

SYSTEM PERFORMANCE REPORT



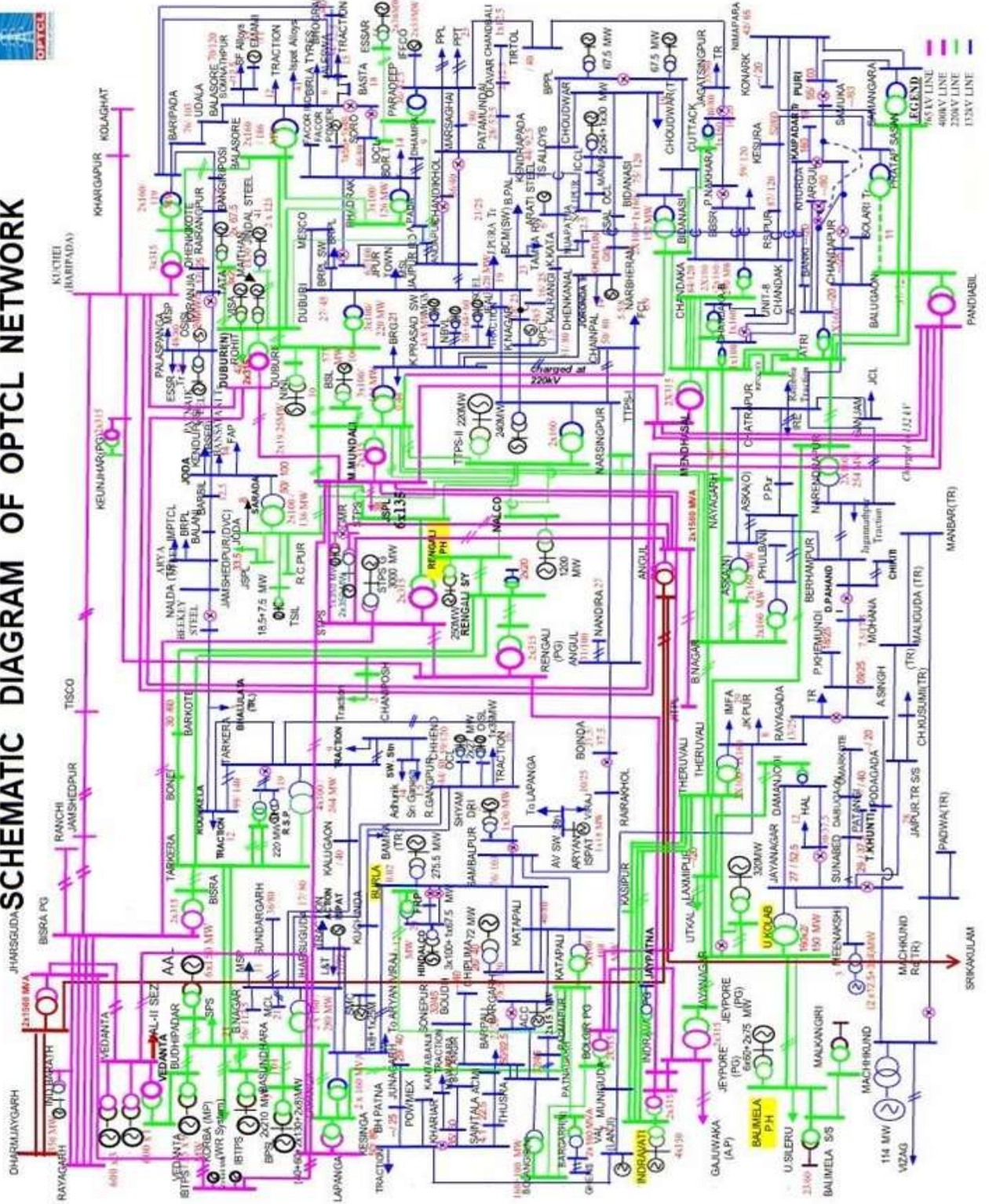
MARCH'2020

SLDC, OPTCL
BHUBANESWAR – 17

CONTENTS

Sl. No.	DESCRIPTION	PAGE
1	SINGLE LINE SCHEMATIC DIAGRAM OF GRIDCO NETWORK	1
2	SUMMARY REPORT	2
2	GENERATION CAPACITY OF GRIDCO, CENTRAL SECTOR GENERATION & CPPs	3
3	DAILY ENERGY GENERATION, EXCHANGE AND DEMAND	5
4	PERFORMANCE OF GENERATORS & ISGS DRAWAL	5
5	GENERATION SHARING & AVG. DEMAND CURVE	6
6	COMPARISON OF SYSTEM DEMAND WITH PREVIOUS YEAR	7
7	MONTHLY GENERATION OF STATE GENERATORS, IPP& CPP	8
8	DAILY GENERATION SHARING DURING PEAK DEMAND	9
9	RESERVOIR LEVEL OF DIFFERENT HYDRO POWER STATIONS	10
10	VOLTAGE PROFILE (220 kV / 132kV)	13
11	MONTHLY FREQUENCY PROFILE	15
12	FREQUENCY DISTRIBUTION	15
13	MONTHWISE % OF TIMES FREQ. WITHIN STD. BAND (49.50 TO 50.05 Hz)	16
14	MONTHLY FREQ. WITHIN STANDARD BAND & ABOVE (2012-14, 2015 - 16, 2016 - 17)	16
15	LOAD DATA OF GRID SUB STATIONS	17
16	AUTO TRANSFORMER LOADS	22
17	SYSTEM DISTURBANCES	23
18	STATEMENT OF UFR OPERATION	30
19	MAJOR EVENTS	31

SCHEMATIC DIAGRAM OF OPTCL NETWORK



SUMMARY REPORT FOR MARCH- 2020

A. Voltage Profile

220 KV

			<u>Date & Time</u>	<u>Location</u>
Maxm.	-	242.72 kV	19.03.2020 20:45Hrs	Bhanjanagar.
		>240 KV		Bhanjanagar, Jayanagar, Lapanga, Laxmipur, Nayagarh.
Minm.	-	198.03 kV	17.03.2020 17:15 Hrs	Katapali
		< 200 KV		Katapali. Joda.

132 KV

Maxm.	-	146.53 kV	20.03.2020 05:45 Hrs	Narendrapur
		>145 KV		Narendrapur
Minm.	-	113.74 kV	17.03.2020 17:15 Hrs	Bargarh
		< 120 KV		Bargarh, Katapali.

B. Frequency Profile

Date & Time

Maxm.	-	50.31 Hz	22.03.20 17:04 Hrs.
Minm.	-	49.69 Hz	31.03.20 05:12 Hrs.
Average	-	50.01 Hz	
% of time the freq. is within 49.9 Hz to 50.05 Hz (IEGC band)			69.24%
% of time the freq. is > 50.05 HZ			25.39%
% of time the freq. is ≤49.9 HZ			5.37%
% of time the freq. is < 48.5 HZ			0.00%

C. Demand Profile

Peak System Demand	3857.37 MW	At 20:00 Hrs on 17.03.20
Minimum System Demand	1957.80 MW	At 21:00 Hrs on 19.03.20
Average System Demand	3083 MW	

D. Major events

Sl. No	Date	Details of event
1	06.03.2020	At 17:08 Hrs, 220/33 kV Grid S/S , Narsinghpur charged by LILO arrangement in 220 kV Meramundali Bhanjanagar ckt -I (previously charged by 'T' arrangement in 220 kV Meramundali Bhanjanagar ckt -I)
2	13.03.2020	At 16:14 Hrs - 63 MVA, 132/33 kV Power transformer -III at Grid S/S, Balasore charged (capacity added from 40 MVA to 63 MVA).

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.

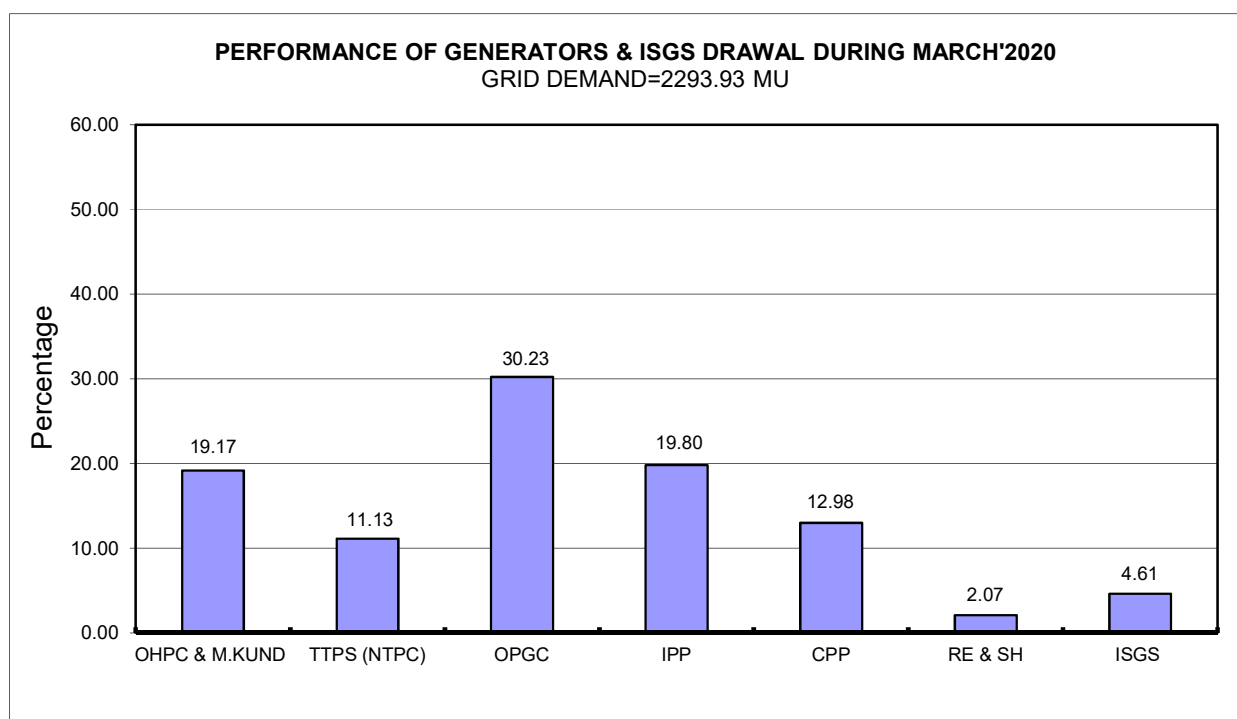
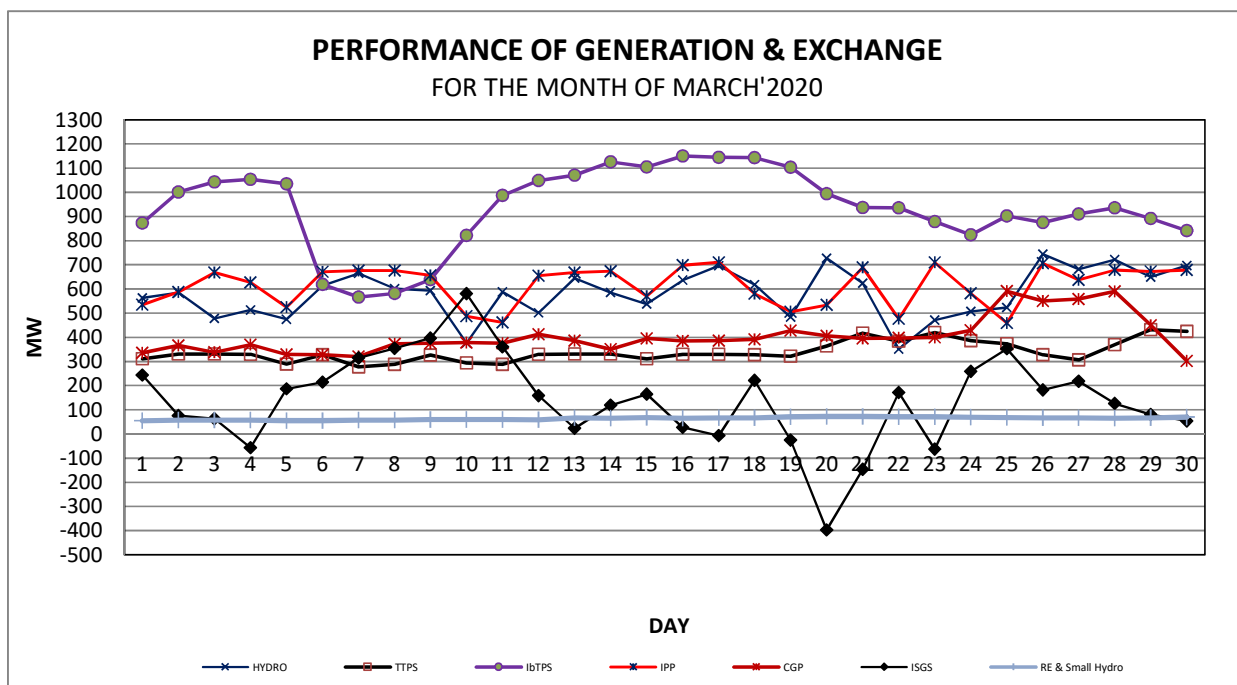
CAPACITY OF IPP, CPP, SMALL HYDRO & RENEWABLE

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		

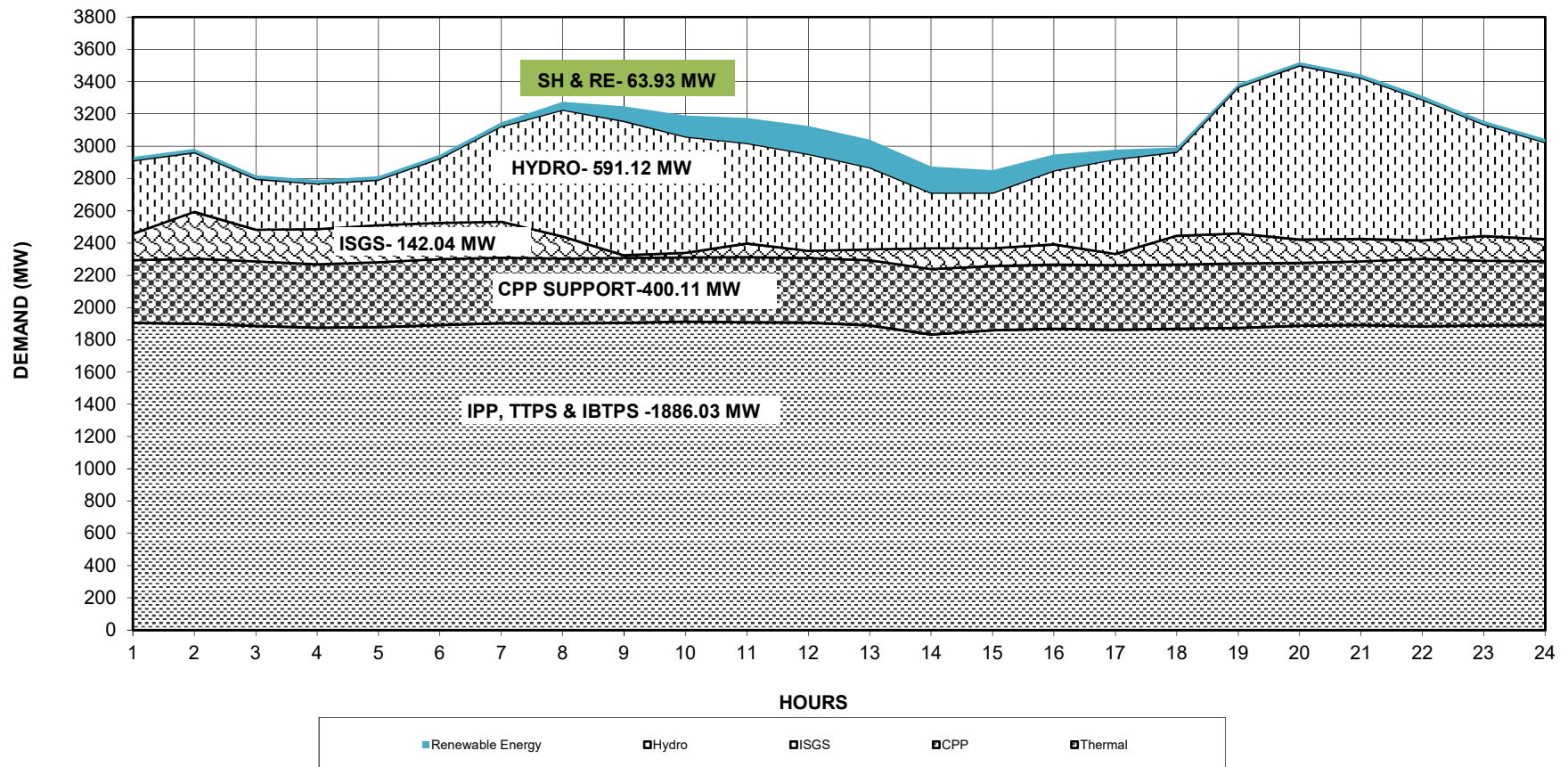
RENEWABLE PROJECTS

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	1.5	1.5	SOLAR	SELF	33 kV
		TOTAL	391.5			
	GRAND TOTAL (SMALL HYDRO,IPP & CPP)		19247.05			

