II, FL=L1-E, IL1=4.061 KA & Dist=30.193Km(119.34%) / IBTPS End: D/P, Zone-I, FL=L1-E, Dist=2.3 KM				
51	Budhipadar	08.06.20	14:40	15:44	01:04	220 KV Budhipadar-IBTPS Ckt-II	Budhipadar End: D/P, Zone- II, FL=L1-E, IL1=4.159 KA & Dist=29.830Km(117.90%) / IBTPS End: D/P, Zone-I, FL=L1-E, Dist=2.2 KM				
52	Budhipadar	08.06.20	14:40	15:31	00:51	220 KV Budhipadar-IBTPS Ckt-III	Tripped at at Budhipadar end, Master Trip Relay				
53	Choudwar	08.06.20	14:46	15:07	00:21	132KV Bidanashi-Choudwar	At choudwar end: O/C R,Y, B. At Bidanasi end: O/C R & B-phase to ground fault with M/R. Fault distance=10.4 Km, Ib=4.56KAmp, Ib=5.1 kAmp				
54	Choudwar	08.06.20	14:53	15:10	00:17	132KV Choudwar-T.S Alloys fdr	O/C R,B at choudwar end, E/F at T.S Alloys				
55	Choudwar	08.06.20	14:53	15:12	00:19	132KV Choudwar-Iccl fdr	Master trip at choudwar				
56	Choudwar	08.06.20	14:53	15:18	00:25	132KV T.S-Alloys-Arati fdr	DP relay tripped at Arati end				
57	Nuapatna	08.06.20	14:58	15:05	00:07	132KV Nuapatna-Arati feeder	E/F				
58	Khajuriakata	08.06.20	15:17	15:45	00:28	132kV Khajuriakata - Nuapatana	B-G Fault, Zone- I, Dist- 45.7Kms, IF=1.49KA				
59	Nuapatna	08.06.20	15:21	15:43	00:22	132KV Nuapatna-Khajuriakata- Denkhamal T' line	Y phase O/C				
60	Paradeep	09.06.2020	01:11	17.06.20 10:19	201:18:00	132/33KV 20MVA Power Transformer-II	O/C, RYB Phase , E/F			132kV side CB stuck in half close position due air pressure Lock Out of the CB.	
61	Budhipadar	09.06.20	03:39	04:01	00:21	220 KV Budhipadar-Basundhara Ckt-II	D/P, Zone-I, FL=L3-E, Dist=20.7 Km (57.8%)				
62	Rengali	09.06.20	16:33	16:40	00:07	220KV Rengali - Rengali P.H. Ckt-II	B/U Relay, IA=282.3A, IB=5.1A, IC=3.8A, IN=135.65A, IG=288.35A				
63	Rengali	09.06.20	16:40	18:04	01:24	220KV Rengali - Rengali P.H. Ckt-II	B/U Relay, IA=576.7A, IB=3.1A, IC=3.0A, IN=273.72A, IG=572.33A				
64	Budhipadar	09.06.20	18:47	11.06.20 16:30	45:43:00	220 KV Budhipadar-Korba Ckt-II	Budhipadar End: D/P, Zone- I, FL=L1-E, IL1=24.45 KA & Dist=0.2 Km / Korba End: D/P, Zone-II, FL=L1-E, Dist=224.1 Km, IL1=941 Amp			Earth wire snapped in between Loc-5 & 6. So the feeder declared FAULTY	
65	Budhipadar	09.06.20	18:59	20:30	01:31	220 KV Budhipadar-Basundhara Ckt-II	D/P, Zone-I, FL=L2-E, Dist=1.7 Km, IL2=21.72 KA				
66	Budhipadar	09.06.20	19:07	12.06.20 21:41	74:34:00	220 KV Budhipadar-Raigarh PG Fdr	Budhipadar End: D/P, Zone-I & II, FL=L3-E, IL1=17.23 KA, IL2=18.92 KA & IL3=16.71 KA, Dist=6.4 Km(7.7%) / Raigarh PG End: D/P, Zone-II, IL1=3.717 KA, IL2=3.728 KA & IL3=4.144 KA, Dist=73.3 KM			Earth wire snapped in between Loc-5 & 6. So the feeder declared FAULTY	
67	Budhipadar	09.06.20	19:18	19:47	00:29	220 KV Budhipadar-AAL Ckt-II	Budhipadar End: D/P, Zone-I, FL=L1-E, IL1=16.64 KA, Dist=4.81 Km / AAL end: Inter tripping				
68	Paradeep	09.06.2020	22.24	10.06.20 18:07	19:43	132kV Paradeep-Kendrapara Ckt II	AB-N, DP, 19.32km			R-PH CONDUCTOR SNAPPED AT LOC 250-251, RYB-PH SUSPENSION INSULATOR SNAPPED AT LOC 251	
	Joda	10.06.20	08:15	10:46	02:31	220 kV Joda-Tata Steel feeder					
	Atri	10.06.20	11:50	13:21	01:31	220 kV Atri-Pandiabati Ckt-II	86 B				
69	Bolangir (New)	10.06.20	16:52	17:23	00:31	220KV PGCIL-Bolangir (New) ckt	Tripped on distance protection at both end.			220KV Bargarh(New) ckt was in service	
70	Bolangir	10.06.20	16:53	16:58	00:05	132KV Bolangir- Bolangir(New) Ckt-I	E/F				
71	Balasure	11.06.20	00:56	01:45	00:49	220KV Balasure- baripada(PG) Ckt-II	At Balasure end: DP, Z1, Y Ph-N, 36.36Km, 2.568KA At Kucheil end: Main-I : Y-G, Z1, 35.43Km, 3.597KA , Main-II: Y-G, Z1, 3.605KA				
72	Therubali	11.06.20	08:53	09:05	00:12	220KV Therubali-Laxmipur Ckt-2	CGT, Zone-1, 13.48 km at Therubali end. B-ph-N, Zone-1, 40 km at Laxmipur end.				

Sl. No.	Sub-Station	Date	From	To	Duration (HH:MM)	Lines / Equipments / Generating Units tripped	Relay Indication / Cause	Grid Sub-stations affected (it can be more than one)	Area interruption period	Remarks	
73	Bolangir (New)	11.06.20	14:10	14:29	00:19	132KV Bolangir (New)-Bolangir ckt-II	Tripped on earth fault displayed on back up relay.			132KV Sadeipali-Bolangir ckt-I was in service	
74	Rengali	12.06.20	00:10	07:00	06:50	220KV Rengali-Rengali(PG) Ckt.-II	Auto reclosure				
75	Nuapatna	12.06.20	13:10	13:6:20 14:27	24:17:00	132KV Nuapatna-Arati feeder	E/F, O/C at Y and B phase				
	Joda	12.06.20	13:25	13:48	00:23	220 kV Joda-TTPS Ckt.-II	Joda end-R-E, 0.65 KA				
76	Mendhasal	12.06.20	18:32	23:16	04:44	220KV Mendhasal-Bidamasi Ckt.-II	Tripped by DP,IL2=9.28ka,d=11.8km,				
77	Rengali	13.06.20	00:39	01:50	01:11	220kV Rengali-Rengali(PG) Ckt.-II	Master trip relay operated				
78	Budhipadar	13.06.20	05:11	06:11	01:00	220 KV Budhipadar-Basundhara Ckt-II	At Budhipadar End, D/P-I(ABB RELZ 100)TRZ2, ZM1, ZM2, ZM3, PSS, PSN, D/P-II(SIEMENS 7SA52) Dist Trip, Relay Trip L1, Relay Trip L2, Relay Trip L3, Zone-II, FL = L2-E, FD= 36.3 Kms(101.5%), IL2= 4.23 KA,				
	Meramundali	13.06.20	12:45	13:52	01:07	220 kV Meramundali-TTPS Ckt.-II	E/F, Y-N, 3.11 kA, at Meramundali end				
