

SYSTEM PERFORMANCE REPORT



FEBRUARY'2020

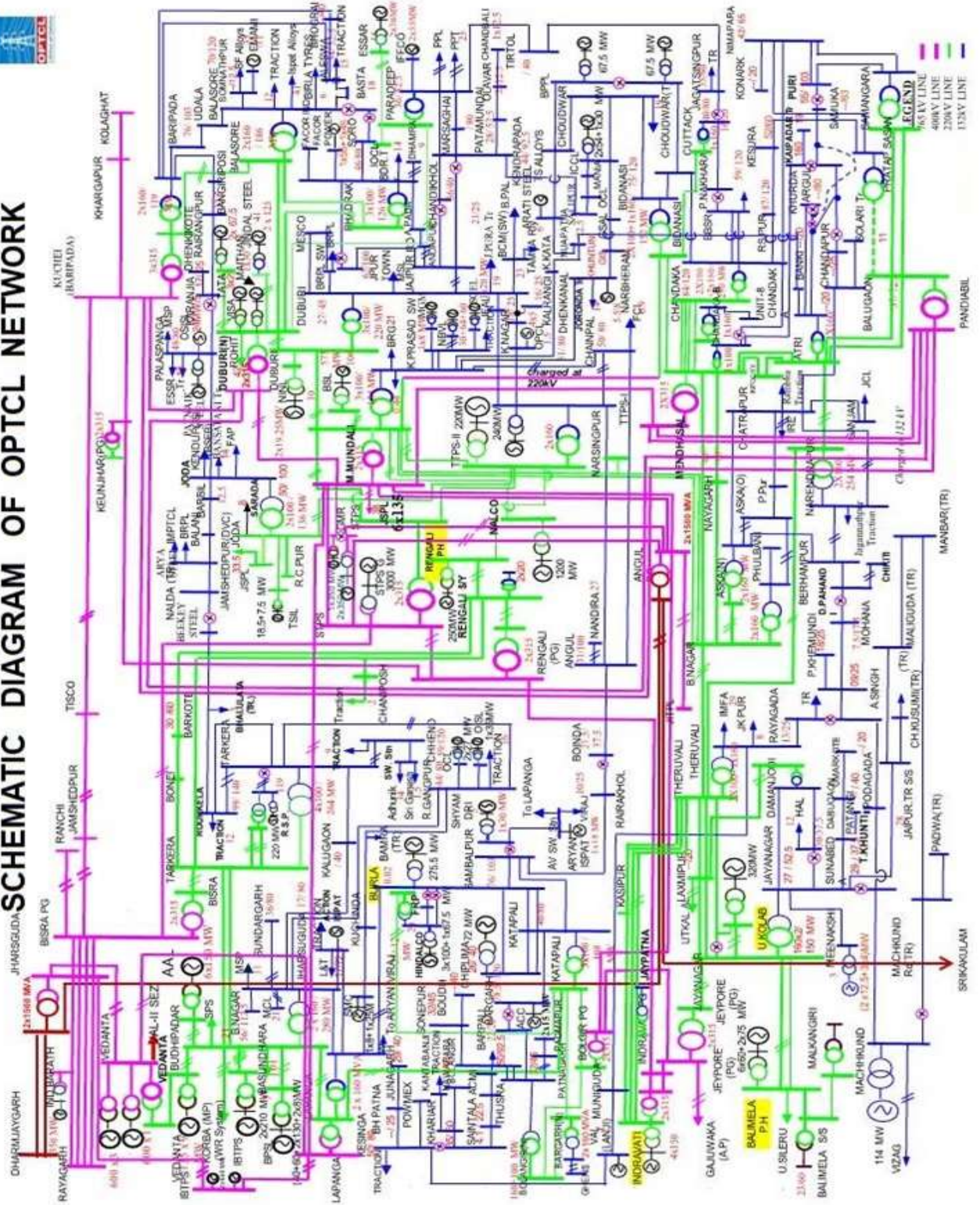
SLDC, OPTCL
BHUBANESWAR – 17

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SCHEMATIC DIAGRAM OF OPTCL NETWORK



SUMMARY REPORT FOR FEBRUARY- 2020

A. Voltage Profile

220 KV

			<u>Date & Time</u>	<u>Location</u>
Maxm.	-	243.82 kV	09.02.2020 15:45Hrs	Mendhasal
		>240 KV		Bhanjanagar, Jayanagar, Laxmipur, Mendhasal.