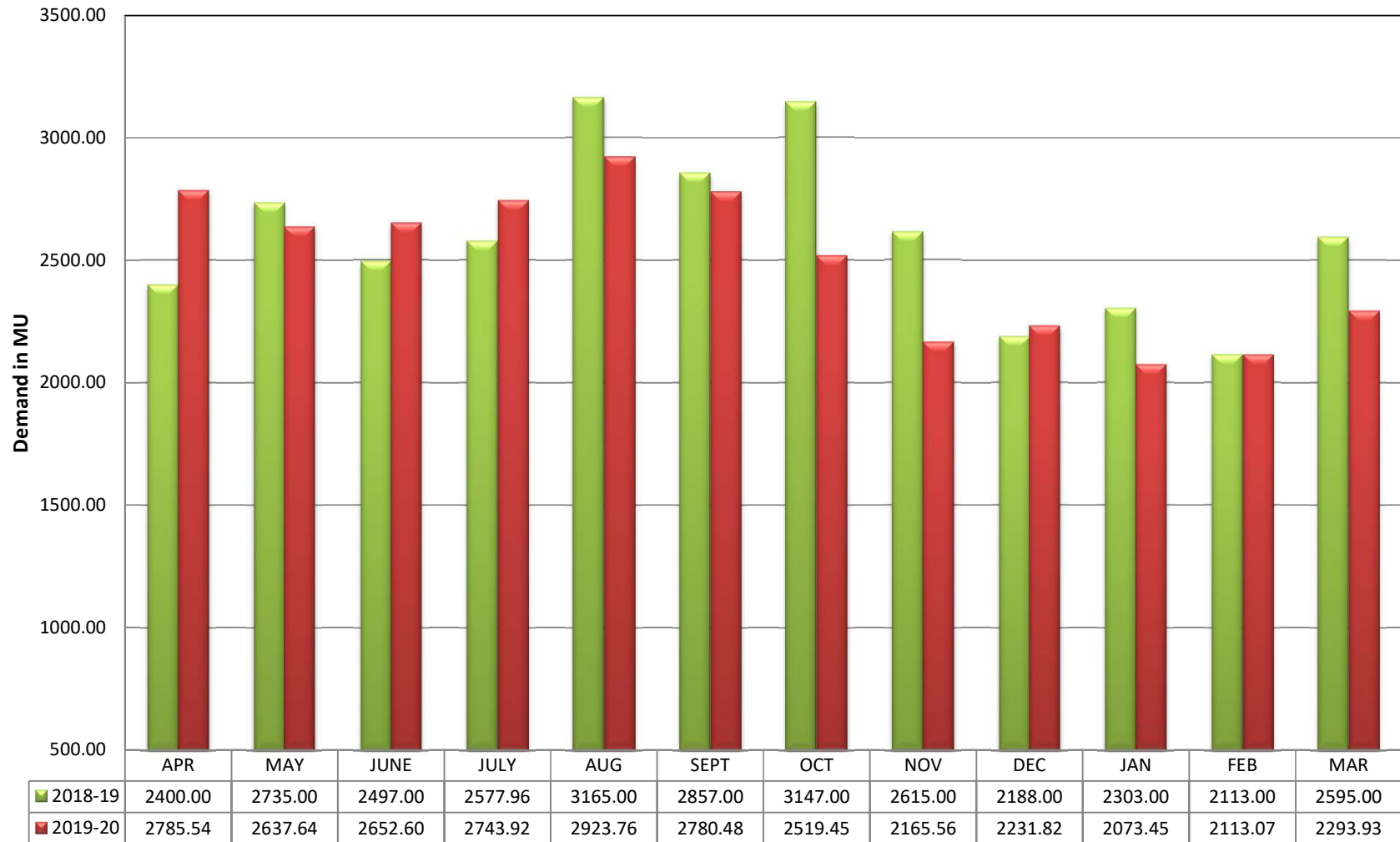


AVERAGE GRID DEMAND [HOURLY] FOR THE MONTH OF MARCH'2020

Average Demand=3083.24 MW



COMPARISON SYSTEM DEMAND WITH PREVIOUS FINANCIAL YEAR



MONTHLY GENERATION & DEMAND REPORT FOR THE STATE OF ODISHA IN THE MONTH OF MARCH- 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	8.990	6.383	5.932	0.000	0.000	0.000	0.000	21.305	28.636	0.140	113.50	20	9.00
2	Chipilima	7.448	0.672	3.764	-	-	-	-	-	11.884	15.973	0.079	33.91	5	1.00
4	Balimela	0.000	0.000	1.480	0.366	24.078	20.204	14.708	14.812	75.648	101.677	1.410	363.24	1	20.00
5	Rengali	9.358	8.877	6.588	15.849	14.291	-	-	-	54.964	73.877	0.922	252.46	21	10.00
6	Upper Kolab	34.721	22.686	0.520	22.918	-	-	-	-	80.845	108.663	0.326	230.53	24	20.00
7	Upper Indravati	14.306	73.058	47.792	34.048	-	-	-	-	169.204	227.424	1.612	599.92	7	20.00
8	Total Hydro (OHPG)	-	-	-	-	-	-	-	-	413.850	556.250				
9	Machhakund (Orissa drawal)	-	-	-	-	-	-	-	-	27.553	37.034		50.11	4	6.00
10	Total Hydro	-	-	-	-	-	-	-	-	441.403	593.283		1292.04	2	9.00
11	TTPS-I	41.159	43.780	40.566	44.565	-	-	-	-	170.070	228.589		226.39	2	16.00
12	TTPS-II	76.897	30.328	-	-	-	-	-	-	107.225	144.120		217.46	28	22.00
13	Total TTPS	-	-	-	-	-	-	-	-	277.295	372.708	30.619	439.05	29	24.00
14	IBTPS	110.31	116.279	-	-	-	-	-	-	226.587	304.552	26.560	1180.27	15.00	22.00
15	IBTPS-II	-	-	276.087	268.309	-	-	-	-	544.396	731.715	36.419			
16	Total IBTPS	-	-	-	-	-	-	-	-	770.983	1036.267				
17	IPPs & CGPs Support	-	-	-	-	-	-	-	-	702.785	944.604				
18	Total Thermal & IPPs & CGP	-	-	-	-	-	-	-	-	1751.063	2353.579		2657.11	28	22.00
19	Injection by Renewable projects	42.11403	-	-	-	-	-	-	-	42.114	56.605				
20	Total self generation	-	-	-	-	-	-	-	-	2234.580	3003.468	98.088	3902.26	17	10.00

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 :-

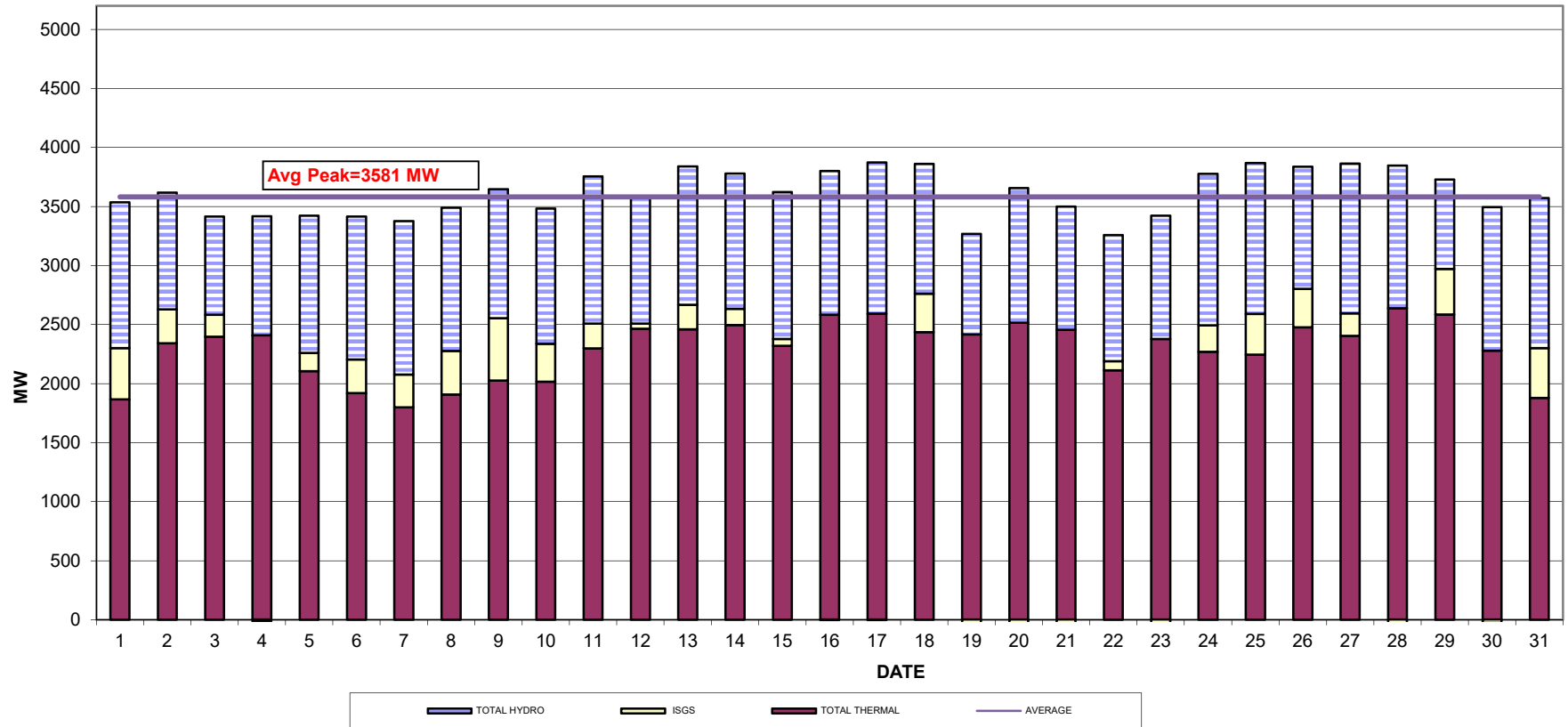
(C)EXCHANGE OF ENERGY WITH CENTRAL SECTOR

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, ghanikhali	4.566	6.136	53.41	23	22.00	132KV JODA-KENDUPOSI		-13.08	-17.58	-5.54	20	4.00	-35.68	13	14.00
2	ACC	0.000	0.000				132KV KALABADIA-BANGIRIPOSI		28.33	38.08	53.22	25	20.00			
3	Action Ispat	0.000	0.000				132KV KALABADIA-BARIPADA		17.67	23.75	35.75	28	22.00			
4	Aryan Ispat,	0.597	0.802				132 KV BHOGRAI-KUCHEI		9.55	12.83	22.28	23	15.00			
5	BPPL	69.094	22.728	121.96	20	1.00	132 KV JALESWAR-KUCHEI		13.99	18.80	33.45	23	15.00			
6	BPSL, Jharsuguda	16.910	22.728	98.66	12	14.00	220KV JODA-JAMSHEDPUR		-14.79	-19.88	47.99	10	17.00	-81.91	7	21.00
7	BSL, Meramundali	18.852	25.339	76.34	10	15.00	220KV JODA-RAMCHANDRAPUR		52.83	71.01	116.74	11	16.00			
8	GMR Kamalanga Energy Ltd.(IPP)	184.679	248.224				220KV RENGALI SV- RENGALI P.G-I		-1.45	-1.95	44.46	1	13.00	-42.57	27	18.00
9	HINDALCO, Hirakud	0.082	0.111				220KV RENGALI SV- RENGALI P.G-II		-1.76	-2.36	57.19	1	13.00	-53.18	20	16.00
10	IFFCO, Paradeep	0.0001	0.000				220KV JAYANAGAR JEYPORE PG-I		-52.86	-71.05				-189.80	1	19.00
11	IMFA, Choudwar	30.572	41.091	55.20	30	7.00	220KV JAYANAGAR JEYPORE PG-II		-56.27	-75.63				-199.59	1	19.00
12	JINDAL, New Duburi	4.306	5.787	38.39	25	6.00	220KV RENGALI P.H-KANIHA		-21.68	-29.14	27.66	19	23.00	-157.06	20	24.00
13	JSPL, Angul	40.933	55.018	83.29	23	7.00	220KV TTPS-KANIHA		14.24	19.14	74.63	7	20.00	-36.27	29	13.00
14	Mahavir Ferro Alloys	0.161	0.216				220KV MERAMUNDALI-KANIHA-I		29.49	39.64	81.03	21	12.00			
15	Malithan Ispat Ltd.	0.000	0.000				220KV MERAMUNDALI-KANIHA-II		29.03	39.02	77.81	13	20.00			
16	Meenakshi Power Ltd. (SH)	9.627	12.940				220KV TARAKARA-BISRA-I & II		126.57	170.12	266.67	3	8.00			
17	MSP, Jharsuguda	0.000	0.000				220 KV KALABADIA-BALASORE-I&II		122.46	164.60	242.78	31	23.00			
18	NALCO, Angul	8.86	11.910	89.98	13	22.00	220KV KATAPALI- BOLANGIR(PG)		-58.40	-78.50	53.63	17	18.00	-146.80	10	18.00
19	Narberham	0.138	0.185				220KV SADEPALI - BOLANGIR(PG)		66.93	89.96	237.25	17	18.00	-49.65	19	18.00
20	NBVL, Kharag Prasad	5.330	7.163	39.36	18	8.00	220KV BUDHIPADAR-KORBA-I		-36.74	-49.39	42.92	10	18.00	-127.65	28	8.00
21	NINL, Duburi	0.397	0.533				220KV BUDHIPADAR-KORBA-II		42.08	56.56	129.72	2	4.00	-127.65	28	8.00
22	OCL	0.169	0.227				220KV BUDHIPADAR-KORBA-III		15.42	20.73	76.83	19	19.00	-20.84	7	10.00
23	OPCL, Samal (SH)	6.337	8.517				220KV ATRI- PANDIVIL		150.91	202.84	304.44	12	6.00	-4.42	29	9.00
24	PSAL, Keonjhar	0.000	0.000				220KVSAMANGHARA- PANDIVIL		0.00	0.00	0.00	1	1.00			
25	RSP, Rourkela	0.000	0.000				220KV KEONJIHAR 220KV KEONJIHAR		2.42	3.25	6.08	17	20.00			
26	Shree Ganesh	0.324	0.435				220KV KEONJIHAR 220KV KEONJIHAR		1.63	2.19	4.02	17	20.00			
27	Shyam Metalics	0.208	0.279				400KV INDRAVATI P.H-P.G		-64.31	-86.44	40.27	12	6.00	-238.33	2	11.00
28	SMC Power	0.098	0.131				400KV MERAMUNDALI-KANIHA		112.81	151.62	469.87	1	13.00	-136.48	5	3.00
29	TSIL, Joda	9.637	12.953				400KV MERAMUNDALI-ANGUL-I&II		-78.51	-105.53	97.82	7	20.00	-292.89	29	18.00
31	Vedanta Ltd. (IPP-Unit-2)	249.139	334.864				400KV MENDHASAL - PANDIABIL-I &II		-82.65	-111.08	108.21	10	17.00	-455.26	30	21.00
31	Vedanta, Jharsuguda	33.057	44.431				400KV DUBURI - PANDIABIL		-11.38	-15.29	269.12	30	21.00	-164.44	10	15.00
32	Vedanta, Lanjigarh	0.679	0.913				400KV DUBURI - BARIPADA		64.13	86.19	233.81	28	15.00	-89.11	7	21.00
33	VISA Steel, New-Duburi	1.586	2.132	8.19	30	4.00	400KV VEDANTA-JHARSUGUDA Ckt-I		-49.26	-66.21	108.28	26	11.00	-211.82	31	1.00
34	Yazdani Steel & Power Ltd., J.J Rd	0.063	0.084				400KV VEDANTA-JHARSUGUDA Ckt-II		-49.29	-66.26	108.83	26	11.00	-212.03	31	1.00
35	Vedanta Ltd. (3*600)	6.385	8.582				400KV OPGC-JHARS PG - I		-101.50	-136.42	25.91	10	4.00	-285.27	20	10.00
							400KV OPGC-JHARS PG - II		-101.59	-136.55	25.82	10	4.00	-285.04	20	10.00
	Total support from CPPs	702.785	944.604						104.95	141.06	788.38	10	7.00			