79	Nuapatna	13.06.20	14:29	15:06:20 10:50:00	44:21:00	132KV Nuapatna-Arati feeder	B phase to ground.				
80	Tarkera	14.06.20	03:59	11:51	07:52	220 kV Tarkera Budhipadar Ckt I	DP Relay(Zone I, Distance=56.0 Kms , Loop- L2 N , IL2=1.98 kA)				
81	Tarkera	14.06.20	03:59	11:52	07:53	220 kV Tarkera Budhipadar Ckt II	DP Relay(Zone I, Distance=72.30 Km, Loop- L3 ,IL2=2.29 kA, IL3=3.38 kA)				
82	Budhipadar	14.06.20	04:05	05:27	01:22	220 KV Budhipadar-Korbo Ckt-II	At Budhipadar End, D/P-I(ABB RELZ 100)TRZ1, TRZ2, ZM1, ZM2, ZM3, PSS, CSZ, SUP, D/P-II(SIEMENS 7SA52) Dist Trip, Relay Trip L1, Relay Trip L2, Relay Trip L3, Zone-I & II, FL = L2-E, FD=204.4 Kms(112.9%), IL2= 1.25 KA, At Korbo End:D/P,Zone-I,FL=L2-E,IL2=7.185 KA,FD=18.91 Km				
83	Rajgangpur	14.06.2020	05:40:00	06:45:00	01:05	132 kV Rajgangpur- Budhipadar Fdr.	AGT,IA=2445A,IG=2602A,LOC=22.36KM,ZONE-I			HEAVY LIGHTENING AND RAINFALL	
84	Kalunga	14.06.20	06:16	08:06	1:50:00	132 KV Kalunga- Budhipadar Fdr.	DP,R Phase, E/F, Zone 1, 63.72 km, Ir=1.925 kA, Iy=51.11 A, Ib=217.7 A Backup Relay- R Phase, E/F, Ir= 1.912 kA, Iy=51.46 A, Ib=222.2 A, In=2.137 kA				
85	Rengali	14.06.20	12:46	13:01	00:15	220kV Rengali-Rengali(PG) Ckt.-II	Pilot wire protection relay operated				
86	Angul	14.06.20	20:07	20:23	00:16	132 KV Angul-MCL- I Fdr	O/C on R-phase. DP, 9.116 km, L2-N, 517 A				
87	Kalunga	14.06.20	20:56	22:09	1:15:00	132 KV Kalunga- Budhipadar Fdr.	DP, B Phase, E/F, Zone 3, 185.8 km, Ir=861.7 A, Iy=155.1 A, Ib=104.3 A Backup Relay-B Phase, E/F, Ir= 853.3 A, Iy=156.5 A, Ib=103.3 A, In=828.2 A				
88	Mendhasal	15.06.20	00:29	12:51	12:22	220KV Mendhasal-Chandaka Ckt-I	Tripped by DP,IL2=2.89ka,d=20.4km,zone2 optd,d=96%				
89	Budhipadar	15.06.20	00:42	02:12	01:30	220 KV Budhipadar-IBTPS Ckt-III	At Budhipadar End, D/P-I(ABB RELZ 100)TRZ1, ZM1, ZM2, ZM3, PSR,PSN,CSZ, D/P-II(SIEMENS 7SA52) Dist Trip, Relay Trip L1, Relay Trip L2, Relay Trip L3, Zone-2, FL = L1-E, FD= 5.3 Kms(20.9%), IL1= 16.25 KA,			Heavy lightning with rain at Budhipadar end.	
90	Budhipadar	15.06.20	00:47	01:38	00:51	132 KV Budhipadar-MCL Ckt-I	At Budhipadar End : D/P-I(ABB REL 670)R,Y & B-Phase Trip,Zone-I,Dist.Trip,F.D=7.5528 Km(41.5%),FL=L2-L3 & IL2=9.24 KA & IL3=5.212 KA, At MCL End:D/P,Zone-III			Heavy lightning with rain at Budhipadar end.	
91	Budhipadar	15.06.20	00:47	01:43	00:56	132 KV Budhipadar-MCL Ckt-II(U/C from Budhipadar end)	At Budhipadar End : D/P-I(MICOM P441)R,Y & B-Phase Trip,Zone-I,Dist.Trip,F.D=7.567 Km,FL=L2-L3-N & IL2=6.198 KA & IL3=5.876 KA			Heavy lightning with rain at Budhipadar end.	
92	Budhipadar	15.06.20	01:08	01:47	00:39	220 KV Budhipadar-Lapanga Ckt-II	At Budhipadar End : D/P-I(MICOM P444)R,Y & B-Phase Trip,Zone-II,Dist.Trip,F.D=16.31 Km,FL=L1-L3-N & IL1=13.81 ,IL3=3.817 KA, At Lapanga End:D/P,Zone-I,FL=L1-E,FD=12.6 KM & IL1=10.93 KA			Heavy lightning with rain at Budhipadar end.	
93	Budhipadar	15.06.20	01:47	19:41	17:54	220 KV Budhipadar-Lapanga Ckt-II	At Lapanga End:D/P,Zone-I,FL=L1-E,FD=11.1 KM & IL1=14.69 KA			The feeder charged from Lapanga end but it immediately tripped,after patrolling done found R-Phase insulator string bursted at LOC-29,So L/c issued & same was replaced.	
94	Budhipadar	15.06.20	01:47	01:48	00:01	220 KV Budhipadar-Lapanga Ckt-I	Tripped only Budhipadar end with no relay indication.				
	Katapali	15.06.20	10:46	16:57	06:11	220 kV Katapali-Bolangir (PG) feeder					
95	Khajurikata	15.06.20	12:28	15:13	02:45	132kV Meramundali-Khajurikata Line	R-G Fault, Zone-I, Dist- 26.8 Kms, If=1.55KA				
96	Jaleswar	15.06.20	14:49	18:28	03:06	132KV Jaleswar -Baripada (PG) Fdr.	At Baripada(PG) end: DP, Y-B Phase, 29.63 Km , Z1 , Iy 2.69 kA , Ib 2.51 kA			P/S availed from Bast end through Jaleswar at 15:17 Hrs.	
97	Bhanjanagar	15.06.20	16:53	17:46	00:53	40MVA Power transformer No.1	E/F				
98	Bhanjanagar	15.06.20	16:53	17:44	00:51	40MVA Power transformer No.3	E/F				
99	Aska New.	15.06.20	20:29	20:46	00:17	132kV Asks New - Aska Ckt-2	DP Relay Optd. With PSB			Jumper snapped at loc no -5 of 132kv askanew -aska ckt-2	
100	Rajgangpur	16.06.20	06:43:00	06:49:00	00:06	132 kV Rajgangpur- Budhipadar Fdr.	Rajgangpur end: AGT, IA=1208A, IG=1230A, LOC=58.8km, Z1, Budhipadar end: E/F, R Phase, 22.6km, Z1, IR=3.56kA.				
101	Budhipadar	16.06.20	14:12	17.06.20 16:14	26:02:00	220 KV Budhipadar-IBTPS Ckt-IV	At Budhipadar End, D/P-I(ABB RELZ 100)TRZ1, ZM1, ZM2, ZM3, PST,PSN,CSZ, D/P-II(SIEMENS 7SA52) Dist Trip, Relay Trip L1, Relay Trip L2, Relay Trip L3, Zone-2, FL = L3-E, FD= 5.1 Kms(20.0%), IL1= 16.85 KA, At IBTPS End : B-Phase (E/F)			After line Patrolling it is observed that Earth wire snapped in between Loc-20 & 24 & hanged in between Ckt-III & IV. So 220 KV Budhipadar-IBTPS Ckt-IV declared FAULTY.	