Minm.	-	203.80 kV	13.02.2020 17:45 Hrs	Bargarh
		< 200 KV		Nil

132 KV

Maxm.	-	145.84 kV	13.02.2020 03:30 Hrs	Narendrapur
		>145 KV		Narendrapur.
Minm.	-	104.96 kV	13.02.2020 16:15 Hrs	Bolangir
		< 120 KV		Balasore, Bolangir, Joda.

B. Frequency Profile

Date & Time

Maxm.	-	50.34 Hz	21.02.20 18:03 Hrs.
Minm.	-	49.68 Hz	04.04.20 06:14 Hrs.
Average	-	50.00 Hz	
% of time the freq. is within 49.9 Hz to 50.05 Hz (IEGC band)		-	71.28%
% of time the freq. is > 50.05 HZ		-	22.17%
% of time the freq. is ≤49.9 HZ		-	6.54%
% of time the freq. is < 48.5 HZ		-	0.00%

C. Demand Profile

Peak System Demand	4084 MW	At 11:00 Hrs on 09.02.20
Minimum System Demand	2110.21 MW	At 04:00 Hrs on 05.02.20
Average System Demand	3036 MW	

D. Major events

Sl. No	Date	Details of event
1	11.02.2020	At 20:32 Hrs, 220 kV Mendhasal- Bidanasi ckt - II charged.
2	25.02.2020	At 14:55 Hrs, 400 kV Main Breaker of 400 kV Indrabati (PH)- Indravati (PG) feeder at PGCIL end charged.
3	26.02.2020	At 19:42 Hrs, 132 kV Chandaka B - Mancheswar B feeder charged.
4	28.02.2020	At 21:50 Hrs, 2 x 40 MVA 132/33 kV Power Transformers charged at GIS, Mancheswar-B
5	29.02.2020	At 14:32 Hrs, 400 kV Mendhasal- Meramundali ckt - II charged.

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	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 0N 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	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	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.