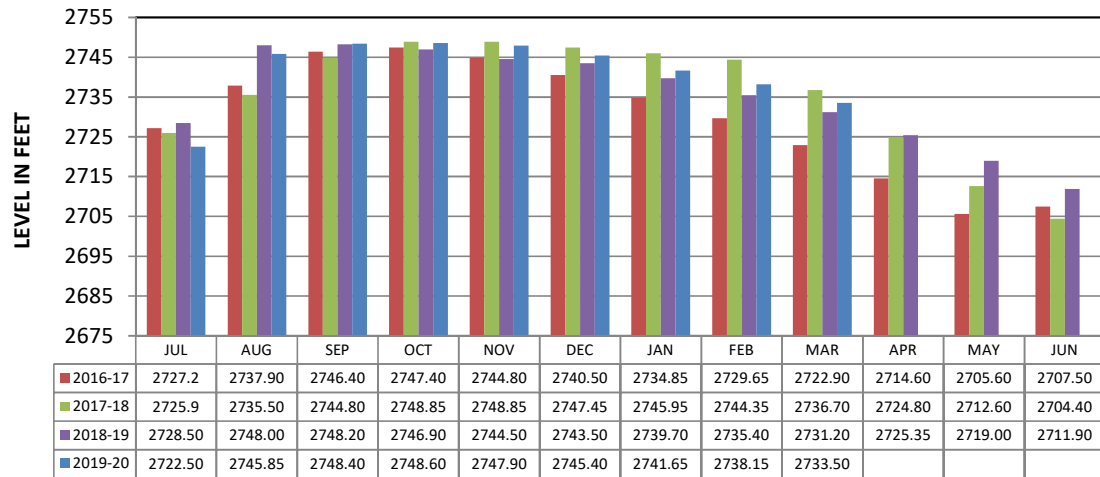
ABSTRACT OF SYSTEM DEMAND

Particulars	Energy MU	Average MW	Peak MW	DATE	TIME
Total gross generation(Including CPP+IPP)	2234.580	3003.468	3872.00	17	20.00
Power Station Auxiliary consumption	98.088	131.839			
Total net generation(Including CPP+IPP)	2136.492	2871.629	3859.84	17	20.00
Net ISGS	104.946	141.057	-2.47	17	20.00
System Demand	2241.438	3012.686	3857.37	17	20.00
Trading					
Average of Peak Demand (MW)		3594.501			
Average of Minimum Demand (MW)		2659.301			

DAILY GENERATION SHARING DURING PEAK DEMAND DURING MARCH- 2020

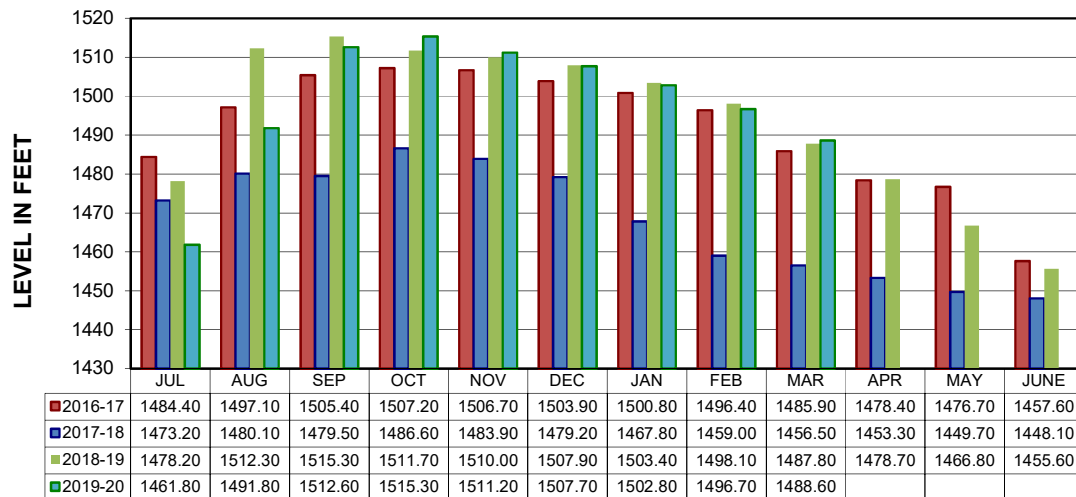


JOLAPUT RESERVOIR LEVEL



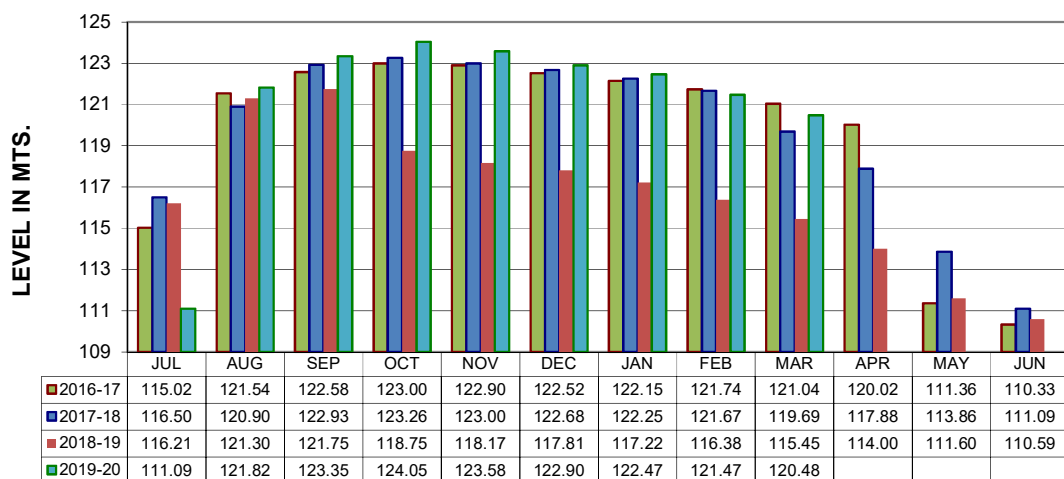
MONTH (End)

BALIMELA RESERVOIR LEVEL



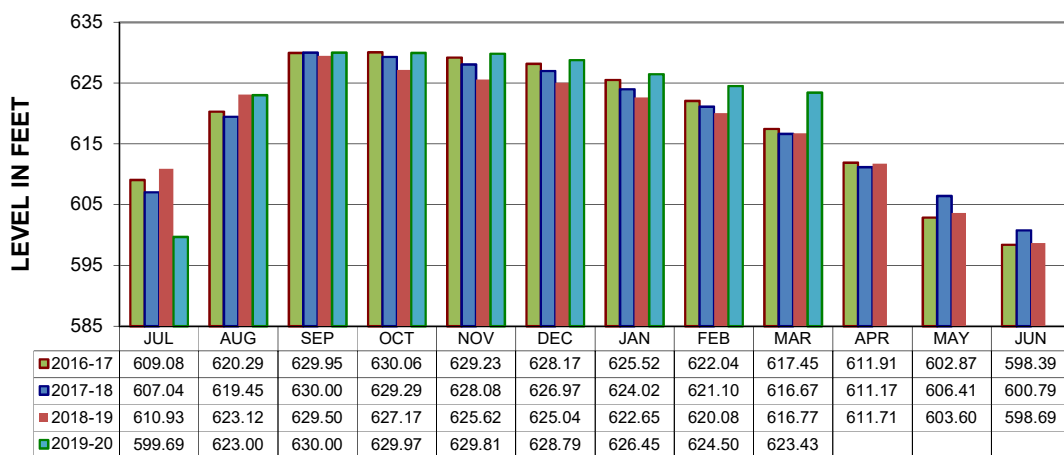
MONTH (End)

RENGALI RESERVOIR LEVEL



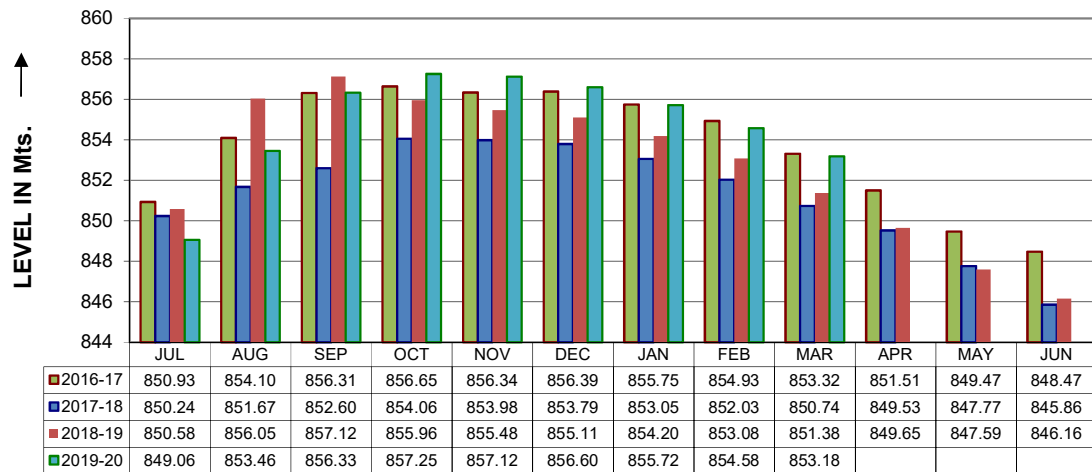
MONTH (End)

HIRAKUD RESERVOIR LEVEL



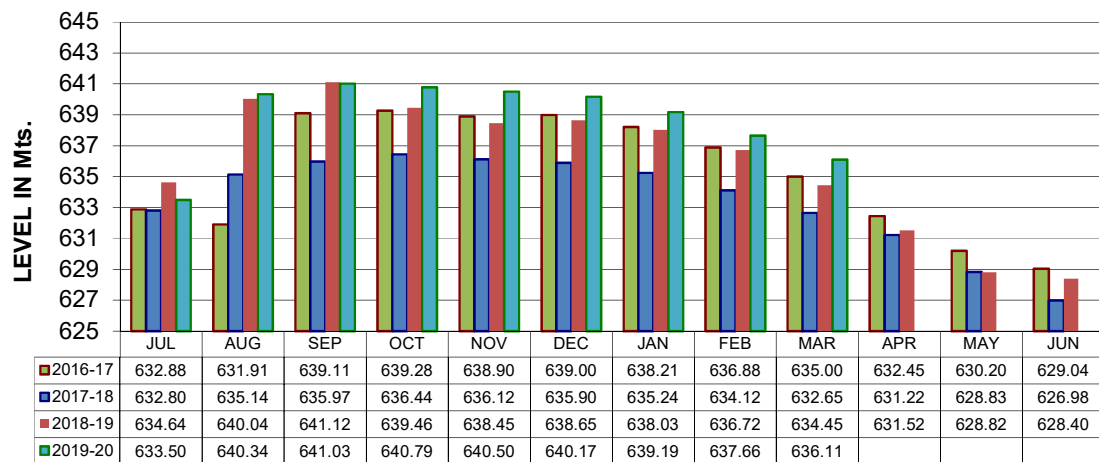
MONTH (End)

U.KOLAB RESERVOIR LEVEL



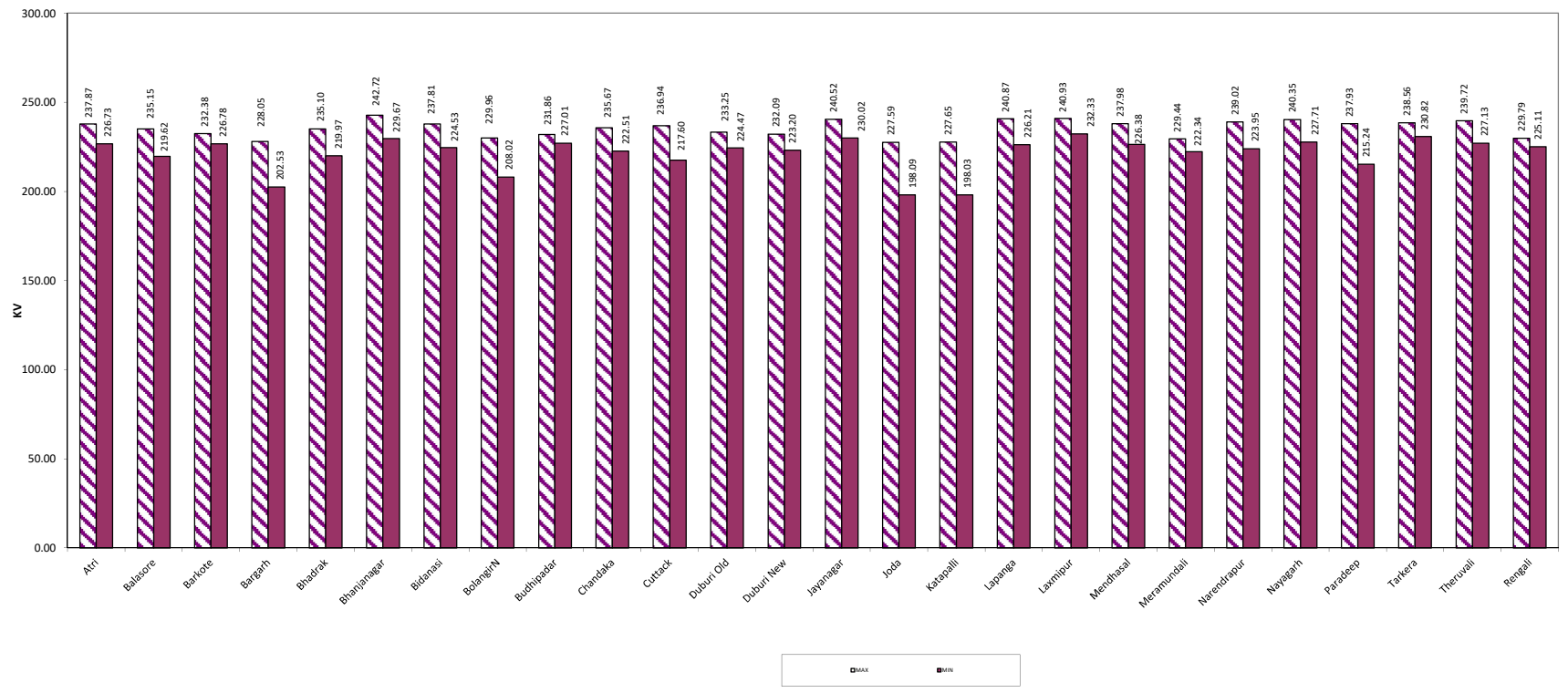
MONTH (End)

INDRAVATI RESERVOIR LEVEL



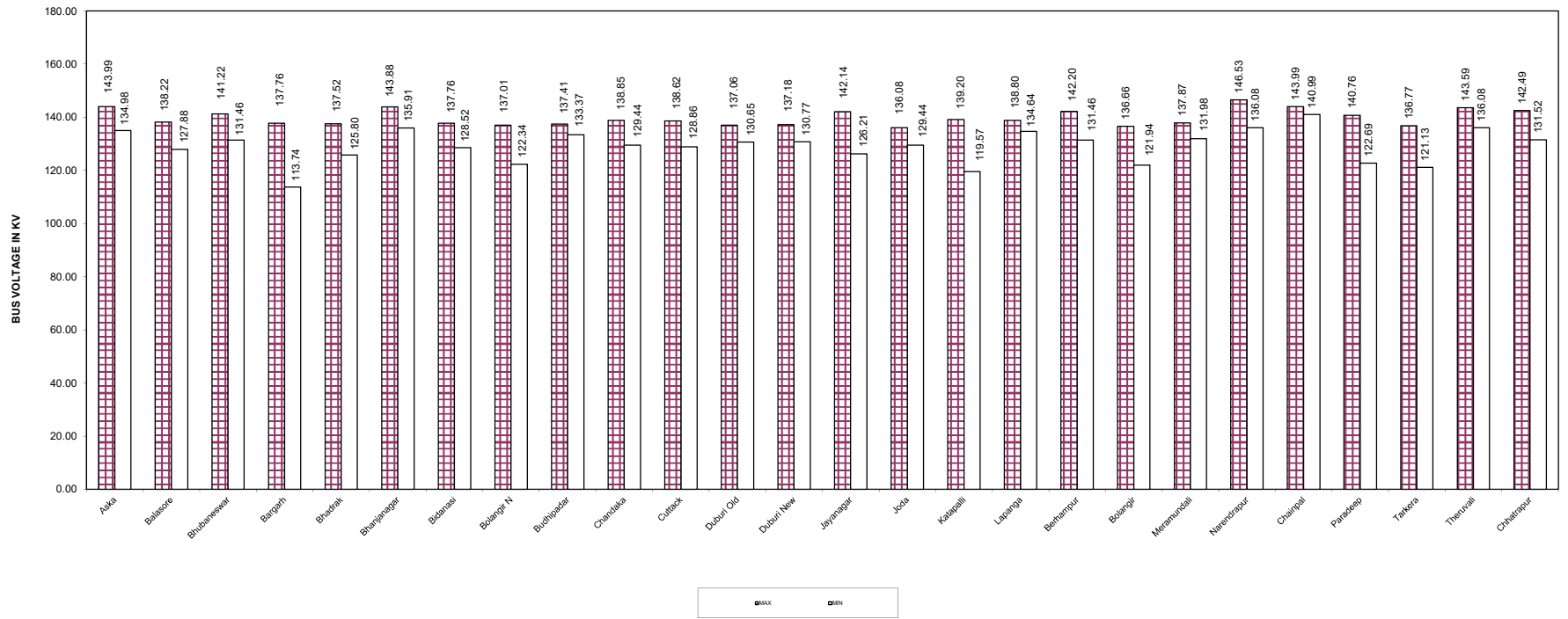
MONTH (End)