102	Tarkera	18.06.20	16:46	17:04	00:18	132 kV Tarkera Rourkela I	O/C R & B Phase				
103	Tarkera	18.06.20	16:46	17:04	00:18	132 kV Tarkera Rourkela II	O/C R & B Phase				

Sl. No.	Sub-Station	Date	From	To	Duration (HH:MM)	Lines / Equipments / Generating Units tripped	Relay Indication / Cause	Grid Sub-stations affected (It can be more than one)	Area interruption period	Remarks	
104	Khurda	19.06.20	12:19	14:04	01:45	132KV Khurda-Chandaka Fdr	DP Relay Operated				
105	Jaleswar	19.06.20	15:12	18:16	03:06	132KV Jaleswar - Baripada (PG) Fdr.	At Jaleswar end: DP, Y Phase-E, 53.0 Km, Z1, 765.6A. At Baripada (PG) end: Y Phase-E, 7.75 Km, Z1, 5.43 kA.				
106	Choudwar	20.06.20	06:05	06:23	00:18	132KV Choudwar-Bidanashi fdr	At Choudwar end: O/C Rph (Dp relay, z1.Y ph) At Bidanasi end: Z1, R-phase to Ground, Ir=4.55KAmp, 12.5km.				
107	Bolangir (New)	20.06.20	14:41	14:57	00:16	132KV Bolangir (New)-Bolangir ckt-II	Tripped on earth fault displayed on back up relay.			132KV Sadeipali-Bolangir ckt-I was in service	
108	Bolangir (New)	20.06.20	19:18	19:26	00:08	132KV Bolangir (New)-Bolangir ckt-II	Tripped on earth fault displayed on back up relay.			132KV Sadeipali-Bolangir ckt-I was in service	
	Bhadrak	21.06.20	08:24	22.06.20 16:34	32:10:00	132 kV Bhadrak-DPCL Ckt-II	E/F, Z1, 1.115 k.m, Y-B-E, Iy=6.81 kA, Ib=6.790 kA				
109	Jajpur Road	21.06.20	11:24	22:20	10:56	132KV Jajpur Road- Chandikhol feeder	DP RELAY OPERATED, Ir=342.5A, Iy=2.627KA, Ib=174.7A, Zone-2, Distance=29.58KM, VRN =79.98KV, VYN =53.49KV, VBN =80.67KV, FR=794.3mΩ			Idle charged	
110	Therubali	21.06.20	12:48	18:28	05:40	220KV Therubali-Kashipur Ckt-4	AGT, Z-2, 63.02 km at Therubali end. R-ph-N at kashipur end.				
111	Jajpur Road	21.06.20	13:04	14:31	01:27	132 KV Jajpur Road - Kendrapada feeder	DP RELAY OPERATED, Ir=15.89A, Iy=16.83A, Ib=1.638KA, Zone-2, Distance=51.98KM, VRN =80.15KV, VYN =81.10KV, VBN =63.40KV, FR=1.539Ω			Idle charged	
	Jayanagar	22.06.20	11:05	11:42	00:37	220 kV Jayanagar-Balimela feeder	Tripped at Balimela end				
112	Bhanjanagar	23.06.20	11:15	12:03	00:48	220KV Bhanjanagar - Aska ckt-1	B PH TO E/F,Z-1,D=14.4KM				
113	Therubali	23.06.20	13:04	13:18	00:14	220KV Therubali-Bhanjanagar Ckt-2	CN, Z-1, 5.03 km at Therubali end. B-ph E/F, Z-2, 150 km at Bhanjanagar end.				
114	Bhanjanagar	23.06.20	13:04	13:18	00:14	220 kV Bhanjanagar - Therubali ckt-2	B PH TO E/F,Z-2,D=150.5KM				
115	Therubali	23.06.20	14:04	14:12	00:08	220KV Therubali-Laxmipur Ckt-1	AN, Z-1, 26.27 km at Therubali end. R-N, Z-1, at Laxmipur end.				
116	Choudwar	24.06.20	09:20	09:28	00:08	132KV Dhenkanal-Icd fdr	E/F at Dhenkanal and Icd end				
117	Tarkera	24.06.20	13:30	14:08	00:38	132 kV Tarkera Rajgangpur Ckt 1	DP Relay (Loop- B G, Distance-19.0 Kms , Ib-2.38 kA , Ir-2.28 kA)				
	Jayanagar	24.06.20	16:45	17:51	01:06	132 kV Jayanagar-Sunabeda feeder	R-Y, 8 kA				
	Duburi	25.06.20	03:31	13:53	10:22	132 kV Duburi-TTPS Ckt-II	Tripped at both end. At Duburi end: Z1, R-E, 76.72 k.m, 6.95 kA At Budhipadar End, D/P-II(ABB REL Z 100)TRZ1, ZM1, ZM2, ZM3, PST,PSN,CSZ, D/P-II(SIEMENS 7SA52) Dist Trip, Relay Trip L1, Relay Trip L2, Relay Trip L3, Zone-2, FL = L3-E, FD= 3.3 Kms(13.0%), IL3= 11.04 KA, At IBTPS End : B-Phase (E/F),D/P,Z,Zone-II				
118	Budhipadar	26.06.20	08:41	15:03	06:22	220 KV Budhipadar-IBTPS Ckt-III	At Budhipadar End, D/P-II(ABB REL 670) 3-Ph Trip and 1Ph Trip FL = L2-E, FD=0.75 Kms(0.41%), IL2= 30.204 KA, , D/P-II(MICOM-P444) Y-Ph Trip Zone-I			The feeder is to be charged after line patrolling by line staff as per instruction of DGM/EHT(O&M) Division,Jharsuguda	
119	Budhipadar	26.06.20	13:40	17:27	03:47	220KV Budhipadar -Korba CKT No-III	At Budhipadar End, D/P-II(ABB REL 670) 3-Ph Trip and 1Ph Trip FL = L2-E, FD=0.75 Kms(0.41%), IL2= 30.204 KA, , D/P-II(MICOM-P444) Y-Ph Trip Zone-I			At 13:40Hrs Feeder is tripped at Budhipadar end only but at 14:41Hrs feeder is tripped at Korba end with D/P operated on Zone-II Fault Distanc =164.2Kms Fault Loop=Y-Ph-E/F Iy=1.113KAmp	
120	Khajuriakata	26.06.20	17:05	17:12	00:07	132kV Khajuriakata - Nuaputana	Tripped in Back-Up Relay (E/F), R-G Fault.				
121	Dhenkanal	26.06.20	17:05	18:37	01:32	132KV Dhenkanal-ICCL fdr	DP, relay:L2 N, Ir=1.719kA,Z-1, 41KM				
122	Angul	26.06.20	18:44	18:48	00:04	40 MVA TRF-II	O/C in R & Y-phase				
123	Kalunga	27.06.20	06:27	06:52	0:25:00	132 KV Kalunga- Budhipadar Fdr.	DP, R Phase, E/F, Zone 1, 60.95 km, Ir-2.16 kA, Iy-79.46 A, Ib-157.0 A. Backup Relay- R Phase, E/F, Ir- 2.198 kA, Iy-77.74 A, Ib-158.1 A, In-2.290 kA				
124	Rajgangpur	27.06.20	09:58	10:10	00:12	132/33kV 40MVA Transformer-III	86AX, 86BX, 86A, 86B				
125	Bhanjanagar	27.06.20	13:55	14:18	00:23	220KV Bhanjanagar - Aska ckt-2	DP NOT OPERATED				
126	Bhanjanagar	27.06.20	15:14	15:57	00:43	220KV Bhanjanagar - Aska ckt-2	B PH TO E/F,Z-1,D=19.48KM				
128	Bolangir (New)	28.06.20	04:43	11:26	06:43	160MVA Auto-III	Tripped on trip coil unhealthy observed on fascia.			160MVA Auto-I & II were in service.	