VOLTAGE PROFILE OF 220KV S/S FOR MARCH- 2020

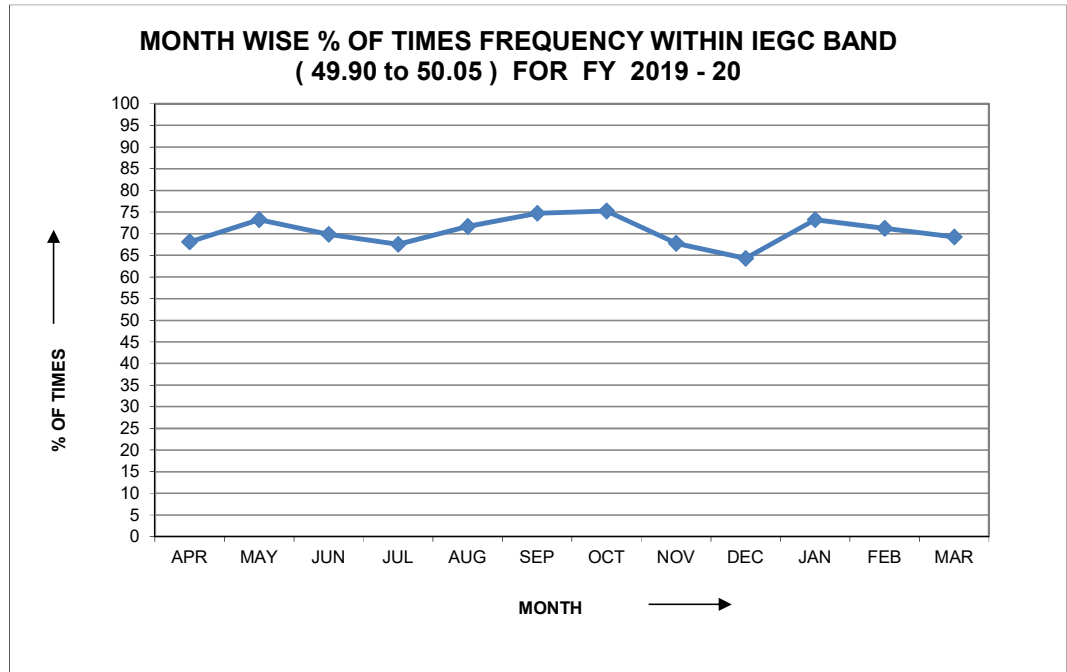


STATION	ATRI		BALASORE		BARKOTE		BARGARH(N)		BHADRAK		BHANJANAGAR		BIDANASI		BOLANGIR		BUDHIPADAR		CHANDAKA		CUTTACK		DUBURI		DUBURI (N)		JAYANAGAR		JODA		KATAPALI		LAPANGA		LAXMIPUR		MENDHASAL		MERAMUNDALI		NARENDRAPUR		NAYAGARH		PARADEEP		TARKERA		THERUVALLI		RENGALI	
	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	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.	19	20:45	20	03:00	26	02:45	20	04:30	19	20:45	19	20:45	19	20:45	20	04:30	7	03:30	19	20:45	4	14:15	22	14:15	22	14:45	29	17:30	19	16:45	19	16:45	17	17:15	19	20:45	19	20:45	22	13:45	20	05:45	19	20:45	19	20:45	25	14:00	29	16:00	22	13:45
MINM.	17	18:30	28	20:15	19	12:15	17	17:15	18	18:45	16	18:30	13	11:15	17	17:15	13	11:15	13	11:00	19	13:00	21	11:15	21	11:15	12	18:00	17	17:15	17	17:15	19	11:15	2	07:15	17	18:30	19	18:15	16	18:45	17	18:30	27	21:30	20	09:00	5	11:45	17	19:15

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



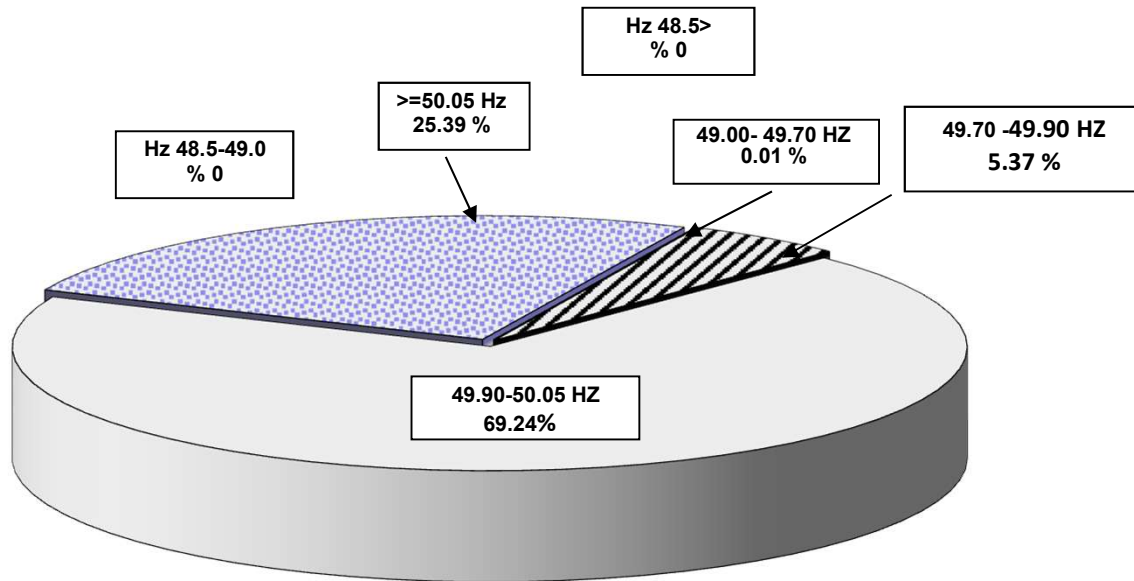
STN	CHATRAPUR		BALASORE		CHAINPAL		BARGARH (N)		BHADRAK		BHAININAGAR		BIDANASI		BOLANGIR		BUDHIPADAR		CHANDAKA		CUTTACK		DUBURI		KHURDA		JAYANAGAR		JODA		KATAPALI		LAPANGA		MANCHESWAR		PURI		MERAMUNDI		NARENDRAPUR		BERHAMPUR		PARADEEP		TARKERA		THERUVAI		CHHATRAPUR	
	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	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.	DAY	Hrs.
MAX	20	5:30	20	02:30	4	14:15	19	16:30	19	20:45	19	20:45	19	20:30	6	20:15	19	16:15	4	14:15	4	14:15	5	03:30	5	03:30	30	02:00	29	13:45	19	16:45	19	17:00	20	05:45	6	20:15	5	3:30	20	05:45	5	03:30	19	22:00	20	04:30	29	16:00	20	05:45
MIN	3	7:15	31	20:30	18	11:30	17	17:15	31	23:00	16	18:30	19	11:45	17	17:15	3	07:30	18	11:30	13	11:15	21	11:30	21	11:15	17	10:30	16	18:45	17	17:15	4	21:15	16	18:45	17	17:15	19	18:15	16	18:45	18	18:45	31	22:00	17	17:15	5	11:45	16	18:45



**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
2017- 2018	Average in Hz	49.99	49.98	49.99	49.99	49.98	49.96	49.98	49.98	49.98	49.99	49.99	49.98	49.98
	% of time (49.9 to 50.05 Hz)	73.15	69.21	70.86	68.33	70.68	77.41	76.19	72.83	72.78	76.51	78.5	78.69	73.76
	% of time (above 50.05 Hz)	18.61	22.47	24.42	27.14	23.13	12.56	13.10	13.38	15.37	14.55	14.41	11.92	17.59
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

MONTHLY FREQUENCY PROFILE FOR MARCH 2020



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	0	0	0	0	0	0	0
49.7-49.9	43	134	67	66	70	108	121	53	4	5	170	79	43	87	46
49.9-50.05	1000	1045	1070	1004	1035	976	1110	1021	974	851	935	1056	1100	1075	1040
>50.05	397	261	303	369	335	356	209	366	462	584	335	300	297	278	354
>=50.1Hz	92	45	65	87	63	73	28	98	93	170	101	46	67	61	79

Frequency/Day	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
<48.50	0	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	0
49.00-49.70	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0
49.7-49.90	121	40	101	83	17	30	113	56	13	34	113	114	48	104	203	110	40
49.9-50.05	1001	1045	1020	1045	1009	876	800	1099	804	942	952	1046	920	960	1003	1090	515
>50.05	318	355	319	310	414	534	527	285	623	464	375	280	472	376	234	239	189
>=50.10Hz	76	68	60	59	104	122	195	35	222	131	53	52	179	160	41	58	46

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

Sl.No	Name of Sub Station	Name of Feeder	Installed Capacity	SMD	Average Drawal	MAX DEMAND		
			MVA	MW	MW	MW	Date	Time
1	Angul	MCL Feeder-1&2	132 kV	22.751	19.944	50.172	18th Mar 2020	10:15
		Angul	2x40+1x20=100	25.363	18.031	26.911	17th Mar 2020	19:00
2	Angul PG	PGCIL Stn. Tertiary		0.133	0.147	0.133	1st Mar 2020	00:00
	Arati Steel	Arati Steel	132 kV	0.000	0.243	4.200	25th Mar 2020	09:15
3	Argul	Argul	2x40+1x20=100	5.488	6.251	23.504	16th Mar 2020	11:45
4	Badagada	Badagada	2x63=126	30.931	23.116	35.731	28th Mar 2020	22:45
5	Balugaon	SOLARI Traction	132kV	4.800	5.501	12.640	6th Mar 2020	02:30
		Balugaon	1x40+1x20+1x12.5=72	28.571	21.050	32.556	13th Mar 2020	18:15
6	Banki	Banki	2x20=40	9.980	7.137	11.868	28th Mar 2020	22:30
7	Bhubaneswar	Bhubaneswar	3x63=189	62.280	48.323	82.440	13th Mar 2020	15:30
8	Bidanasi	Bidanasi	2x63+1x40=166	50.759	36.510	63.899	31th Mar 2020	23:00
9	Boinda	Boinda Traction	132 kV	0.080	1.645	11.160	4th Mar 2020	17:15
		Boinda	1x20+2x12.5=45	14.462	9.689	17.566	18th Mar 2020	18:45
10	BPPL S/W	BPPL Fdr-I&II	132 kV	0.000	0.016	6.880	11th Mar 2020	12:00
11	Chainpal	FCI Feeder	132 kV	0.240	0.275	0.480	6th Mar 2020	19:30
		Talcher Rd. Trac.	132 kV	4.920	5.492	11.760	14th Mar 2020	19:15
		Chainpal	2x40+1x20=100	43.124	30.009	46.572	27th Mar 2020	19:30
12	Chandaka	Chandaka	3x63=189	86.476	64.211	100.025	13th Mar 2020	15:30
13	Chandpur	Chandpur	2x12.5=25	10.585	7.818	12.102	31th Mar 2020	22:00
14	Choudwar	Choudwar Traction	132 kV	9.160	6.825	15.000	9th Mar 2020	10:30
		Choudwar	3x40=120	51.561	36.275	53.691	19th Mar 2020	10:45
15	Cuttack	Cuttack	3x40=120	41.213	32.957	51.200	11th Mar 2020	18:30
16	Dhenkanal	Joranda Trac.	132 kV	6.513	6.473	16.325	15th Mar 2020	09:45
		Narveram CGP Fdr	33 kV	0.169	0.185	4.883	25th Mar 2020	11:45
		Dhenkanal	3x40=120	36.523	26.804	40.560	29th Mar 2020	10:00
17	Grid Steel Alloy	GSAL Feeder	132kV	0.000	1.130	15.160	31th Mar 2020	22:45
18	Hind Metalics	MGM Feeder	132kV	0.000	0.000	0.020	19th Mar 2020	18:45
		NBVL Fdr-1&2	132kV	0.000	0.020	3.813	20th Mar 2020	02:15
		SGEL Feeder	132kV	0.000	0.059	1.825	19th Mar 2020	22:15
		Meramundali Trac.	132 kV	5.825	4.795	10.225	22th Mar 2020	09:15
19	Infocity-II GIS	Infocity-II GIS (220/33)	2x40=80	12.200	11.264	23.400	10th Mar 2020	09:30
20	Jagatsinghpur	Gorakhnatn Trac.	132 kV	9.525	7.006	13.169	21th Mar 2020	03:00
		Jagatsinghpur	1x40+2x20=80	30.497	21.112	36.524	28th Mar 2020	20:45
21	Kalarangi	Kalarangi	1x20+2x12.5=45	12.407	8.508	13.267	18th Mar 2020	19:30
22	Kamakhyanagar	Kamakhyanagar	1x20+2x12.5=45	15.496	12.050	16.844	30th Mar 2020	19:30
23	Kendrapada	Kendrapada	2x40+1x12.5=92.5	22.343	17.553	32.191	22th Mar 2020	22:45
24	Khairiakata	Khairiakata	2x40=80	6.104	3.844	6.720	31th Mar 2020	22:15
25	Khuntuni GIS	Khuntuni GIS	2x40=80	3.040	2.580	6.440	13th Mar 2020	18:45
26	Khurda	Kaipadar Trac.	132 kV	12.520	7.550	18.680	14th Mar 2020	08:00
		Khurda	4x40=160	64.415	45.982	67.038	18th Mar 2020	22:00
27	Konark	Konark	2x20=40	5.828	3.909	8.144	28th Mar 2020	18:15
28	Mania	Mania	1x20+1x12.5=32.5	3.556	1.312	6.088	13th Mar 2020	17:30
29	Marshaghai	Marshaghai	2x20=40	13.968	8.928	16.696	28th Mar 2020	22:00
30	Mendhasal	Mendhasal(220/33)	2x20=40	1.604	1.255	1.840	19th Mar 2020	11:45
31	Meramundali	BSL-TATA Fdr-1&2	220 kV	48.360	15.153	98.280	25th Mar 2020	19:00
		BRG Feeder	132kV	2.000	2.450	12.600	1st Mar 2020	03:30
		JSPL Feeder-1&2	400 kV	0.000	0.112	29.313	4th Mar 2020	17:15
		RUNGTA Feeder	132kV	0.240	0.176	0.320	2nd Mar 2020	18:00
32	Narsinghpur	Narsinghpur(220/33)	1x40=40	3.640	2.651	4.428	31th Mar 2020	22:00
33	Navagarh	Navagarh (220/33)	2x40+1x20=100	41.576	30.697	50.398	28th Mar 2020	22:15
34	Nimapara	Nimapara	3x40=120	44.663	31.933	47.374	31th Mar 2020	21:30
35	Nuapatana	Nuapatana	1x40+1x20+1x12.5=72	28.249	20.519	32.323	29th Mar 2020	09:00
36	Olaver	Olaver	2x12.5=25	5.108	3.705	7.056	30th Mar 2020	21:45
37	Pandiabil PG	PGCIL Stn. Tertiary		0.051	0.057	0.051	1st Mar 2020	00:00
38	Paradeep	Essar Steel Fdr-1&2	220kV	0.000	0.102	16.238	28th Mar 2020	14:30
		IFFCO Fder-1&2	132kV	7.840	5.352	10.280	27th Mar 2020	15:15
		IOCL Feeder	220kV	0.438	0.384	0.713	11th Mar 2020	18:00
		PPL Fder-1&2	132kV	11.200	11.287	15.680	20th Mar 2020	10:15
		PPT Fder-1&2	132kV	11.840	10.050	16.040	27th Mar 2020	19:00
		Paradeep	3x20=60	21.055	14.592	23.498	28th Mar 2020	19:30
39	Pattamundai	Pattamundai	2x20+1x12.5=52.5	21.210	14.087	25.013	30th Mar 2020	21:45
40	Phulnakhara	Phulnakhara	1x40+2x20=80	28.202	18.982	29.788	28th Mar 2020	19:00
41	Puri	Puri	3x40=120	30.240	23.843	37.400	3rd Mar 2020	20:00
42	Ranasinghpur	Ranasinghpur	3x63=189	56.861	44.952	72.360	31th Mar 2020	23:00
43	Rengali PG	PGCIL Stn. Tertiary		0.039	0.044	0.039	1st Mar 2020	00:00
44	Rengali S/W	Rengali S/W (220/33)	2x20=40	12.928	9.065	15.144	27th Mar 2020	09:00
45	Salipur	OCL Feeder	132kV	1.388	5.374	9.169	17th Mar 2020	20:30
		Salipur	3x20=60	24.551	16.599	26.398	28th Mar 2020	21:30
46	Samangara	Samangara	2x20=40	0.016	0.366	3.304	31th Mar 2020	22:45
47	Shamuka	Shamuka	2x31.5=63	21.760	16.203	25.360	11th Mar 2020	12:45
48	Tirtol	Tirtol	2x40=80	5.040	3.202	6.280	28th Mar 2020	21:30
49	TS Alloys S/W	RAWMET Feeder	132kV	22.463	16.812	24.213	7th Mar 2020	23:30
50	Unit-8 GIS	Unit-8 GIS	1x40=40	3.600	3.039	13.560	8th Mar 2020	12:30
	Balugaon	Khallikote Feeder	33kV	13.064	-10.198	16.880	29th Mar 2020	07:30
	Chandikhol	Badachana Feeder	33kV	10.360	8.839	13.102	31st Mar 2020	19:15
	Rairakhol	Bamur Feeder	33kV	2.520	1.752	3.312	30th Mar 2020	18:45
	Rengali	BUDHAPAL Feeder	33kV	0.000	0.000	0.000	1st Mar 2020	00:00
	Barkote	Pallhara Feeder	33kV	0.000	0.301	2.334	31th Mar 2020	21:15
	Chandaka	S.N. Mohanty(Solar)	11kV	0.000	0.145	0.652	20th Mar 2020	11:45
	Chandpur	MGM SOLAR	11kV	0.000	0.155	0.681	11th Mar 2020	11:15
	Chandpur	VIVACITY Solar	11kV	0.000	0.142	0.639	11th Mar 2020	10:15
		CESU TOTAL ENERGY (MU)		1,245.9091	667.1511	1,720.5573		