129	Bhograi	28.06.20	09:48	13:18	03:30	40 MVA Transformer No-2	132 kV Side: O/C, E/F, 50/51(P), IB-0.81 kA, 33kV Side: O/C, E/F & L.B.B, 50/51 (P) & 50/51(G),IB-2.48 kA.			B Phase 33kV LA of Transformer No-2 punctured.	
130	Khurda	28.06.20	13:36	14:29	00:53	132KV Khurda-Chandaka Fdr	DP Relay Operated				
131	Rajgangpur	28.06.2020	17:42:00	17:48:00	00:06	132/33kV 40MVA Transformer-III	86AX, 86BX, 86A, 86B, 50/51G				
132	Kalunga	28.06.20	18:03	19:20	1:17:00	132 KV Kalunga- Budhipadar Fdr.	DP Relay- R Phase, E/F, Zone 3, 141.9 km, Ir-1.040 kA, Iy-56.30 A, Ib-81.35 A Backup Relay- R Phase, E/F, Ir- 1.047 kA, Iy-55.80 A, Ib-82.26 A, In-1.088 kA DP Relay- R Phase, E/F, Zone 1, 27.26 km, Ir-3.596 kA, Iy-72.88 A, Ib-249.0 A Backup Relay- R Phase, E/F, Ir- 3.248 kA, Iy-91.93 A, Ib-212.7 A, In-3.440 kA				
133	Kalunga	28.06.20	19:21	19:57	0:36:00	132 KV Kalunga- Budhipadar Fdr.	AGT, Z-1,134.5 KM at Therubali end. R-N, Z-1, 60.35 KM at Narendrapur end.				
134	Therubali	29.06.20	10:41	10:51	00:10	220KV Therubali-Narendrapur Ckt-1	O/C, R-Phase.				
135	Paradeep	29.6.20	11:46	12:47	01:01	132KV Paradeep-PPL Ckt. I	At Balasore end: DP, Z1, R-N, 49.71Km, 2.625kA. At Kuchel end: Main-I : Y-G, Z-1, 19.81Km, 6.885kA.			At Loc no-80 (OB), Y-Ph conductor snapped, bending the cross arm at Loc no-81 (OA+3).	
136	Balasore	29.06.20	11:55	30.06.20 17:52	29:57:00	220KV Balasore-PGCIL Ckt-II	BGT, Z-1, D-8.63 KM				
137	Bhanjanagar	29.06.20	14:38	15:10	00:32	132 kV Bhanjanagar - Aska Ckt-1	ABC TRIP Z-1, D-20.17 KM				
138	Bhanjanagar	29.06.20	14:38	15:11	00:33	132 kV Bhanjanagar - Aska Ckt-2	Tripped by DP,IL-1-1.95KA,IL2-2.35KA,IL3-2.71KA,d-20.3km,				
139	Mendhasal	30.06.20	09:03	13:09	04:06	220KV Mendhasal-Chandaka Ckt-I					

SYSTEM DISTURBANCE IN THE MONTH OF JUNE- 2020 (B) TRIPPING OF LINE / EQUIPMENT WITH LOAD LOSS											
Sl. No.	Sub-Station	Date	From	To	Duration (HH:MM)	Lines / Equipments / Generating Units tripped	Relay Indication / Cause	Grid Sub-stations affected (it can be more than one)	Area interruption period	Remarks	Energy Loss in MU
1	Dhenkanal	01.06.20	14:01	14:08	00:07	132KV Dhenkanal-Joranda Traction Fdr.	E/E B/U Relay operated	Joranda Traction	00:07		0.000659757
2	Tarkera	01.06.20	14:28	15:20	00:52	220 kV Tarkera Rengali Ckt	At Tarkera end: DP Relay, Zone 1, 120.42 Kms, L1-N, IL1=1.06 kA, In=1.22 kA At Rengali end: B/U Relay, IA=1862.5A, IB=81.6A, IC=61.2A, IN=1202.11A	Chandiposh TSS	00:52		0.002620807
	BCMohanypur	01.06.20	14:41	15:31	00:50	132kV BCMohanypur-Bannipal Fdr	E/F	Bannipal	00:50		0.014708457
	BCMohanypur	01.06.20	14:44	15:45	01:01	132kV BCMohanypur-Tomka Fdr	E/F	Bannipal	01:01		0.017944317
3	Palaspanga	01.06.20	20:08	20:09	00:01	132kV RTSS Keonjhar Feeder	O/C (R PH), Ia=219.6A, Ib=174.5A, Ic=62.32A, Inm = 6.532A, Ind= 5.962A	RTSS Keonjhar	00:01		0.000108776
4	Kesinga	01.06.20	23:25	23:28	00:03	132kV VAL(Lanjigarh)- Kesing Fdr.	At Kesinga end: O/C, B Phase.	Powmex, Kesinga, Kesinga Trac., Bhawanipatna, Junagarh.	00:03		0.002925655
5	Jharsuguda	01.06.20	06:14	02:52	00:46	132 kv Ultratech Fdr.	E/F	Ultratech	00:46		0.007274249
6	Ranasinghpur	02.06.20	08:16	15:45	07:29	132KV Ranasinghpur-Kesura	DP Relay Operated	Kesura	00:41	Kesura grid availed power supply from Nimapada end at 08:57 Hrs.	0.012336626
7	Bargarh	02.06.20	14:04	14:09 14:09 14:09	00:05 00:05 00:35	40 MVA Transformer-1 40 MVA Transformer-2 40 MVA Transformer-3	E/F E/F E/F	Bargarh	00:05		0.004370727
8	Tarkera	02.06.20	15:37	03.06.20 15:41	24:04:00	220 kV Tarkera Rengali Ckt	At Tarkera end: DP Relay, Zone 1, 105.54 Kms, L2-N, IL2=1.54 kA, In=1.54 kA At Rengali end: B/U Relay, IA=59.9A, IB=2260A, IC=58.6A, IN=1230.49A, IG=2343.77A 33 KV side tripped on O/C(R,Y,B phase) along with M/R. 132 KV side tripped on O/C(R-Phase) along with M/R and 33 KV side on M/R.	Chandiposh TSS	24:04:00		0.072777807
9	Pattamundai	03.06.20	13:56	13:58 13:59	00:02 00:03	12.5 MVA Transformer-III 20 MVA Transformer-II	33 KV side tripped on M/R. 132 KV side tripped on O/C(R-Phase) along with M/R and 33 KV side on M/R.	Pattamundai	00:02	TRF-II simultaneously tripped with TRF-III and TRF-4 was on L/C for painting purpose.	0.000717188
10	Pattamundai	03.06.20	14:34	14:36 14:36	00:02 00:02	12.5 MVA Transformer-III 20 MVA Transformer-II	33 KV side tripped on M/R. 132 KV side tripped on O/C(R-Phase) along with M/R and 33 KV side on M/R.	Pattamundai	00:02	TRF-II simultaneously tripped with TRF-III and TRF-4 was on L/C for painting purpose.	0.000717188