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

Sl.No	Name of Sub Station	Name of Feeder	Installed Capacity	SMD	Average Drawal	MAX DEMAND		
			MVA	MW	MW	MW	Date	Time
1	Aryan-Viraj S/W	Arvan Ispat Feeder	132 kV	0.000	0.065	1.716	6th Mar 2020	12:15
		Arvan-Viraj	132 kV	0.034	0.239	2.600	16th Mar 2020	18:45
2	Bamra	Bamra Traction	132 kV	12.480	6.357	17.480	7th Mar 2020	12:15
3	Barapalli	Dunguripali Tr.	132kV	1.400	3.331	12.200	19th Mar 2020	13:15
		Barapalli	1x40+1x20=60	38.048	29.933	45.160	18th Mar 2020	10:45
4	Bargarh	ACC Feeder-1&2	132kV	0.560	0.711	4.800	17th Mar 2020	20:45
		Bargarh	3x40=120	88.586	62.299	90.298	19th Mar 2020	10:15
5	Bargarh (New)	Bargarh (New)	1x12.5=12.5	0.032	0.009	0.036	28th Mar 2020	21:30
6	Barkote	Barkote (220/33)	2x40=80	9.914	7.192	15.606	30th Mar 2020	19:00
7	Bhalulata	Bhalulata Traction	132 kV	4.080	3.521	15.120	20th Mar 2020	09:15
8	Bhawanipatna	Bhawanipatna	2x12.5=25	12.184	8.900	13.078	18th Mar 2020	19:30
9	Bolangir PG	415V side Tertiary		0.033	0.037	0.033	1st Mar 2020	00:00
10	Bolangir	Bolangir	3x40=120	41.950	28.129	47.573	29th Mar 2020	16:45
11	Bolangir (New)	Bolangir (New)	1x40+1x12.5=52.5	5.680	1.807	6.160	29th Mar 2020	16:45
12	Bonai	Bonai(220/33)	2x20=40	10.636	7.024	11.252	16th Mar 2020	19:45
13	Brajarainagar	Brajarainagar	1x40+3x20=100	22.439	14.538	22.439	27th Mar 2020	19:00
14	Budhipadar	AAL Feeder-1&2	220 kV	0.000	0.001	1.040	19th Mar 2020	11:15
		Basundhara Fdr	220 kV	2.125	1.591	2.906	5th Mar 2020	20:00
		BPSL Fdr-1&2	220 kV	27.969	16.337	97.219	10th Mar 2020	21:00
		MCL Fdr-1&2	132 kV	16.553	12.694	18.028	5th Mar 2020	19:00
		MSP Feeder	132 kV	0.000	0.000	0.000	1st Mar 2020	00:00
		SPS(CONCAST) Fdr	220 kV	0.000	0.000	0.000	1st Mar 2020	00:00
		Budhipadar	1x20+1x12.5=32.5	8.156	5.415	12.100	3rd Mar 2020	08:15
		Vedanta Ltd	220 kV	0.000	1.217	19.800	31st Mar 2020	18:45
15	Burla P.H.	Island & Incomer	11 kV	0.038	0.048	0.087	19th Mar 2020	17:45
16	Chandiposh	Chandiposh Trac	220 kV	11.000	3.704	13.680	6th Mar 2020	05:45
17	Chend	Adhunik Metallic Fdr.	132 kV	0.000	0.000	0.000	1st Mar 2020	00:00
		Nuagaon Trac.	132 kV	2.200	1.617	10.680	20th Mar 2020	14:15
		Sri Ganesh Metallics	132 kV	2.788	1.605	2.844	19th Mar 2020	02:45
		Chend	3x40=120	52.925	40.923	59.938	3rd Mar 2020	07:45
18	Chipilima P.H.	Chipilima P.H.	1x20+1x12.5=32.5	22.598	15.547	24.984	29th Mar 2020	18:30
19	Ghens	Ghens	1x40=40	18.960	14.293	23.120	31th Mar 2020	16:00
20	Jayapatna	Megalift Feeder-I & II	132 kV	0.040	0.121	8.280	2nd Mar 2020	10:30
21	Jharsuguda	Jharsugda Trac.	132 kV	16.094	11.976	24.031	20th Mar 2020	17:15
		Jharsuguda	2x40=80	18.600	12.942	19.560	17th Mar 2020	18:45
		Ultratech Feeder	132kV	11.632	7.954	12.644	12th Mar 2020	19:15
22	Junagarah	Junagarah	3x20=60	25.528	17.953	29.112	30th Mar 2020	21:15
23	Kalunga	Kalunga	2x40=80	42.200	30.954	47.520	21th Mar 2020	15:45
		Mahavir Ferro CGP	33 kV	0.000	0.216	6.284	29th Mar 2020	18:00
24	Kantabanji	Kantabanji Trac.	132 kV	2.560	3.226	12.280	12th Mar 2020	00:45
		Kantabanji	2x40=80	7.720	5.619	9.880	31th Mar 2020	11:00
	Katapali	HINDALCO Fdr-1&2	220 kV	24.408	49.252	71.820	17st Mar 2020	11:45
		Katapali	1x40+2x20=80	35.606	23.510	38.403	30th Mar 2020	08:45
26	Kesinga	POWMEX Fdr	132 kV	0.209	0.188	0.819	13th Mar 2020	15:45
		Kesinga Traction	132 kV	9.320	2.721	12.480	22th Mar 2020	17:15
		Kesinga	1x40+2x20=80	27.897	20.637	38.846	31th Mar 2020	19:15
27	Khariar	Khariar	2x40=80	26.720	19.284	31.800	28th Mar 2020	10:00
28	Kuchinda	Kuchinda	2x20=40	11.203	8.083	15.150	31th Mar 2020	18:45
29	Lapanga	Rengali Traction	132KV	4.960	5.163	13.920	9th Mar 2020	14:30
		Lapanga	1x20=20	8.608	5.991	9.504	17th Mar 2020	10:00
30	Nuapada	Nuapada Trac.	132 kV	0.000	0.000	0.000	1st Mar 2020	00:00
		Nuapada	2x20=40	11.200	8.903	12.700	25th Mar 2020	21:15
31	OPGC S/W Stn.	BGR Energy Ltd. Fdr	33 kV	0.027	0.031	0.027	1st Mar 2020	00:00
		BHEL Ltd. Feeder	33 kV	0.000	0.000	0.000	1st Mar 2020	00:00
32	Padampur	Padampur	1x40+2x20=80	26.392	20.291	31.636	26th Mar 2020	16:45
33	Patnagarh	Patnagarh	1x40+2x20=80	20.138	12.391	25.216	30th Mar 2020	17:15
34	Rairakhol	Rairakhol Trac.	132kV	2.880	1.965	8.400	6th Mar 2020	08:30
		Rairakhol	3x12.5=37.5	8.812	4.957	9.112	17th Mar 2020	18:30
35	Rajgangpur	OCL Feeder	132kV	5.120	5.064	26.440	4th Mar 2020	16:45
		OISL Feeder	132kV	0.000	0.000	0.000	1st Mar 2020	00:00
		Rajgangpur Trac-1&2	132 kV	2.520	2.959	6.480	15th Mar 2020	10:15
		Rajgangpur	3x40=120	63.120	41.099	65.840	17th Mar 2020	10:30
36	Rourkela PG	PG Tertiary		0.010	0.011	0.010	1st Mar 2020	00:00
37	Rourkela	Rourkela Trac Tfr	1x12.5=12.5	7.120	5.904	11.360	7th Mar 2020	20:15
		Rourkela	1x40+3x35=145	43.640	35.065	44.200	27th Mar 2020	19:00
38	Saintala	ORDNANCE Feeder	132 kV	1.000	1.217	3.240	17th Mar 2020	11:00
39	Sambalpur	Sambalpur	1x40+2x31.5=103	59.474	41.961	63.878	17th Mar 2020	18:45
		Shyam DRI Feeder	132 kV	16.981	13.975	25.556	14th Mar 2020	08:30
40	SMC S/W	SMC Power	132kV	1.288	1.122	3.756	3rd Mar 2020	05:30
41	Sonepur	Sonepur	2x40+1x20=100	39.039	29.524	47.565	29th Mar 2020	19:00
42	Sundargarah PG	PG TERTIARY	33 kV	0.133	0.148	0.133	1st Mar 2020	00:00
43	Sundargarah	Sundargarah	1x40+2x20=80	20.248	17.239	30.178	27th Mar 2020	19:30
44	Tarkera	RSP Feeder-1&2	220 kV	96.375	73.487	124.875	20th Mar 2020	08:15
		RSP Feeder-3&4	220 kV	3.600	4.755	24.800	13th Mar 2020	11:30
45	Tusura	Tusura	1x40+1x20=60	13.732	9.561	17.580	29th Mar 2020	16:30
46	VAL Lanigarh	Vedanta Al. fder-1&2	132 kV	0.000	0.076	3.643	30th Mar 2020	15:30
47	Vedanda S/W	Vedanta SEZ	400 kV	433.155	51.086	455.455	26th Mar 2020	10:00

	Barkote	Pallhara Feeder	33kV	0.000	-0.301	2.136	31th Mar 2020	21:15
	Joda	Joda-Tensa Feeder	33 kV	5.757	4.787	8.309	23th Mar 2020	19:15
	Rairakhol	Bamur Feeder	33 kV	3.192	1.752	3.312	30th Mar 2020	18:45
	Rengali	BUDHAPAL Feeder	33kV	1.145	0.712	1.469	29th Mar 2020	19:15
	Sonepur	Manamunda Feeder	33 kV	-11.303	-7.753	11.980	29th Mar 2020	19:00
	Tentulikhunti	Mukhiguda Fdr	33KV	1.612	1.194	2.088	17th Mar 2020	19:45
	ACME SOLAR	ACME SOLAR	132 kV	0.056	0.034	0.112	26th Mar 2020	18:00
	Bamra	Joy Iron Steel (Solar)	11 kV	0.000	0.103	0.518	9th Mar 2020	12:00
	Barkote	Molisati Solar	11 kV	0.000	0.125	0.640	24th Mar 2020	11:15
	Kesinga	SADIPALI Solar	33kV	0.000	5.228	21.080	31th Mar 2020	13:30
	Kesinga	Vento Power Solar -1	132 kV	0.080	0.041	0.160	24th Mar 2020	18:15
	Kesinga	Vento Power Solar -2	132 kV	0.040	0.023	0.080	1st Mar 2020	00:45
	Bonei	Mahavir Solar	33 kV	0.198	0.137	0.602	9th Mar 2020	11:30
	Padampur	Dakshin UPL solar	132kV	0.080	0.041	0.160	23th Mar 2020	18:15
	Patnagarh	ALEX Solar Pvt. Ltd.	33 kV	0.000	0.000	0.000	1st Mar 2020	00:00
	Patnagarh	JYOTI Solar	33 kV	0.000	2.391	9.972	9th Mar 2020	12:15
	Bolangir (New)	REHPL(Solar)	11kV	0.000	0.163	0.724	21th Mar 2020	12:30
	Saintala	BEL-OFBL Solar	132kV	0.024	0.014	0.036	4th Mar 2020	23:45
	Sonepur	GEDCOL Solar	33 kV	3.140	3.540	12.859	14th Mar 2020	12:15
	Sonepur	ABACUS Holdings	11 kV	0.000	0.202	0.875	30th Mar 2020	11:45
	Tusura	Vento Power Solar-I	132 kV	0.040	0.037	0.120	21th Mar 2020	03:15
	Tusura	Vento Power Solar-II	132 kV	0.080	0.026	0.080	1st Mar 2020	00:30
		WESCO TOTAL ENERGY (MU)		1,566.8194	677.1587	2,113.7027	1st Mar 2020	

ENERGY DRAWAL OF NESCO CONTROL AREA GRID SUBSTATIONS FOR THE MONTH OF MARCH'2020

Sl.No	Name of Sub Station	Name of Feeder	Installed Capacity	SMD	Average Drawal	MAX DEMAND		
			MVA	MW	MW	MW	Date	Time
1	Agarpada	Agarpada	1x40=40	1.440	0.971	1.920	29th Mar 2020	21:15
2	Anandpur	Anandpur	1x20+2x12.5=45	14.833	10.674	16.864	29th Mar 2020	19:45
3	Arya Ispat S/w	ARYA Steel Fdr	132kV	7.084	6.768	8.884	8th Mar 2020	06:00
		BRPL Feeder	132kV	16.075	13.115	10.840	24th Mar 2020	05:15
		IMTCPL Fder	132kV	0.000	0.000	0.000	1st Mar 2020	00:00
4	Balasore	BIRLA Tyre Fder	132kV	0.404	1.384	8.568	23th Mar 2020	09:45
		ISPAT Feeder	132kV	27.880	26.304	43.880	1st Mar 2020	09:15
		Balasore Traction	132kV	7.000	5.624	15.720	3rd Mar 2020	09:15
		Balasore	2x63+1x40=166	61.855	45.886	64.916	18th Mar 2020	19:00
5	Bangiriposi	Bangiriposi	2x12.5=25	3.604	2.840	4.508	31th Mar 2020	19:30
6	Barbil	Barbil	2x12.5=25	9.163	7.001	10.113	6th Mar 2020	08:15
7	Baripada PG	Baripada PG Stn.		0.000	0.000	0.000	1st Mar 2020	00:00
8	Baripada	Baripada	3x40=120	32.429	23.748	36.296	28th Mar 2020	21:15
9	Basta	Basta	2x20+1x12.5=52.5	24.328	17.554	31.526	31th Mar 2020	21:45
10	BC Mohanty S/w	Bamniral(New) Fdr	132kV	21.360	21.935	24.440	25th Mar 2020	21:15
		BC Mohantv fdr	132 kV	3.948	4.260	4.700	20th Mar 2020	03:30
		TOMKA Traction	132kV	9.440	2.828	14.400	8th Mar 2020	12:15
11	Betanati	Betanati	1x20=20	8.048	6.697	13.384	20th Mar 2020	12:15
12	Bhadrak	Dhamra Port (Trac.)	132 kV	13.550	3.863	15.150	18th Mar 2020	19:45
		Dhamra Port Fder	132 kV	0.019	4.750	11.519	12th Mar 2020	03:45
		FACOR Feeder	132kV	0.000	0.002	5.720	5th Mar 2020	06:15
		FACOR Power	132kV	0.000	0.002	0.160	2nd Mar 2020	09:00
		Bhadrak Traction	132 kV	9.800	5.842	12.480	20th Mar 2020	11:30
		Bhadrak	2x63+1x40=166	56.120	37.745	64.600	31th Mar 2020	22:00
13	Bhograi	Bhograi	2x40=80	8.640	6.625	12.720	31th Mar 2020	21:30
14	Bolani	Bolani(132/11)	2x10=20	1.864	1.980	3.944	26th Mar 2020	09:30
15	BRPL S/w	BRPL Feeder	132kV	16.075	13.115	17.850	24th Mar 2020	19:00
		Mesco Feeder	132kV	0.363	0.328	0.531	7th Mar 2020	10:00
16	Chandabali GIS	Chandabali GIS	1x40=40	5.240	4.506	8.560	31th Mar 2020	21:45
17	Chandikhol	Chandikhol	3x20=60	32.801	22.364	34.382	18th Mar 2020	19:30
18	Dhenkikote	Dhenkikote	1x20=20	3.972	2.650	4.344	31th Mar 2020	20:45
19	Duburi	Jakhapura Traction	132 kV	13.200	8.632	18.000	6th Mar 2020	15:30
		JFAL Feeder	132 kV	0.000	0.000	0.000	1st Mar 2020	00:00
		Mishrilal Feeder	132 kV	6.944	6.345	7.350	24th Mar 2020	07:45
		NINL Feeder	220 kV	0.000	1.320	8.950	28th Mar 2020	12:15
		Duburi(220/33)	2x40=80	19.159	12.612	19.686	17th Mar 2020	19:00
20	Duburi-New	Emami Feeder	220 kV	1.120	2.438	11.320	9th Mar 2020	18:15
		Jindal Stainless-1&2	220 kV	16.680	11.889	23.000	17th Mar 2020	12:15
		Maithan Feeder	220 kV	0.000	0.000	0.000	1st Mar 2020	00:00
		Rohit Ferrotech	220 kV	22.400	17.921	24.920	8th Mar 2020	10:00
		TATA Steel Fdr-1&2	220 kV	6.600	5.860	148.680	15th Mar 2020	13:15
		VISA Steel	220 kV	0.000	0.046	2.120	18th Mar 2020	20:00
		Jaganath Steel Fdr	132kV	2.991	1.807	6.181	10th Mar 2020	15:15
21	Jaipur Road	Jaipur Road	3x40=120	35.920	28.960	43.480	27th Mar 2020	19:15
		Yazdani CGP Feeder	33 kV	0.380	0.084	0.811	23th Mar 2020	08:30
22	Jaipur Town	Jaipur Town	2x40+1x20=100	34.911	25.705	42.170	30th Mar 2020	21:45
23	Jaleswar	Jaleswar Trac.	132 kV	11.000	5.148	12.840	6th Mar 2020	18:45
		Jaleswar	2x31.5+1x12.5=75.5	28.192	19.434	34.352	31th Mar 2020	22:15
24	Joda	Bansapani Trac.	132 kV	6.463	6.939	16.719	4th Mar 2020	07:15
		FAP Feeder	132kV	15.741	15.035	15.856	17th Mar 2020	21:45
		JSPL Trf-	2x50+1x20=120	43.988	51.882	75.518	1st Mar 2020	09:30
		TATA STEEL	220kV	6.600	5.860	8.560	31th Mar 2020	19:00
		TATA Steel Long	220 kV	0.000	0.341	5.320	26th Mar 2020	00:15
		Joda	1x40+3x20=100	19.364	14.060	23.379	1st Mar 2020	18:45
		Sarada Ind (220/33)	1x15=15	2.560	1.811	3.000	10th Mar 2020	03:45
25	JSW Cement S/W	JSW Cement Fdr	132kV	1.640	1.817	6.320	21th Mar 2020	02:45
26	Karanjia	Karanjia	1x20+2x12.5=45	15.538	10.827	18.247	29th Mar 2020	19:30
27	Keonjihar GIS	Keonjihar GIS	2x20=40	10.668	4.882	11.964	13th Mar 2020	20:30
28	Keonjihar PG	PGCIL Stn. Tertiary		0.000	0.000	0.000	1st Mar 2020	00:00
29	Nalda	Nalda Traction	132 kV	3.240	2.951	14.160	20th Mar 2020	13:15
30	Polasponga	ESIL Feeder	132 kV	10.156	10.360	21.694	16th Mar 2020	12:30
		MSP Feeder	132 kV	10.064	9.418	13.860	12th Mar 2020	06:30
		OSISL CGP Feeder	33 kV	0.000	0.000	0.000	1st Mar 2020	00:00
		Patnaik Steel CGP	33 kV	0.000	0.000	0.000	1st Mar 2020	00:00
		Palasponga Trac.	132 kV	7.350	5.938	19.731	15th Mar 2020	22:45
		Polasponga	1x40+2x20=80	21.660	18.195	29.184	25th Mar 2020	19:45
31	Rairangpur	Rairangpur	2x20+1x12.5=52.5	14.997	11.221	18.494	28th Mar 2020	19:45
32	Somnathpur	IMAMI Feeder	132 kV	1.384	1.136	3.494	1st Mar 2020	00:30
		Stork Feeder	132 kV	0.156	5.189	10.744	14th Mar 2020	00:00
		Somnathpur	2x12.5=25	1.716	1.857	3.668	7th Mar 2020	16:30
33	Soro	Soro	1x40+2x20=80	35.123	22.393	41.216	31th Mar 2020	22:00
34	Udala	Udala	1x40=40	9.440	7.106	11.520	28th Mar 2020	20:30
		Chandikhol	Badachana Fder	33kV	10.360	8.839	13.102	31th Mar 2020
	Joda	Joda-Tensa Fdr	33 kV	7.420	4.788	9.148	23th Mar 2020	19:15
		NESCO TOTAL ENERGY (MU)		852.4557	500.2720	1301.6755		