11	Pattamundai	03.06.20	17:32	17:34	00:02	132 KV SC Kendrapara-Pattamundai Line	Tripped on O/C(Y-Phase) along with M/R at Pattamundai end.	Pattamundai, Olaver, Chandbali.	00:02		0.001089701
12	Angul	03.06.20	17:41	17:55	00:14	132KV Angul-Boinda Fdr	O/C on R-phase, DP, 2426.2 A, 33.665 km, L1-N	Boinda, Traction, Rairakhol, Traction.	00:14		0.00462106
13	Tarkera	04.06.20	16:06	17:51	01:45	220 kV Tarkera Rengali Ckt	Tarkera end: DP Relay, Zone 1, 102.31 Kms, L1-N, IL1=1.56 kA, In=1.44 kA. Rengali end: B/U Relay, IA=2333.2A, IB=71.1A, IC=68.7A, IN=1222.0A, IG=2396.23A.	Chandiposh TSS	01:45		0.005292015
14	Palaspanga	04.06.20	16:38	17:05	00:27	132kv Joda-PPG Feeder	O/C (R,Y,B PH), Ia=679.5A, Ib=706.6A, Ic=620.6A, Ig=9.9A, In=0.11A	ESIL, Patnaik Steel, RTSS Keonjhar, Palaspanga	00:27		0.017084815
15	Budhipadar	04.06.20	16:41	17:22 16:44	00:41 00:03	132 KV Budhipadar-Sundargarh Ckt-I 132 KV Budhipadar-Sundargarh Ckt-II	At Budhipadar End D/P operated in Zone-I, FL= L2-E, F.D=5.7Kms, IL2=6.46KA At Budhipadar End D/P operated in Zone-I, FL= Bphase-G, F.D=4.61Kms, Ib= 6.563KA	Sundargarh	00:03		0.000973609
16	Raigangpur	04.06.2020	17:04:00	17:14:00	00:10	132 kv Raigangpur- Kuchinda Fdr.	AGT, IA=1663A, IG=1733A, Z1, 46.39km	Bamra TSS	00:10	BAD WEATHER	0.000945127
17	Kesinga	05.06.20	00:06	00:09	00:03	132kV VAL(Lanjigarh)- Kesing Fdr.	At Kesinga end: O/C, B Phase.	Powmex, Kesinga, Kesinga Trac., Bhawanipatna, Junagarh.	00:03		0.002925655
18	Barpali	05.06.20	10:57	12:35	01:38	132kV Bolangir(New)- Barpali Fdr.	Tripped.	Barpali, RTSS Dungguripali	00:02	P/S availed from Bargarh end at 12:59.	0.000881942
19	Sonepur	05.06.20	11:08	11:36	00:28	132 kv Balangir-Sonepur line	AC Supply failed from Bolangir	Sonepur, Boudh	00:28		0.015471928
20	Palaspanga	05.06.20	11:51	11:52	00:01	132kV RTSS Keonjhar Feeder	O/C	RTSS Keonjhar	00:01		0.000108776
21	Sonepur	05.06.20	12:02	12:13	00:11	132 kv Balangir-Sonepur line	AC Supply failed from Bolangir	Sonepur, Boudh	00:11		0.006078257
22	Kesinga	05.06.20	12:02	12:04	00:02	132kV VAL(Lanjigarh)- Kesing Fdr.	At Kesinga end: O/C, B Phase.	Powmex, Kesinga, Kesinga Trac., Bhawanipatna, Junagarh, Khariar, Knantabanji, Ktantabanji Trac., Nuapada, Nuapada Trac., Sainila.	00:02	Khariar, Ktantabanji, Nuapada, Sainila availing P/S from Kesinga S/S.	0.003307622
23	Sonepur	05.06.20	12:32	12:34	00:02	132 kv Balangir-Sonepur line	AC Supply failed from Bolangir	Sonepur, Boudh	00:02		0.001105138
24	Sonepur	05.06.20	12:40	12:44	00:04	132 kv Balangir-Sonepur line	AC Supply failed from Bolangir	Sonepur, Boudh	00:04		0.002210275
25	Mania	05.06.20	14:02	14:10	00:08	132kV ICCL - Mania Fdr	Tripped at ICCL end.	Mania, OCL, Salipur	00:08		0.004026705
26	Bidanasi	05.06.20	05:45	09:50	05:17	220KV Bidanasi-Mendhasala Ckt-II	Bidanasi End : Main-1 - B-pahae to Ground, Distance-11.17km, Z1, Ib=5.4kAmp. Main-2 - B-pahae to Ground, Distance-11.05km, Ib=5.457kAmp	Cuttack, Phulnakhar Jagatsinghpur, Goreknath Trac.	00:03 0:05	Jumper snapped at Loc: No-69. Power supply resumed to Cuttack through Mendhasala Ckt-I at 13:27 Hrs.	0.003211 0.003170
27	Raigangpur	06.06.2020	01:05:00	01:12:00	00:07	132 kv Raigangpur- Kuchinda Fdr.	BGT, IB=1150A, IG=976A, LOC= 82.76KM, ZONE-2	Bamra TSS	00:07		0.000661589
28	Palaspanga	06.06.20	03:22	03:23	00:01	132kV RTSS Keonjhar Feeder	O/C	RTSS Keonjhar	00:01		0.000108776
29	Palaspanga	06.06.20	07:32	07:33	00:01	132kV RTSS Keonjhar Feeder	O/C	RTSS Keonjhar	00:01		0.000108776
30	Pattamundai	06.06.20	13:21	13:23	00:02	20 MVA Transformer-II	132 KV side tripped on O/C(R-Phase) along with M/R and 33 KV side on M/R.	Pattamundai	00:02	TRF-II simultaneously tripped with TRF-III and TRF-4 was on	0.000717188

Sl. No.	Sub-Station	Date	From	To	Duration (HH:MM)	Lines / Equipments / Generating Units tripped	Relay Indication / Cause	Grid Sub-stations affected (it can be more than one)	Area interruption period	Remarks	Energy Loss in MU
				13:23	00:02	12.5 MVA Transformer-III	33 KV side tripped on O/C(R,Y phase) along with M/R.			L/C for painting purpose.	
31	Kendrapara	06.06.20	13:31	13:45	00:14	132KV Kendrapara-Paradeep Ckt-II	DP Relay, Dist.-2.04km	Kendrapara,Pattamundai, Olaver,Chandbali	00:05		0.004878481
				13:36	00:05	132KV Kendrapara - Marshaghai Ckt-I	B/U,E/F, M/R.				
32	Kendrapara	06.06.20	14:06	16:09	02:03	132KV Kendrapara-Paradeep Ckt-II	DP Relay, Dist.- 4.02km	Kendrapara,Pattamundai, Olaver,Chandbali	00:06		0.005854177
				14:12	00:06	132KV Kendrapara - Marshaghai Ckt-I	B/U,E/F, M/R.				
33	Barbil	06.06.20	17:11	17:30	00:19	132 KV Barbil - Bolani-Beckay Steel fdr	At Rourkela end-DP, Z1, 35.88km, C Phase-G IA=153A, IB=295A, IC=2434A, IG=1994A. At Beckay steel end-DP, Z1, 28.31km, IA=192.8A, IB=298.9A, IC=347.9A.	Barbil, Bolani, Arya Steel, Nalda Traction, BRPL	00:19	Power changeover done; power availed from Joda Grid S/S end.	0.010268908
34	Tarkera	07.06.20	19:00	08.06.20 10:09	15:09	220 kV Tarkera Rengali Ckt	DP Relay, Zone I, 68.85 Km, L3-N, IL3-2.08 kA, In-1.92 kA. Rengali end: DP Relay, Fault= ABS, 242.65 km, L2-L3, IL2=50.77 A, IL3=2982.75A, IN=3170.38A. B/U Relay, IA=61.6, IB=4526.1A, IC=4278.1A, IN=1070.07A, IG=2251.91A.	Chandiposh TSS	15:09		0.045814
35	Mania	08.06.20	05:50	05:57	00:07	132/33KV Transformer I	B Phase, E/F	Mania	00:07		0.000097
				05:58	00:08	132/33KV Transformer II	B Phase, E/F				
36	Kamakhyanager	08.06.20	13:34	13:52	00:18	132 KV OPCL-Kamakhyanager	DP, M/T- 86, 3 phase	Kamakhyanager	00:18	Heavy thunder and rain	0.004324
				17:53	03:19	132 KV Kamakhyanager - Duburi	Auto Trip				
37	Mania	08.06.20	14:58	15:15	00:17	132KV ICCL - Mania Fdr	Tripped at ICCL end.	Mania, OCL, Salipur	00:17		0.00251669
38	Palaspanga	09.06.20	10:34	10:39	00:05	132kv Joda-Palaspanga Feeder	O/C (R,Y,B PH), Ia=435.9A, Ib=495.2A, Ic=508.8A, In = 0.09A, Ig= 31.6A.	ESIL, Patnaik Steel, RTSS Keonjhar, Palaspanga	00:05		0.003163855
				14:14	00:04	40 MVA Transformer-1	E/F				
39	Bargarh	09.06.20	14:10	14:14	00:04	40 MVA Transformer-2	E/F	Bargarh	00:04		0.003496581
				14:21	00:11	40 MVA Transformer-3	E/F				
40	Shamuka	09.06.20	16:26	18:24	01:58	132KV Atri-Argul Ckt-I	Source Failure	Shamuka	01:58	Station supply availed from Puri at 16:45.	0.030407495
				20:38	01:33	132/33KV Transformer -1	O/C				
41	Brajrajnagar	09.06.20	19:05	20:39	01:34	132/33KV Transformer -3	O/C	Brajrajnagar	01:33		0.038511168
				21:55	02:50	132/33KV Transformer -4	E/F				
				21:52	02:47	132/33KV Transformer -5	E/F				
42	Kendrapara	09.06.20	22:23	10.06.20 18:08	19:45	132KV Kendrapara-Paradeep Ckt-II	DP Relay, Dist. - 12.19km	Kendrapara,Pattamundai, Olaver,Chandbali	00:06	Due to snapping of conductor.	0.005854177
				22:29	00:06	132KV Kendrapara - Marshaghai Ckt-I	B/U,E/F, M/R.				
43	Kesinga	11.06.20	15:08	15:13	00:05	132kV VAL(Lanjigarh)- Kesing Fdr.	At Kesinga end: O/C, B Phase.	Powmex, Kesinga, Kesinga Trac., Bhawanipatna, Junagarh, Khariar, Knantabanji, Kantabanji Trac., Nuapada, Nuapada Trac., Sainitala.	00:05	Khariar, Kantabanji, Nuapada, Sainitala availing P/S from Kesinga S/S & changed over to Bolangir there after.	0.008269056
44	Kesinga	11.06.20	14:24	14:26	00:02	132kV VAL(Lanjigarh)- Kesing Fdr.	At Kesinga end: O/C, B Phase.	Powmex, Kesinga, Kesinga Trac., Bhawanipatna, Junagarh, Khariar, Knantabanji, Kantabanji Trac., Nuapada, Nuapada Trac., Sainitala.	00:02	Khariar, Kantabanji, Nuapada, Sainitala availing P/S from Kesinga S/S.	0.003307622
45	Saintala	11.6.20	15:14	15:18	00:04	132KV Bolangir(New)-Saintala Fdr.	Tripped at Balangir end due to fault in the 33kV Fdr-1.	Thusa, Saintala.	00:04	Change over to Kesinga.	0.022598823
46	Saintala	12.06.20	14:30	14:39	00:09	132KV Bolangir(New)-Saintala Fdr.	132kV Kesinga Fdr tripped on E/F, B Phase and caused tripping of Bolangir Fdr simultaneously.	OFB Badmal, Khariar, Kantabanji, Trac., Nuapara, Nuapara Traction.	00:09 0:11		0.000257 0.007151
47	Nuapada	12.06.20	15:51	16:06	00:15	132KV Sainitala-Khariar Line	Tripped from Sainitala: O/C, B Phase.	Khariar, Kantabanji, Kantabanji Trac., Nuapada, Nuapada Trac.	00:15		0.009750906
48	Mania	12.06.20	18:31	18:36	00:05	132kV ICCL - Mania Fdr	Tripped at ICCL end.	Mania, OCL, Salipur	00:05		0.00251669
49	Mania	12.06.20	18:40	18:57	00:17	132kV ICCL - Mania Fdr	Tripped at ICCL end.	Mania, OCL, Salipur	00:17		0.008556747
50	Bidanasi	12.06.20	07:40	03:50	04:44	220KV Bidanasi-Mendhasala Ckt-II	Tripped on O/C Y-phase to ground fault with fault distance-19.04 Km & ly-1.44 KAmp.	Bidanasi, Cuttack, Phulnakhara	00:04	Jumper snapped at Loc. No-50. Supply to Bidanasi Grid, Cuttack Grid & Phulnakhara interrupted for 4 mins as Mendhasala- I feeder was under S/D at that time.	0.007850182
51	Kamakhyanager	14.06.20	11:55	12:15	00:20	132 KV OPCL-Kamakhyanager	O/C	Kamakhyanager	00:16	Heavy Thunder & Lightning	0.000960966
52	Palaspanga	14.06.20	14:46	14:49	00:43	132KV RTSS Keonjhar Feeder	O/C (R PH), Ia=220.8A, Ib=137.7A, Ic=100.1A, Inm = 7.113A.	RTSS Keonjhar	00:43		0.004677359
53	Palaspanga	14.06.20	16:08	16:11	00:03	132KV RTSS Keonjhar Feeder	O/C (R PH), Ia=220.9A, Ib=193.6A, Ic=36.56A, Inm = 6.962A.	RTSS Keonjhar	00:03		0.000326327
54	Palaspanga	14.06.20	18:06	18:09	00:03	132KV RTSS Keonjhar Feeder	O/C (R PH), Ia=220.4A, Ib=166.1A, Ic=60.29A, Inm = 7.074A, Ind= 5.951A	RTSS Keonjhar	00:03		0.000326327
55	Palaspanga	14.06.20	19:01	19:05	00:04	132KV RTSS Keonjhar Feeder	O/C (R PH), Ia=225.6A, Ib=180.1A, Ic=80.2A, Inm = 6.98A, Ind= 5.438A	RTSS Keonjhar	00:04		0.000435103