ENERGY DRAWAL OF SOUTHCO CONTROL AREA GRID SUBSTATIONS FOR THE MONTH OF MARCH'2020

Sl.No	Name of Sub Station	Name of Feeder	Installed Capacity	SMD	Average Drawal	MAX DEMAND		
			MVA	MW	MW	MW	Date	Time
1	Akhusingi	Akhusingi	2x12.5=25	10.876	9.066	12.490	13th Mar 2020	19:00
2	Aska	Aska	4x40=160	56.280	38.896	64.080	29th Mar 2020	07:00
3	Balimela	Balimela (220/33)	1x40+1x20=60	11.316	8.809	12.368	28th Mar 2020	19:30
4	Berhampur	Berhampur	2x40+1x20=100	42.284	32.969	46.534	31th Mar 2020	22:30
5	Bhanjanagar	Bhanjanagar	2x40+1x16=96	25.149	18.511	28.263	31th Mar 2020	19:00
6	Boudh	Boudh	2x20=40	7.584	4.298	8.828	17th Mar 2020	18:45
7	Chatrapur	IRE Feeder-1&2	132kV	7.231	4.088	8.153	13th Mar 2020	01:00
		Rambha Traction	132 kV	2.480	4.291	13.120	15th Mar 2020	13:45
		Chatrapur	3x20=60	27.235	17.673	30.177	13th Mar 2020	19:15
8	Chikiti	Chikiti	1x40=40	8.400	6.830	9.600	31th Mar 2020	22:00
9	Dabugaon	Dabugaon	2x12.5=25	9.916	7.299	13.036	21th Mar 2020	10:30
10	Digapahandi	Digapahandi	2x20+1x12.5=52.5	21.594	15.451	24.809	28th Mar 2020	06:45
11	Ganjam	GRASIM Ind. Ltd.	132kV	24.894	16.597	25.444	6th Mar 2020	09:00
		Ganjam	2x12.5=25	6.420	5.236	16.208	30th Mar 2020	08:00
12	Jaypur PG	Jaypur PG Ter.	28KV	0.078	0.087	0.078	1st Mar 2020	00:00
13	Jayanagar	Jaypur Trac.	132 kV	20.800	11.526	34.040	19th Mar 2020	18:15
		Jayanagar	2x20+1x12.5=52.5	27.506	22.111	31.987	28th Mar 2020	19:15
14	Laxmipur	Laxmipur	1x20=20	7.640	5.221	10.108	2nd Mar 2020	07:30
		Utkal Alumina Fdr-I&II	220kV	0.080	0.163	18.040	11th Mar 2020	00:45
15	Malkangiri	Malkangiri (220/33)	2x40=80	11.199	9.925	24.857	16th Mar 2020	19:00
16	Meenakshi s/w	Megalift Feeder	33kV	0.004	0.001	0.007	7th Mar 2020	10:00
17	Mohana	Mohana	2x12.5=25	6.172	3.893	6.484	27th Mar 2020	18:45
18	Muniguda	Bissam-Cuttack Tr	132 kV	7.080	3.023	14.880	11th Mar 2020	05:15
19	Narendrapur	TATA Feeder-I&II	220 KV	0.000	0.000	0.000	1st Mar 2020	00:00
		Narendrapur Trac	132 kV	7.840	4.563	13.080	19th Mar 2020	11:45
		Narendrapur	3x40+1x20=140	27.836	21.774	30.796	31th Mar 2020	22:45
20	Paralakhemendi	Paralakhemendi	3x12.5=37.5	13.096	10.021	16.224	27th Mar 2020	22:15
21	Phulbani	Phulbani	2x40+1x12.5=92.5	22.020	14.433	24.000	30th Mar 2020	19:15
22	Podagada	Podagada	1x12.5=12.5	1.572	0.893	2.112	3rd Mar 2020	07:15
23	Potangi	Potangi	1x40=40	1.240	2.331	5.064	3rd Mar 2020	07:15
24	Purushottampur	Purushottampur	1x20+2x12.5=45	13.246	9.733	17.978	17th Mar 2020	17:00
25	Rayagada	Rayagada Trac.	132 kV	1.880	3.171	14.600	21th Mar 2020	00:45
		Rayagada	2x12.5=25	7.196	5.639	12.680	17th Mar 2020	12:45
26	Sunabeda	HAL Feeder	132kV	8.040	3.930	11.612	7th Mar 2020	10:45
		Sunabeda	1x20+2x12.5=45	20.732	15.482	25.072	2nd Mar 2020	07:15
27	Tentulikhunti	Tentulikhunti	3x20=60	12.578	9.715	19.769	20th Mar 2020	08:00
28	Therubali	JK Feeder	132kV	0.000	0.570	8.540	20th Mar 2020	02:15
		Therubali	2x12.5=25	11.196	7.922	12.272	17th Mar 2020	18:30
29	Umerkote	Umerkote	2x20=40	16.672	13.256	21.400	27th Mar 2020	19:30
	Balugaon	Khallikote Feeder	33kV	15.104	10.198	16.880	29th Mar 2020	07:30
	Sonepur	Manamunda Feeder	33kV	10.508	7.753	12.900	29th Mar 2020	19:00
	Tentulikhunti	Mukhiguda Fdr	33KV	2.048	1.194	2.088	17th Mar 2020	19:45
	Tentulikhunti	Vento Energy Solar	132 kV	0.080	0.039	0.120	1st Mar 2020	03:15
		SOUTHCO TOTAL ENERGY (MU)		535.1016	289.1059	720.7780		

AUTO TRANSFORMER LOADING FOR THE MONTH OF MARCH'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	56.88	12th Mar 2020	20:45	4.32	19th Mar 2020	19:30	
		84.92	18th Mar 2020	11:30	4.32	19th Mar 2020	19:30	
ASKA NEW	2x160	39.08	29th Mar 2020	06:45	2.72	14th Mar 2020	15:00	
		38.76	29th Mar 2020	06:45	2.72	14th Mar 2020	15:00	
BALASORE 220/132 KV { Balasore, Birla Tyre(I), Ispat Alloy(I), Jaleswar, Jaleswar(T)}	3x160	63.24	20th Mar 2020	20:30	14.08	19th Mar 2020	18:45	
		63.28	20th Mar 2020	20:30	14.08	19th Mar 2020	18:45	
		66.08	20th Mar 2020	19:30	14.84	19th Mar 2020	17:45	
BARGARH 220/132 kV	1x100	14.88	31st Mar 2020	00:00	0.36	20th Mar 2020	13:00	
	1x160	8.44	31st Mar 2020	00:00	0.04	20th Mar 2020	09:45	
BHADRAK 220/132 KV {Bargarh, Ghensh}	1x100	34.04	18th Mar 2020	21:00	0.68	19th Mar 2020	19:45	
	1x160	60.80	18th Mar 2020	21:00	1.92	19th Mar 2020	19:45	
	1x160	61.08	18th Mar 2020	21:00	1.96	19th Mar 2020	19:45	
BHANJANAGAR 220/132 KV { Bhanjanagar, Aska, Phulbani, Ganjam, Chatrapur}	1x160	33.36	14th Mar 2020	16:00	7.88	5th Mar 2020	17:30	
	1x160	29.20	14th Mar 2020	16:00	4.92	20th Mar 2020	05:00	
BIDANASI 220/132 KV {Bidanasi, Khurda }	1x100	18.24	23rd Mar 2020	16:30	0.04	1st Mar 2020	08:45	
	1x100	18.12	23rd Mar 2020	16:30	0.04	1st Mar 2020	08:45	
	1x160	26.44	19th Mar 2020	19:45	0.04	2nd Mar 2020	16:15	
BOLANGIR (SADAIPALLI) 220/132 KV { Bolangir, Patnagarh, Sonepur, Saintala, Khariar, Barpali}	2x160	90.64	25th Mar 2020	19:00	7.08	21st Mar 2020	13:15	
		90.64	25th Mar 2020	19:00	7.08	21st Mar 2020	13:15	
		95.76	25th Mar 2020	19:00	7.48	21st Mar 2020	13:15	
BUDHIPADAR 220/132 KV { Jharsuguda, Jharsuguda Tr, Cemco(I), MCL, Sundergarh,Brajarajnagar, Rajgangpur}	2x160	88.00	12th Mar 2020	18:30	11.56	19th Mar 2020	16:00	
		87.24	12th Mar 2020	18:30	11.72	19th Mar 2020	16:00	
CHANDAKA 220/132 KV { Chandaka, Bhubaneswar, Nimapada, Ransinghpur, Puri,Kesura, Kaipadar Tr. }	1x100	63.84	18th Mar 2020	11:15	10.24	19th Mar 2020	19:30	
	1x160	91.88	17th Mar 2020	15:45	17.28	4th Mar 2020	14:15	
	1x100	69.36	18th Mar 2020	11:30	10.72	4th Mar 2020	14:15	
	1x160	106.64	18th Mar 2020	11:30	16.76	4th Mar 2020	14:15	
CUTTACK	1x160	67.12	12th Mar 2020	10:15	0.24	19th Mar 2020	19:45	
	1x100	38.00	13th Mar 2020	11:45	0.04	19th Mar 2020	19:45	
DUBURI 220/132 KV {Duburi, Bamnipsal(I), BRPL, MESCO, Jaipur Road, Kalarangi, Jaipur Town}	1x160	71.44	3rd Mar 2020	10:30	0.56	6th Mar 2020	21:45	
	1x100	45.36	3rd Mar 2020	10:30	0.08	6th Mar 2020	21:45	
	1x100	55.32	30th Mar 2020	10:30	0.04	7th Mar 2020	17:45	
JAYANAGAR 220/132 KV. {Damanjodi(NALCO), Traction S/Ss, Tentulikhunti, Sunabeda, Jayanagar}	1x160	55.76	24th Mar 2020	19:30	2.24	7th Mar 2020	14:45	
	1x160	55.92	24th Mar 2020	19:30	2.32	7th Mar 2020	14:45	
JODA 220/132 KV { Joda,Tensa, FAP(I), Bolani(I), Nalda Tr.,Polasponga, *Rairangpur, Bhalulata traction}	3x100	59.36	21st Mar 2020	19:15	15.64	12th Mar 2020	12:45	*** - Alternate P/S from Kuche.
		61.40	21st Mar 2020	19:15	9.24	14th Mar 2020	12:30	
KATAPALI 220/132 KV {Chiplilma,Bargarh, ACC,Sonepur & Katapali area load.}	1x100	40.00	17th Mar 2020	17:15	0.04	6th Mar 2020	20:30	Supported by Burla & Chipilima power.
	1x100	39.80	17th Mar 2020	17:15	0.04	20th Mar 2020	02:15	
	1x160	60.48	17th Mar 2020	17:15	0.04	20th Mar 2020	02:00	
LAPANGA {Kuchinda, Aryan Viraj, Shyam Metalics}	2x160	74.92	1st Mar 2020	19:15	7.40	19th Mar 2020	16:00	
		75.64	17th Mar 2020	16:45	0.04	4th Mar 2020	21:15	
MERAMUNDALI 220/132 kV {Meramundali Traction, Dhenkanal, Navchrome(I), Hind Metal, Aarti,BRG}	3x100	41.28	13th Mar 2020	19:00	1.88	18th Mar 2020	11:30	
		40.44	13th Mar 2020	19:00	0.04	19th Mar 2020	18:15	
		63.16	19th Mar 2020	18:15	1.20	18th Mar 2020	11:30	
Mendhasal { Part area load of Khurda S/S}	2x100	42.60	18th Mar 2020	05:30	7.20	4th Mar 2020	07:00	
		45.60	18th Mar 2020	05:45	1.20	18th Mar 2020	06:15	
NARENDRAPUR 220/132KV { Narendrapur, NarendrapurTr, Berhampur, Chhatrapur, Ganjam, Balugaon, Digapahandi, Mohana.}	2x160	101.08	12th Mar 2020	18:45	15.68	31st Mar 2020	00:00	
		100.92	12th Mar 2020	18:45	17.64	31st Mar 2020	00:00	
	1x100	58.12	12th Mar 2020	18:45	9.80	31st Mar 2020	00:00	
PARDEEP 220/132 KV { Paradeep, Kendrapada, Pattamundai, Chandikhol, Cuttack, Jagatsinghpur, Phulnakhara}	1x100	49.36	27th Mar 2020	21:15	3.20	19th Mar 2020	20:15	
	1x160	85.72	2nd Mar 2020	19:15	15.56	23rd Mar 2020	16:45	
	1x160	86.08	2nd Mar 2020	19:15	5.76	19th Mar 2020	20:15	
TARKERA 220/132 KV { Rourkela, Rourkela Tr.,RSP(I), Chhend , Adhunik Metal, Rajgangpur, OCL(I), Rajgangpur Tr.}	4x100	59.08	17th Mar 2020	08:45	14.32	19th Mar 2020	16:30	
		62.04	17th Mar 2020	08:45	15.96	19th Mar 2020	16:30	
		58.00	17th Mar 2020	08:45	14.12	19th Mar 2020	16:30	
		58.84	17th Mar 2020	08:45	5.72	27th Mar 2020	10:45	
THERUVALLI 220/132 KV. {Theruvalli, IMFAL(I), JK(I), Junagarh, Kesinga,Powmex(I), Rayagada, }	2x100	42.60	18th Mar 2020	21:00	7.24	29th Mar 2020	16:00	Rayagada & Paralakhemundi can be fed from Machhkund system.
		55.44	3rd Mar 2020	18:00	6.92	29th Mar 2020	16:00	
	1x160	85.08	3rd Mar 2020	18:00	10.48	29th Mar 2020	16:00	
TTPS 220/132 KV { Chainpal, FCI (I), Angul, MCL Nandira(I), Rairakhole,Boinda,Kamakhyanager, Kalarangi,Nuapatna, Choudwar }	1x160	102.21	19th Mar 2020	19:45	0.00	13th Mar 2020	03:30	
	1x160	102.21	19th Mar 2020	19:45	0.00	13th Mar 2020	03:30	
SAMANGARA { Puri, Nimapara & Konark}	2x160							