56	Palaspanga	14.06.20	19:43	19:46	00:03	132KV RTSS Keonjhar Feeder	O/C (R PH), Ia=222.4A, Ib=160.6A, Ic=70.76A, Inm = 6.84A, Ind= 7.23A	RTSS Keonjhar	00:03		0.000326327
57	Ranasinghpur	15.06.20	00:30	00:53	00:23	132KV Chandaka-Ranasinghpur	DP Relay Operated	Ransinghpur, Kesura	00:23		0.029757436
58	Nimapara	15.06.20	00:30	01:00	00:30	132KV Nimapara-Chandaka Feeder	DP Relay Z-1, Distance 93.02 KM, Ib- 1.97 KA Bph-E	Nimapara, Konark	00:30		0.02085

Sl. No.	Sub-Station	Date	From	To	Duration (HH:MM)	Lines / Equipments / Generating Units tripped	Relay Indication / Cause	Grid Sub-stations affected (it can be more than one)	Area interruption period	Remarks	Energy Loss in MU
	Chandaka	15.06.20	00:31	00:47 00:45 00:49 00:40	00:16 00:45 00:49 00:40	220/132 kV Auto-I 220/132 kV Auto-I 220/132 kV Auto-III 220/132 kV Auto-IV		Chandaka, Bhubaneswar	00:09		0.01972533
59	Khariar	15.06.20	09:30	09:33	00:03	132KV Saintala-Khariar Line	Tripped from Saintala	Khariar, Kantabanji, Kantabanji Trac., Nuapada, Nuapada Trac.	00:03		0.00195
60	Bhograi	15.06.20	14:49	18:33 18:28	03:43 03:06	132KV Baripada (PG)-Bhograi Fdr. 132KV Jaleswar -Baripada (PG) Fdr.	At Bhograi end: DP, Z1, R-B-Gnd, 38.7km ,IR-528.2 A, IB-74 A. At Baripada(PG) end: DP, Y-B Phase, 29.63 Km , Z1 , ly 2.69 kA , Ib 2.51 kA	Jaleswar, Jaleswar Trac., Bhograi	00:28	132 kV Jaleswar-Bhograi Fdr tripped simultaneously P/S availed from Bast end through	0.013353901
61	Bargarh	16.06.20	14:06	17:34	00:28	132kV Bargarh- Katapali	E/F	Bargarh, ACC Cement.	00:28	Due to the failure of the R Ph 33kV LA of Transformer No-3.	0
62	Palaspanga	17.06.20	19:52	19:55	00:03	132kV RTSS Keonjhar Feeder	O/C (R PH), Ia=219.3A, Ib=192.7A, Ic=33.22A, Inm = 6.948A, Ind= 5.346A	RTSS Keonjhar	00:03		0.000326327
63	Palaspanga	18.06.20	15:04	15:06	00:02	132kV RTSS Keonjhar Feeder	O/C (R PH), Ia=220.2A, Ib=157.0A, Ic=70.75A, Inm=6.578,Ind=5.235	RTSS Keonjhar	00:02		0.000217552
64	Palaspanga	19.06.20	10:25	10:27	00:02	132kV RTSS Keonjhar Feeder	O/C (R PH), Ia=219.9A, Ib=143.5A, Ic=67.71A, Inm = 6.6A, Ind= 5.75A	RTSS Keonjhar	00:02		0.000217552
65	Palaspanga	19.06.20	10:39	10:41	00:02	132kV RTSS Keonjhar Feeder	O/C (R PH), Ia=220.9A, Ib=171.2A, Ic=79.91A, Inm = 7.15A, Ind= 7.09A	RTSS Keonjhar	00:02		0.000217552
66	Palaspanga	19.06.20	17:46	17:49	00:03	132kV RTSS Keonjhar Feeder	O/C (R PH), Ia=220.5A, Ib=181.5A, Ic=46.38A, Inm = 6.853A, Ind= 6.273A	RTSS Keonjhar	00:03		0.000326327
67	Palaspanga	20.06.20	09:44	10:11	00:25	132KV MSP feeder	O/C	MSP	00:25		0.004419167
68	Bangiriposi	20.06.20	12:39	13:54	01:15	132kV Baripada (PG)-Bangiriposi Fdr.	At Baripada (PG) end:- DP, E/F, Z2, R-E, 17.33km, 1.02kA.	Bangiriposi, Rairangpur, Karamia, Dhenkkote.	01:15		0.045354147
69	Palaspanga	20.06.20	18:21	18:23	00:02	132kV RTSS Keonjhar Feeder	O/C (R PH), Ia=220.1A, Ib=167.2A, Ic=58.87A, Inm = 7.006A, Ind= 5.805A	RTSS Keonjhar	00:02		0.000217552
70	Palaspanga	20.06.20	23:09	23:11	00:02	132kV RTSS Keonjhar Feeder	O/C (R PH), Ia=219.6A, Ib=188.7A, Ic=35.27A, Inm = 7.132A, Ind= 6.021A	RTSS Keonjhar	00:02		0.000217552
71	Kendrapara	21.06.20	06:00	06:14	00:14	132KV Kendrapara-Chandikhol Ckt-I	B.U./E/F, M/R.	Chandikhole	00:14		0.006815992
72	Palaspanga	21.06.20	12:46	12:48	00:28	132kV RTSS Keonjhar Feeder	O/C (R PH), Ia=220.3A, Ib=143.4A, Ic=31.66A, Inm = 7.332A, Ind= 6.043A	RTSS Keonjhar	00:28		0.003045722
73	Kendrapara	22.06.20	05:45	05:56 06:12	00:11 00:27	132KV Kendrapara-Paradeep Ckt-II 132KV Kendrapara - Marshaghai Ckt-I	B.U./E/F, M/R. DP Relay,Dist.-13.13km, Y-Ph_Z1	Kendrapara,Pattamundai, Olaver,Chandbali	00:11		0.000975696
74	Palaspanga	22.06.20	09:34	09:36	00:02	132kV RTSS Keonjhar Feeder	O/C (R PH), Ia=220.8A, Ib=192.4A, Ic=34.65A, Inm = 6.819A, Ind= 5.729A	RTSS Keonjhar	00:02		0.000217552
75	Palaspanga	22.06.20	16:48	16:50	00:02	132kV RTSS Keonjhar Feeder	O/C (R PH), Ia=231.5A, Ib=178A, Ic=61.02A, Inm = 7.018A, Ind= 6.258A	RTSS Keonjhar	00:02		0.000217552
76	Bangiriposi	23.06.20	08:51	10:10	01:19	132kV Baripada (PG)-Bangiriposi Fdr.	At Baripada (PG) end:- DP, E/F, Z2, R-E, 17.02km, 1.051kA.	Bangiriposi, Rairangpur, Karamia, Dhenkkote.	01:19		0.047773035
	Joda	23.06.20	11:41	12:56 12:29	01:15 12:29	220 kV Joda-TTSP Ckt-I 220 kV Joda-TTSP Ckt-II	Tripped from both ends Tripped from Joda end	JODA, Bunsapani Trac., FAP, JSPL, TATA St., TSL	00:48		0.128862309
77	Tarkera	23.06.20	19:09	19:49	00:40	132 kV Tarkera Chhend Ckt I	DP Relay (Loop- A_ G, Distance-8.96 Kms , Ia-5.34 kA , In-4.84 kA)	Chhend, Nuagon Trac., SGMIL	00:40		0.03643071
78	Kamakhyanager	24.06.20	03:34	03:55 03:56	00:21 00:22	132 KV Kamakhyanager - Duburi 132 KV OPCL-Kamakhyanager	O/C, M/T- 86 O/C, M/T- 86	Kamakhyanager	00:21		0.005045072
79	Bargarh	24.06.20	10:56	11:01	00:05	132 KV Katapali-Bargarh Fdr.	E/F	Bargarh, ACC Cement	00:05		0.00441766
80	Kesinga	24.06.20	20:33	20:35	00:02	132kV VAL(Lanjigarh)- Kesing Fdr.	At Kesinga end: O/C, B Phase.	Powmex, Kesinga, Kesinga Trac., Bhawanipatna, Junagarh.	00:02		0.001950436
81	Kesinga	24.06.20	21:28	21:30	00:02	132kV VAL(Lanjigarh)- Kesing Fdr.	At Kesinga end: O/C, B Phase.	Powmex, Kesinga, Kesinga Trac., Bhawanipatna, Junagarh.	00:02		0.001950436
82	Kesinga	24.06.20	23:27	23:53	00:26	132kV VAL(Lanjigarh)- Kesing Fdr.	At Kesinga end: O/C, B Phase.	Powmex, Kesinga, Kesinga Trac., Bhawanipatna, Junagarh.	00:26		0.025355673
83	Kesinga	25.06.20	00:33	00:34	00:01	132kV VAL(Lanjigarh)- Kesing Fdr.	At Kesinga end: O/C, B Phase.	Powmex, Kesinga, Kesinga Trac., Bhawanipatna, Junagarh.	00:01		0.000975218
84	Palaspanga	25.06.20	08:06	08:08	00:02	132kV RTSS Keonjhar Feeder	O/C (R PH), Ia=221.9A, Ib=139.9A, Ic=68.83A, Inm = 6.929A, Ind= 5.235A	RTSS Keonjhar	00:02		0.000217552
85	Therubali	27.06.20	00:17	00:24	00:07	132 KV Kesinga Feeder	ABCPhase at Therubali end.	Muniguda, VAL(Lanjigarh), Powmex, Kesinga, Kesinga Trac., Bhawanipatna, Junagarh.	00:07		0.007157083
86	Rairakhol	27.06.20	08:50	09:01	00:11	132 kV Rairakhol-Boinda Fdr.	Tripped at Boinda end.	Rairakhol, Fraction.	00:11		0.002817037
87	Bhuanjanagar	27.06.20	13:55	15:10	01:15	220kV Bhuanjanagar - Aska ckt-I	B PH TO E/F,Z-I,D=1.2KM	Aska New, Aska	00:23		0.016923173
234	Tarkera	27.06.20	17:04	18:37	01:33	220 kV Tarkera Bonai Ckt	DP Relay(Distance-45.36 Kms , Loop- L3_N , I13-5.93 kA , In-5.92 kA)	Bonai	00:10		0.001389612
	Barkote	27.06.20	17:04	17:14	00:10	220 kV Barkote-Bonai feeder					

Sl. No.	Sub-Station	Date	From	To	Duration (HH:MM)	Lines / Equipments / Generating Units tripped	Relay Indication / Cause	Grid Sub-stations affected (it can be more than one)	Area interruption period	Remarks	Energy Loss in MU
88	Kesinga	27.06.20	19:27	19:30	00:03	132kV VAL(Lanjigarh)- Kesing Fdr.	At Kesinga end: O/C, B Phase.	Powmex, Kesinga, Kesinga Trac., Bhawanipatna, Junagarh.	00:03		0.002925655
89	Balasore	28.06.20	08:44	08:53	00:09	132KV Balasore-Somanathpur Fdr	At Balasore end: ABB REX: Trip L1, L2, L3.	IMAMI, Stork, Somnathpur	00:09	All 3 nos of LA failed in 33KV HIL fdr at Somanathpur end	0.000935604
90	Paradeep	28.6.20	15:06	15:10	00:04	132KV Paradeep-Tirtol Fdr.	C-G, E/F, 1.9km	Tirtol, Jagatsinhpur, Goreknath Trac.	00:04		0.003113698
91	Bangiriposi	29.06.20	11:43	15:17	03:34	132kV Baripada (PG)-Bangiriposi Fdr.	At Baripada (PG) end: DP, Z1, Y-B Phase, 3.828km, Iy=5.74kA, Ib=5.442kA.	Karanjia, Dhenkikote, Rairangpur, Bangiriposi,	0:32 0:38 0:41	Karanjia & Dhenkikote availed P/S from Palasponga at 12:15 Hrs. P/S extended to Rairangpur & Bangiriposi from Karanjia end at 12:21 & 12:24 Hrs respectively.	0.005935 0.007006 0.009630
92	Nuapada	29.06.20	11:57	12:02	00:05	132kV Khariar-Nuapada Line	Tripped at Santala end: Due to Circuit Overloading	Khariar, Kantabanji, Kantabanji Trac., Nuapada, Nuapada Trac.	00:05		0.000741892
93	Bargarh	29.06.20	13:04	13:22 13:22 13:22	00:18 00:18 00:18	40 MVA Transformer-1 40 MVA Transformer-2 40 MVA Transformer-3	E/F E/F E/F	Bargarh	00:18		0.015734616
94	Ranasinghpur	29.06.20	13:21	13:27	00:06	132KV Chandaka-Ranasinghpur	P/S failed from Chandaka Grid end	Ransinghpur, Kesura	00:06	P/S failed from Chandaka Grid end	0.007762809
95	Nimapara	29.06.20	13:21	13:26	00:05	132KV Nimapara-Chandaka Feeder	DP Relay Z-1, Distance 12.53KM, Ib= 4.077 KA C-N	Nimapara, Konark	00:05		0.003475306
96	Nuapada	29.06.20	13:27	13:31	00:04	132kV Khariar-Nuapada Line	Tripped at Santala end: Due to Over Current B-Ph Fault	Khariar, Kantabanji, Kantabanji Trac., Nuapada, Nuapada Trac.	00:04		0.000741892
97	Nuapada	29.06.20	17:17	17:27	00:10	132kV Khariar-Nuapada Line	Tripped at Santala end: Due to Circuit Overloading	Khariar, Kantabanji, Kantabanji Trac., Nuapada, Nuapada Trac.	00:10		0.001854731
98	Kamakhyanagar	29.06.20	17:18	17:34	00:16	132 KV OPCL-Kamakhyanagar	Tripped at OPCL end	Kamakhyanagar	00:16		0.003843865
99	Bargarh	30.06.20	03:53	03:58 03:58 03:58	00:05 00:05 00:05	40 MVA Transformer-1 40 MVA Transformer-2 40 MVA Transformer-3	E/F E/F E/F	Bargarh	00:05		0.004370727
100	Ranasinghpur	30.06.20	09:03	09:21	00:18	132KV Chandaka-Ranasinghpur	DP Relay Operated	Ransinghpur, Kesura	00:18		0.023288428
101	Nimapara	30.06.20	09:03	09:21	00:18	132KV Nimapara-Chandaka Feeder	DP Relay Z-2, Distance 105.97KM, B-G-T	Nimapara, Konark	00:18		0.012511102
	Chandaka	30.06.20	09:04	09:15 09:13 09:15 09:15	00:11 09:13 09:15 09:15	Auto-I Auto-II Auto-III Auto-IV		Chandaka, Bhubaneswar	00:09		0.019722533
102	Palasponga	30.06.20	11:05	11:07	00:02	132kV RTSS Keonjhar Feeder	O/C (R PH), Ia=220.7A, Ib=167.3A, Ic=60.99A, Inm = 7.221A, Ind= 5.807A	RTSS Keonjhar	00:02		0.000217552

STATEMENT OF UFR OPERATION IN GRIDCO SYSTEM DURING THE MONTH OF JUNE-2020											
Sl.No	UFR Stage	Name of S/S	Name of feeder	Voltage level KV	Tripping details		Load Relief in MW	Restoration details		Duration of interruption in Minutes	Remarks
					Date	Time		Date	Time		
Nil											

MAJOR EVENT FOR THE MONTH OF JUNE - 2020		
Sl. No	Date	Details of event
1	25.06.2020	At 16:35 Hrs, 132 kV Samangara -Satasankha ckt -I charged. At 16:40 Hrs, 132 kV Samangara -Satasankha ckt -II charged. At 19:45 Hrs, 20 MVA, 132/ 33 kV Power Trf -II charged at Grid S/S, Satasankha.