SYSTEM DISTURBANCE IN THE MONTH OF MARCH-2020 (A) TRIPPING OF LINE / EQUIPMENT WITHOUT LOAD LOSS											
Sl. No.	Sub-Station	Date	From	To	Duration	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	Therubali	02.03.20	12:49	13:00	00:11	220KV Therubali-Indrabati Ckt-II	At Therubali end: Zone-1, L1-N, 19.21KM ,86M2A, 86M2B				
2	Bhograi	03.03.20	05:12	05:28	00:16	132 kV Bhograi - Jaleswar feeder	At Bhograi end: ZONE-1,Y-PH to Gnd,Fault Loc -12.1KM				
3	Rengali SY	04.03.20	01:35	01:50	00:15	220 kV Rengali Sy - Tarkera ckt-II	At Rengali SY end: IA=54.4A,IB=73.5A,IC=3199.0A,IN=1241.81A,IG=3238.92A				
4	Cuttack	04.03.20	14:36	14:48	00:12	132 kV Cuttack - Jagatsinghpur feeder	At Cuttack end: Tripped on O/C in Y-ph, E/F with M/R				
5	Balasore	05.03.20	02:04	12:51	10:47	132 kV Balasore - Soro feeder	At Balasore end: Zone-2, Bph-N, IB=2.573KA , Dist - 38.12km At Soro end: Tripped on E/F, 2.10Km, Z-I (Insulator failure at Loc- 02)				
6	Budhipadar	05.03.20	21:21	22:32	01:11	220 kV Budhipadar - Raigarh ckt	At Budhipadar End: Trip Zone-I, FL= L3-E, FD= 56.5 Kms, d[%]=67.8% At Raigarh PG End Zone-I, FL = B phase-E, FC - 5.157 kA, FD- 22.519 Kms				
7	Bhograi	06.03.20	03:51	04:14	00:23	132 kV Bhograi - Jaleswar feeder	At Bhograi end: ZONE-1,Y-PH to Gnd,Fault Loc -12.1KM , IY-1051.6A.				
8	Jaleswar	06.03.20	06:12	06:59	00:47	132 kV Jaleswar - Baripada PG ckt	At Jaleswar end: Y-ph E/F , Dist -14.1 km , Z-1,FC -1093A At Baripada PG end: Y-ph E/F , Dist -59.83 km,Z-1,FC-1.59 kA				
9	Therubali	08.03.20	14:12	14:23	00:11	220KV Therubali-Laxmipur Ckt-I	At Therubali end: Zone-1, L1-N, 10.70 KM ,Ia=4.71kA , At Laxmipur end: Zone-1, L1-N, 34.1 KM ,Ir=2.73 kA				
10	Therubali	08.03.20	14:28	14:36	00:08	220KV Therubali-Narendrapur Ckt-II	At Therubali end: Zone-2, L3-N, 23.18KM ,Ib=812 A , At Narendrapur end Zone-1, L3-N, 30.31 KM ,Ib=2.47 kA				
11	Bhograi	10.03.20	04:05	04:22	00:17	132 kV Bhograi - Jaleswar feeder	At Bhograi end: ZONE-1,B-PH to Gnd,Fault Loc -11.3KM , IY-1057.6A.				
12	Rajgangpur	12.03.20	03:59	04:22	00:23	132KV Rajgangpur-Tarkera ckt-I	At Rajgangpur end: DP Operated,AGT, E/F FC- Ia=403A,Ib=65A,Ic=107A,Ig=107A				
			04:00	04:17	00:17	132KV Rajgangpur - Kuchinda feeder	At Rajgangpur end: DP Operated,AGT, E/F FC- Ia=1314A,Ib=109A,Ic=77A, Ig=1144A				
13	Bidanasi	12.03.20	18:56	19:12	00:16	220KV Bidanasi-Cuttack Ckt-II	At Bidanasi End: Zone-I, B-Phase, 3.3 KM At Cuttack end- Zone-I, B-Phase, 4.1 KM,1.395KA				
14	Budhipadar	13.03.20	03:20	20:22	17:02	220 kV Budhipadar - Raigarh ckt	At Budhipadar end: D/P, Dist Trip Zone-I, FL= L1-E, FD - 0.2Kms, d[%]= 0.2%, IL1= 23.5 KA				
			03:26	03:29	00:03	220 kV Bus Coupler					
			03:26	05:13	01:47	160 MVA , Auto Transformer -II	AT Raigarh PG End:				
			03:26	03:40	00:14	220 kV Budhipadar - IbTPS ckt -II	D/P operated in Y-Phase-E, FD= 31.62 KMs, IY= 7.28 KA (R-Phase Wave Trap Jumper of 220 KV Budhipadar-Raigarh PG Ckt snapped & R-Phase Insulator string damaged at Loc-06.). Bus Bar Protection in Zone-II Operated				
			03:26	03:40	00:14	220 kV Budhipadar - IbTPS ckt -IV					
			03:26	03:32	00:06	220 kV Budhipadar - Lapanga ckt -I	SIEMENS 7SS52(Main Unit BBP)				
			03:26	03:34	00:08	220 kV Budhipadar - Tarkera ckt -I					
			03:26	03:51	00:25	220 kV Budhipadar - Bhushan ckt -I					
			03:26	03:48	00:22	220 kV Budhipadar - AAL ckt -II					
			03:26	03:44	00:18	220 kV Budhipadar - VAL ckt -II					
			03:26	19:22	15:56	220 kV Budhipadar - Korba ckt -III	At Budhipadar end: D/P-I, FD = 2.49 Kms, d[%]= 1.36 %, FL = L2-N , , IL2= 17.8 KA, Zone-I				
			03:26	12:54	09:28	220 kV Budhipadar - Korba ckt -II	At Budhipadar end: Dist Trip Zone-I, FL= L1-E, FD= 1.5 Kms, d[%]= 0.8%, IL1= 19.51KA				
15	Bhograi	13.03.20	04:31	05:18	00:47	132 kV Bhograi - Baripada PG feeder	At Bhograi end: ZONE-1,R-PH to Gnd,Fault Loc -9.4KM , IR-1144.5A.				

Sl. No.	Sub-Station	Date	From	To	Duration	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)
16	Sundargarh	14.03.20	16:43	16:48	00:05	132 KV Budhipadar-Sundargarh CKT-I	At-Sundargarh, E/F , IL1=0.05 KA,IL2-0.05 KA,IL3=0.05KA				
			17:08	17:13	00:05		At-Sundargarh, E/F , IL1=0.06 KA, IL2-0.06 KA,IL3=0.06KA				
17	Budhipadar	14.03.20	22:21	23:04	00:43	132 kV Budhipadar - Basundhara ckt -II	At Budhipadar end: Dist Trip Zone-I FL= L3-E, FD= 17.1Kms, d[%]=47.8%, IL3=6.48 KA				
18	Budhipadar	14.03.20	22:48	23:59	01:11	132 kV Budhipadar - Kalunga ckt	At Budhipadar End: Zone-I, FL = L1-N, F.D = 19.389 Kms, IL1= 3.917 KA At Kalunga End: Zone-3,FL = L1-N, F.D = 168.5 KmsIL1 = 931.8Amp				
19	Rajgangpur	14.03.20	22:49	23:59	01:10	132KV Rajgangpur -Budhipadar feeder	At Rajgangpur end: DP Operated ,Zone-I,AGT, E/F FC- Ia=3116A, Ig=1141A				
20	Budhipadar	14.03.20	22:49	23:56	01:07	132 kV Budhipadar - Rajgangpur ckt	At Budhipadar End 1) D/P(ABB REL 670), Zone-I, FL = L1-N, F.D = 22.387Kms, IL1= 2.946 KA, IG = 2.862 KA				
21	Bhograi	17.03.20	05:30	05:56	00:26	132 kV Bhograi - Baripada PG feeder	At Bhograi end: Zone-1,B-PH to Gnd,Fault Loc -09.2KM, IB-1213.7A.				
22	Bidanasi	17.03.20	12:46	12:54	00:08	132KV Bidanasi-Choudwar fdr	At Bidanasi end: Zone-1,Y-phase to GND,9.77KM,5.329KA				
23	Bhograi	18.03.20	03:30	04:01	00:31	132 kV Bhograi - Baripada PG feeder	At Bhograi end: ZONE-1,B-PH to Gnd,Fault Loc -9.2KM , IB-1221.6A.				
24	Khajuriakata	18.03.20	11:22	11:30	00:08	132 kV Khajuriakata- Nuapatna feeder	At Khajuriakata end: Tripped on O/C				
25	Therubali	18.03.20	18:47	19:06	00:19	220KV Therubali-Kolab Ckt-III	At Therubali end: Zone-2, L1-N, 101 KM ,Ia=1.56kA ,At Kolab end: Zone-2, R-ph o/c, 81.4 KM				
26	Therubali	18.03.20	18:47	19:04	00:17	220KV Therubali-Laxmipur Ckt-I	At Therubali end: R-ph 86F at Thv end.				
27	Therubali	19.03.20	12:33	12:55	00:22	220KV Therubali-Kolab Ckt - III	At Therubali end: Zone-1, B-N, 66.65 KM ,Ib=2.01kA,At Kolab end Zone-1, Y-B-ph O/C				
			12:33	12:39	00:06	220KV Therubali-Laxmipur Ckt-I	At Thrubali end: BGT, 86F				
			13:01	17:38	04:37		At Therubali end: Zone-1, A-N, 11.44 KM ,Ia=4.51kA, At Laxmipur end: Zone-1, R-ph o/c, 33.11 KM				
28	Budhipadar	19.03.20	15:20	19:26	04:06	220 kV Budhipadar- Korba ckt -II	At Budhipadar End: Zone-I, FL = L1-E, IL1=24.05 KA, FD=1.3 Kms, d[%]=0.7% At Korba End D/P, Zone-II, R-Ph E/F, FD= 178.8 Kms, IR=1.09KA				
29	Rengali SY	19.03.20	15:45	18:24	02:39	221 kV Rengali SY - Tarkera ckt-II	At Rengali SY end: Z3, Dist -127.57KM ,Loop=L1-N				
30	Cuttack	19.03.20	19:32	20:05	00:33	132 kV Cuttack - Jagatsinghpur feeder	At Cuttack end: Tripped on O/C in R-Y-ph, E/F with M/R				
31	Dhenkanal	19.03.20	19:37	19:56	00:19	132 kV ICCL-Dhenkanal Feeder	At Dhenkanal end: R phase B/U relay operated. DP relay operated with indication:L1 L2, Fault Dist=44KM				
32	Rengali SY	19.03.20	19:42	14:39	00:41	220 kV Rengali SY - Rengali PG ckt-II	At Rengali Sy end: Pilot wire protection operated				
			19:42	13:25	89:43	222 kV Rengali Sy - Tarkera ckt-II	At Rengali Sy end: Z3 , Dist -101.34KM ,Loop -L2-L3				
33	Therubali	20.03.20	15:10	17:15	02:05	220KV Therubali-Indrabati Ckt-III	At Therubali end: Zone-1, AGT, 62.55 KM ,Ia=2.2kA, At Indravati end: Zone-1,RN, 38.15 KM				
34	Bhograi	21.03.20	05:25	05:50	00:25	132 kV Bhograi - Baripada PG feeder	At Bhograi end:- ZONE-1,R-PH to Gnd,Fault Loc -9.2 KM , IR-1167.9A.				
35	Bhograi	21.03.20	05:58	06:14	00:16	132 kV Bhograi - Jaleswar feeder	At Bhograi end: ZONE-1,Y-PH to Gnd,Fault Loc -11.8KM , IY-1057.8A.				
36	Bhograi	22.03.20	04:48	05:12	00:24	132 kV Bhograi - Jaleswar feeder	At Bhograi end: ZONE-1,Y-PH to Gnd,Fault Loc -07.8KM, IY-1057.3A.				
37	Cuttack	23.03.20	17:16	17:42	00:26	132 kV Cuttack - Jagatsinghpur feeder	At Cuttack end: Tripped on O/C in B-ph, E/F with M/R				
38	Budhipadar	24.03.20	13:44	15:51	02:07	220 kV Budhipadar - IBTPS ckt -III	At Budhipadar End: D/P operated, Zone-I, FL = L3-E, IL3=16.32 KA, FD=2.7 Kms, d[%]=10.6% At IBTPS End: D/P operated in Zone-II, B-Phase E/F,				

Sl. No.	Sub-Station	Date	From	To	Duration	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)
39	Rengali SY	25.03.20	14:05	20:23	00:34	220 kV Rengali SY - Barkote ckt-I	At Rengali SY end: B-ph,IA=0.05IN,IB=0.04IN, IC=1.45IN				
40	Bhanjanagar	26.03.20	12:07	12:20	00:13	220 kV Bhanjanagar - Mendhasal feeder	At Bhanjanagar end: AGT,Z=1,D=36.86KM				
41	Therubali	26.03.20	13:19	13:29	00:10	220KV Therubali-Bhanjanagar Ckt-II	At Therubali end: Zone-2, C-N, 132.4 KM ,Ic=1.05kA, At Bhanjanagr end: Zone-2, B-N				
42	Bhanjanagar	26.03.20	17:32	13:49	20:17	220 kV Bhanjanagar - Mendhasal feeder	At Bhanjanagar end: CGT,Z-I.D=57.17KM				
43	Balasore	27.03.20	11:46	17:53	06:07	220 kV Balasore - New Duburi ckt	At Balasore end: Trip B-Ph, Z-I.L3-N, 2.24 kA ,Dist - 49.53 kM At New Duburi end: B-Ph, Z-I ,FC- 1.6KA ,Dist -87.45KM (B-ph jumper snapped at Loc - 277)				
44	Therubali	28.03.20	12:39	12:53	00:14	220KV Therubali-Narendrapur Ckt-I	At Therubali end: Zone-2, AGT, 142.98 KM ,Ia=1.028kA , At Narendrapur end: Zone-1, R-ph o/c, 23 KM				
45	Bhanjanagar	28.03.20	13:58	11:49	21:51	220 kV Bhanjanagar - Mendhasal feeder	At Bhanjanagar end: AGT,Z-I.D=93.56KM				
46	Bhanjanagar	29.03.20	15:17	15:44	00:27	220 kV Bhanjanagar -Narasinghpur feeder	At Bhanjanagar end: CGT,Z-I.D=54.84KM				
47	Therubali	29.03.20	15:25	15:35	00:10	220KV Therubali-Indrabati Ckt-II	At Therubali end: Zone-1, LIN, 2.63 KM ,Ia=8.09kA,At Narendrapur end: Zone-1, R-ph N, 68 KM				
48	Bhanjanagar	30.03.20	10:53	11:10	00:17	220 kV Bhanjanagar- Mendhasala fdr	At Bhanjanagar end: CGT,Z-I.D=65.26 KM				
49	Therubali	31.03.20	12:47	13:01	00:14	220KV Therubali-Bhanjanagar Ckt-I	At Therubali end: Zone-1, R-N, 89.39 KM ,Ir=1.54kA, At Bhanjanagar end: Zone-1, Rph E/F, 73.41 km, Ir=1.01 kA				

SYSTEM DISTURBANCE IN THE MONTH OF MARCH- 2020
(B) TRIPPING OF LINE / EQUIPMENT WITH LOAD LOSS

Sl. No.	Sub-Station	Date	From	To	Duration	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	Balimela	02.03.20	13:23	13:29	00:06	220 KV Balimela -Balimela(OHPC) fdr	At OHPC end: Tripped	Balimela, Malkangiri	00:06		0.001872
2	Khariar	03.03.20	15:25	15:26	00:01	132 kV Saintala-Khariar feeder	At Saintala end: Tripped on O/C	Khariar,Nuapada, Kantabanji, Kantabanji Tr	00:25		0.015421
			15:32	15:34	00:02						
			15:44	15:51	00:07						
			16:13	16:26	00:13						
			17:31	17:33	00:02						
3	Jagatsinghpur	04.03.20	15:34	16:08	00:34	132 kV Jagatsinghpur - Tirtol feeder	At Paradeep end: Tripped	Tirtol	00:08	At 15:36 Hrs P/S availed from Cuttack end	0.000427
4	Therubali	04.03.20	16:01	16:13	00:12	132 KV Therubali - Kesinga Feeder	At Therubali end: Zone-2, B-N, 27.99KM ,Ib=3.6 kA	Kesinga,Muniguda, Val(L),Kesinga Tr Bhawanipatna, Junagarh, Powmex,	00:12		0.010694
5	Sonepur	04.03.20	16:48	16:52	00:04	132 kV Balangir- Sonepur Feeder	At Bolangir end: Tripped	Sonepur, Boudh	00:04		0.002254
6	Bhanjanagar	05.03.20	16:54	18:01	01:07	132 kV Bhanjanagar - Phulbani feeder	At Bhanjanagar end: BCN,Z-1,D=54.2KM	Phulbani	01:07		0.016114
7	Ransinghpur	07.03.20	06:12	06:22	00:10	132 kV Chandaka - Ransighpur feeder	At Chandaka end: Tripped	Ransinghpur, Kesura	00:10		0.011343
8	Samangara	07.03.20	06:15	06:27	00:12	132 kV Nimapara - Samangara feeder	At Nimapara end: Tripped	Samangara	00:12		0.000072
9	Polasponga	08.03.20	15:02	15:04	00:02	132KV Polasponga -RTSS(KJR) Feeder	At Polasponga end: O/C (R PH), Ia=220.1A, Ib=176.3A, Ic=55.53A, In measured= 4.7A, In derived= 5.1A	Polasponga Tr	00:02		0.000198
10	Bhawanipatna	08.03.20	16:49	17:06	00:17	132 kV Kesinga - Bhawanipatna feeder	At Kesinga end: Tripped	Bhawanipatna Junagarh	00:20		0.008950
			17:44	17:47	00:03						
11	Bidanasi	09.03.20	11:45	12:05	00:20	132KV Bidanasi-Choudwar fdr	At choudwar end-Tripped due to Yph L/A burst of CDR-TS Alloys	TS Alloys	05:18		0.089093
			11:45	17:03	05:18	132KV TS Alloys-Choudwar fdr					
12	Khariar	11.03.20	07:40	07:47	00:07	132 kV Saintala-Khariar feeder	At Saintala end: Tripped on O/C	Khariar, Nuapada,Kantabanji, Kantabanji Tr	00:07		0.004318
13	Khariar	12.03.20	08:00	08:06	00:06	132 kV Saintala-Khariar feeder	At Saintala end: Tripped on O/C	Khariar, Nuapada,Kantabanji, Kantabanji Tr	00:24		0.014804
			09:10	09:17	00:07						
			12:15	12:26	00:11						
14	Polasponga	12.03.20	12:42	12:55	00:13	132 k V Joda - Polasponga Feeder	At Polasponga end: E/F ZONE1 LOC 32.85KM, Ia=202.1A, Ib=203A, Ic=79A, IG= 427A	Polasponga, MSP, ESIL,Polasponga Tr	00:13		0.009510
15	Bhadrak	13.03.20	12:47	13:11	00:24	132 kV Bhadrak -DPCL ckt -I	At Bhadrak end: Zone LRPh.IA=2.02KA,IB=138.1A,IC=195.2A,Dist - 32.18 km	DPCL	00:24		0.001544
16	Khariar	13.03.20	18:00	18:07	00:07	132 kV Saintala-Khariar feeder	At Saintala end: Tripped on O/C	Khariar, Nuapada,Kantabanji, Kantabanji Tr	00:07		0.004318
17	Khariar	14.03.20	07:20	07:30	00:10	132 kV Saintala-Khariar feeder	At Saintala end: Tripped on O/C	Khariar, Nuapada,Kantabanji, Kantabanji Tr	00:20		0.012337
			08:17	08:22	00:05						
			09:04	09:09	00:05						
18	Kesinga	15.03.20	17:07	17:10	00:03	132 kV Bolangir - Kesinga feeder	At Bolangir end: Tripped on E/F	Acme,Saintala,Khariar, Nuapara,Tusura, Kantabanji, Kantabanji Tr	00:08		0.006373
			17:07	17:12	00:05	132 kV Saintala-Khariar feeder	At Saintala end: Tripped on O/C				

Sl. No.	Sub-Station	Date	From	To	Duration	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)
19	Balimela	15.03.20	18:41	18:52	00:11	220 KV Balimela -Balimela(OHPC) fdr	At OHPC end: Tripped	Balimela, Malkangiri	00:11		0.003432
20	Khajuriakata	16.03.20	16:36	16:52	00:16	132 kV Meramundali - Khajuriakata feeder	At Khajuriakata end: B-G Fault, Zone-III, Dist- 39.02Kms, If=2.6KA	Khajuriakata	00:16		0.001024
			16:36	18:53	02:17	132 kV Khajuriakata- Nuapatna feeder	At Khajuriakata end: Zone-III, B-G fault, Dist- 39.02, If= 2.6KA				
21	Khariar	16.03.20	19:12	19:25	00:13	132 kV Saintala-Khariar feeder	At Saintala end: Tripped on O/C	Khariar, Nuapada, Kantabanji, Kantabanji Tr	00:13		0.008019
22	Polasponga	17.03.20	11:45	11:47	00:02	132KV Polasponga -RTSS(KJR) Feeder	At Polasponga end: O/C (R PH), Ia=220.1A, Ib=177.7A, Ic=62.14A, In measured= 6.956A, In derived= 6.574A	Polasponga Tr	00:02		0.000198
23	Sonepur	17.03.20	17:36	17:46	00:10	132 kV Balangir- Sonepur Feeder	At Bolangir end: Tripped	Sonepur, Boudh	00:10		0.005635
24	Dhenkanal	18.03.20	11:20	12:58	01:38	132 kV ICCL-Dhenkanal Feeder	At Dhenkanal end: E/F B/U Relay operated	Dhenkanal	00:10		0.004467
25	Khariar	19.03.20	06:48	06:55	00:07	132 kV Saintala-Khariar feeder	At Saintala end: Tripped on O/C	Khariar, Nuapada, Kantabanji, Kantabanji Tr	00:07		0.004318
26	Chandikhole	19.03.20	12:02	12:35	00:33	132KV Kendrapara-Chandikhole ckt-I	At Kendrapara end: Tripped	Chandikhole	00:33		0.017155
27	Budhipadar	19.03.20	15:30	16:35	01:05	132 KV Budhipadar-Sundargarh CKT-I	At-Sundargarh, E/F , IL1=0.06 KA, IL2=0.07 KA, IL3=0.06KA	Jharsuguda	00:58		0.012509
			15:30	17:08	01:38	132KV Rajagangpur -Budhipadar feeder	At Rajagangpur end: Tripped on E/F				
			15:30	18:24	02:54	220 kV Budhipadar - IbTPS ckt -III	At Budhipadar End B-Phase Trip, Zone-I, FD= 1.75Kms, FL= L3-N, IL3=29.8 KA At IBTPS End: Zone-I & II operated, Bphase-E/F				
			15:30	17:22	01:52	132 kV Budhipadar - Jharsuguda ckt -I	At Budhipadar End D/P (ABB RAZOA), zone-II, Dir E/F Trip, IL2=10.67 KA At Jharsuguda End D/P operated in Zone-I, FD=2.3 Kms, FL =L2-E, IL2=8KA				
			15:33	16:18	00:45	132 kV Budhipadar - Jharsuguda ckt -II	At Budhipadar end: D/P (Micom), R-Phase Trip Zone-I, FL = A-N, IA= 10.26 KA, FD=4.421 Kms				
			15:34	17:08	01:34	132 kV Budhipadar - Rajgangpur ckt	At Budhipadar End: D/P(ABB REL 670), R,Y & B-Phase Trip Zone-I, FD= 14 Kms, FL=L2-N, IL2= 4.997 KA At Rajgangpur End: B/U E/F Trip				
28	Bhawanipatna	19.03.20	16:29	17:00	00:31	132 kV Kesinga - Bhawanipatna feeder	At Kesinga end: Tripped	Bhawanipatna Junagarh	00:31		0.013873
29	Polasponga	19.03.20	17:06	17:34	00:28	132 k V Joda - Polasponga Feeder	At Polasponga end: E/F ZONE1 , Ia=264A, Ib=240A, Ic=152A, IG= 451A	Polasponga, MSP, ESIL, Polasponga Tr	00:28		0.020482
30	Kesinga	19.03.20	17:28	17:31	00:03	132 kV Kesinga - Bhawanipatna feeder	At Kesinga end: Tripped	Khariar, Nuapada, Kantabanji, Kantabanji Tr Bhawanipatna Junagarh	00:03		0.003193
			17:28	17:31	00:03	132 kV Saintala-Khariar feeder	At Saintala end: Tripped on O/C				
31	Bhawanipatna	19.03.20	17:43	17:47	00:04	132 kV Kesinga - Bhawanipatna feeder	At Kesinga end: Tripped	Bhawanipatna Junagarh	00:04		0.001790
32	Khariar	19.03.20	17:45	17:48	00:03	132 kV Saintala-Khariar feeder	At Saintala end: Tripped on O/C	Khariar, Nuapada, Kantabanji, Kantabanji Tr	00:03		0.001850

Sl. No.	Sub-Station	Date	From	To	Duration	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)	
33	Khajuriakata	19.03.20	18:05	20.03.20 07:25	13:20	132 kV Meramundali - Khajuriakata feeder	At Khajuriakata end: R-G Fault, Zone-I, Dist- 27.1 kM, FC = 1.6KA	Khajuriakata Nuapatna	0:14 0:13		0.007292	
			18:33	19:01	00:28	132 kV Nuapatna - Aarti feeder	At Nuapatna end: Tripped on O/C, E/F, R-ph					
			18:39	18:52	00:13	132 kV Nuapatna - Khajuriakata feeder	At Nuapatna end: Tripped on E/F, B-ph					
			18:39	19:01	00:22	132 kV Nuapatna - Banki feeder	At Banki end: Tripped on Zone-3					
			18:44	18:52	00:08	132KV Dhenkanal-Nuapatna-Khajuriakata "T" feeder	At Dhenkanal end: E/F B/U relay operated. DP Relay:L2_N fault					
34	Choudwar	19.03.20	19:00	19:54	00:54	132KV Bidanasi-Choudwar fdr	At Bidadanasi end: Tripped At Choudwr- Tripped on O/C	Choudwar Ts Alloy	00:14		0.012385	
			19:38	19:52	00:14	132KV TS Alloys-Choudwar fdr	At both end-Tripped on E/F, O/C					
35	Salipur	19.03.20	19:28	20:33	01:05	132 KV OCL-Salipur feeder	At Salipur end: Tripped	Salipur	00:14	At 19:42 Hrs, P/S availed from Kendrapara end.	0.003871	
36	Bhadrak	19.03.20	19:38	20:01	00:23	132 kV Bhadrak -DPCL ckt -II	At Bhadrak end: E/F,86A,IA=1.62KA,IB=243.7A,IC=322.7A,	DPCL	00:23		0.001480	
37	Pattamundai	19.03.20	19:50	20:26	00:36	132 KV Kendrapara-Pattamundai feeder	At Kendrapara end: DP relay operated (R-phase), Dist - 12.67 kM	Pattamundai, Olaver, Chandbali	00:36		0.013368	
38	Tirtol	19.03.20	19:51	17:46	22:05	132 kV Paradeep - Tirtol feeder	At Paradeep end: Tripped (Earthwire snapped at Loc. No:190)	Jagatsinghpur, Tirtol, Gorakhnath Tr	00:14	At 20:05 Hrs P/S availed from Cuttack end	0.007306	
39	Khariar	19.03.20	21:04	21:09	00:05	132 kV Saintala-Khariar feeder	At Saintala end: Tripped on O/C	Khariar, Nuapada,Kantabanji, Kantabanji Tr	00:39		0.041150	
			21:23	21:39	00:16							
			22:08	22:18	00:10							
			23:48	23:56	00:08							
			21:05	21:09	00:04	132 kV Kesinga - Bhawanipatna feeder	At Kesinga end: Tripped	Bhawanipatna, Junagarh	00:38			
			21:21	21:38	00:17							
			22:08	22:17	00:09							
		23:48	23:56	00:08								
40	Sonepur	20.03.20	04:38	04:41	00:03	132 kV Balangir- Sonepur Feeder	At Bolangir end: Tripped	Sonepur, Boudh	00:03		0.001690	
41	Ganjam	20.03.20	06:07	06:29	00:22	132 kV Chatrapur-Ganjam Feeder	At Chatrapur end: Tripped	Ganjam, JCL	00:22		0.008001	
42	Bhawanipatna	20.03.20	12:40	12:47	00:07	132 kV Kesinga - Bhawanipatna feeder	At Kesinga end: Tripped	Bhawanipatna, Junagarh	00:07		0.003150	
43	Brajarajnagar	21.03.20	13:09	14:08	00:59	132 KV Budhipadar - Brajarajnagar feeder	At Budhipadar end: Tripped	Brajarajnagar	00:59		0.018510	
44	Balasore	22.03.20	00:29	00:49	00:20	132 kV Balasore - Basta feeder	At Balasore end: Zone-1, IA=4.877KA, Dist:- 11.95KM Basta end: Zone-1, Dist - 15.06 kM	At Basta	00:20		0.005850	
45	Khariar	22.03.20	07:38	07:51	00:13	132 kV Saintala-Khariar feeder	At Saintala end: Tripped on O/C	Khariar, Nuapada,Kantabanji, Kantabanji Tr	00:13		0.008017	
46	Brajarajnagar	22.03.20	12:05	14:23	02:18	132 KV Budhipadar - Brajarajnagar feeder	At Budhipadar end: Tripped	Brajarajnagar	02:18		0.042573	
47	Balasore	22.03.20	16:03	16:30	00:27	132 kV Balasore - Balasore Alloys feeder	At Balasore end: E/F, IA= 1.398KA, IB= 1.999KA,IC= 95.67A	Balasore Alloys	00:27		0.011835	
48	Salipur	23.03.20	16:31	16:45	00:14	132 KV OCL-Salipur feeder	At Salipur end: Tripped	Salipur	00:14		0.003871	
49	Jayanagar	23.03.20	21:12	21:17	00:05	132 kV Jaynagar - Tentulikhunti feeder	At Jaynagar end: Tripped	Tentulikhunti, Umarkote, Daubugaon, Pattangi	00:05		0.002715	

Sl. No.	Sub-Station	Date	From	To	Duration	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)
50	Khariar	24.03.20	19:00	19:06	00:06	132 kV Saintala-Khariar feeder	At Saintala end: Tripped on O/C	Khariar, Nuapada, Kantabanji, Kantabanji Tr	00:06		0.003258
51	Khariar	25.03.20	16:17	16:31	00:14	132 kV Saintala-Khariar feeder	At Saintala end: Tripped on O/C	Khariar, Nuapada, Kantabanji, Kantabanji Tr	00:14		0.007602
52	Bhanjanagar	26.03.20	12:00	12:22	00:22	132 kV Bhanjanagar - Phulbani feeder	At Bhanjanagar end: CN.Z-1.D=52.34KM	Phulbani	00:22		0.005291
53	Bhadrak	27.03.20	12:25	12:48	00:23	132 kV Bhadrak -DPCL ckt -I	At Bhadrak end: zone-I,R-Ph.fault distance=30.94km,IA=2.114KA,IB=135.1A,IC=229.1A	DPCL	00:23		0.001480
54	Sonepur	28.03.20	10:48	10:51	00:03	132 kV Balangir- Sonepur Feeder	At Bolangir end: Tripped	Sonepur, Boudh	00:03		0.001685
55	Jayanagar	29.03.20	11:15	17:04	05:49	132 kV Jaynagar - Tentulikhunti feeder	At Jaynagar end: Tripped on B-ph E/F, Zone -I	Tentulikhunti Umarkote, Daubugaon, Pattangi	05:49		0.189507
56	Bhawanipatna	29.03.20	15:57	16:17	00:20	132 kV Kesinga - Bhawanipatna feeder	At Kesinga end: Tripped	Bhawanipatna Junagarh	00:20		0.008933
57	Nimapara	29.03.20	18:55	19:01	00:06	132 kV Chandaka - Nimapara feeder	At Chandaka end: Distance=17.95Km, Zone1, B-Ph	Nimapara	00:06		0.003193
58	Therubali	31.03.20	11:29	11:34	00:05	132 KV Therubali - Raygada Feeder	At Therubali end: BGT, Ib=3.56 kA	Raygada Raygada Tr.	00:05		0.000733
59	Ganjam	31.03.20	15:19	15:31	00:12	132 kV Chatrapur-Ganjam Feeder	At Chatrapur end: Tripped	Ganjam, JCL	00:12		0.004364

STATEMENT OF UFR OPERATION IN GRIDCO SYSTEM DURING THE MONTH OF MARCH-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 MARCH - 2020		
Sl. No	Date	Details of event
1	06.03.2020	At 17:08 Hrs, 220/33 kV Grid S/S , Narsinghpur charged by LILO arrangement in 220 kV Meramundali Bhanjanagar ckt -I (previously charged by 'T' arrangement in 220 kV Meramundali Bhanjanagar ckt -I)
2	13.03.2020	At 16:14 Hrs - 63 MVA,132/33 kV Power transformer -III at Grid S/S, Balasore charged (capacity added from 40 MVA to 63 MVA).