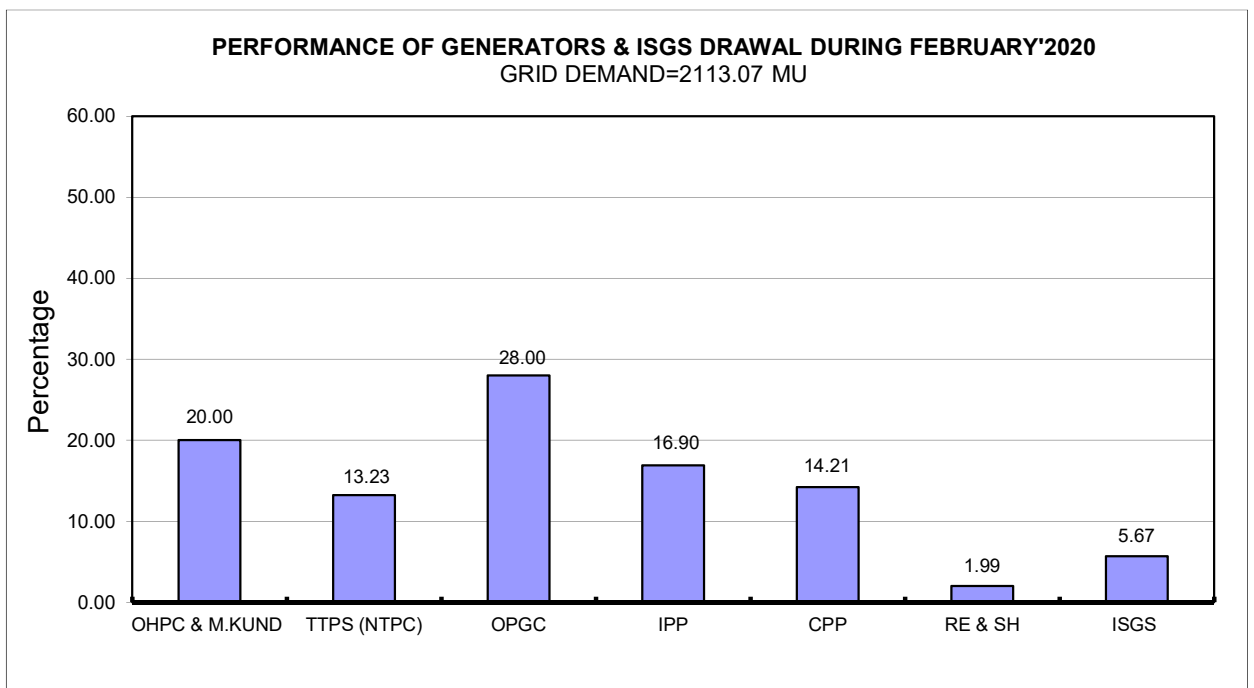
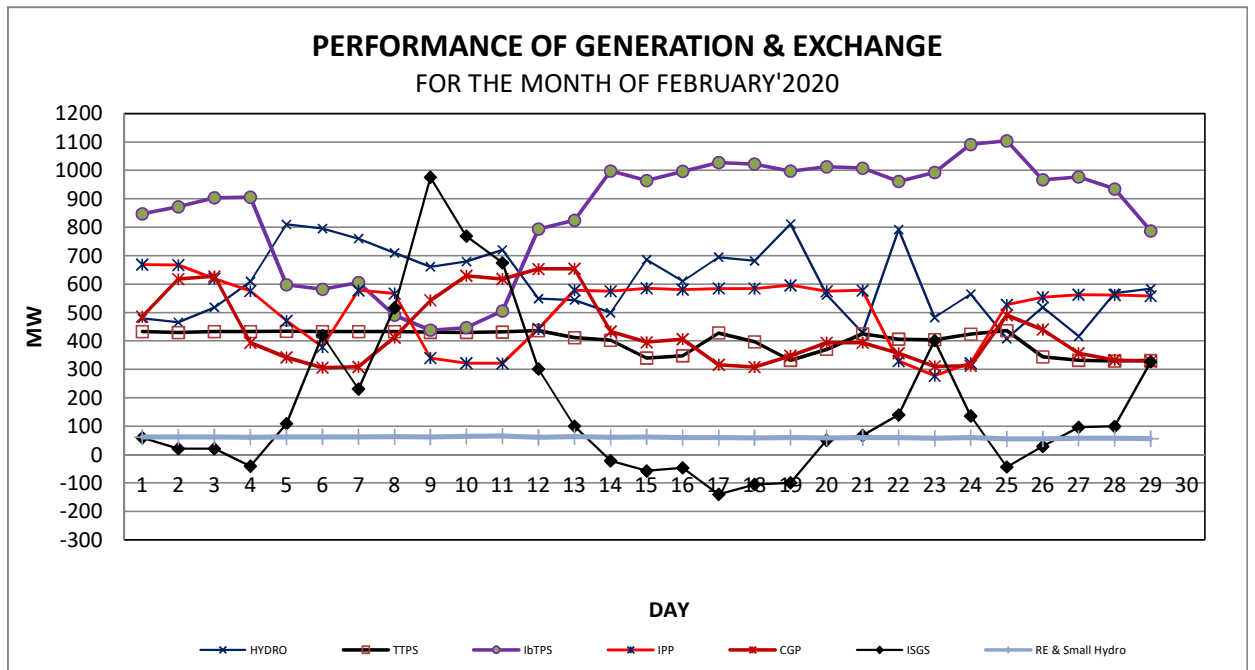
CAPACITY OF IPP, CPP, SMALL HYDRO & RENEWABLE

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		

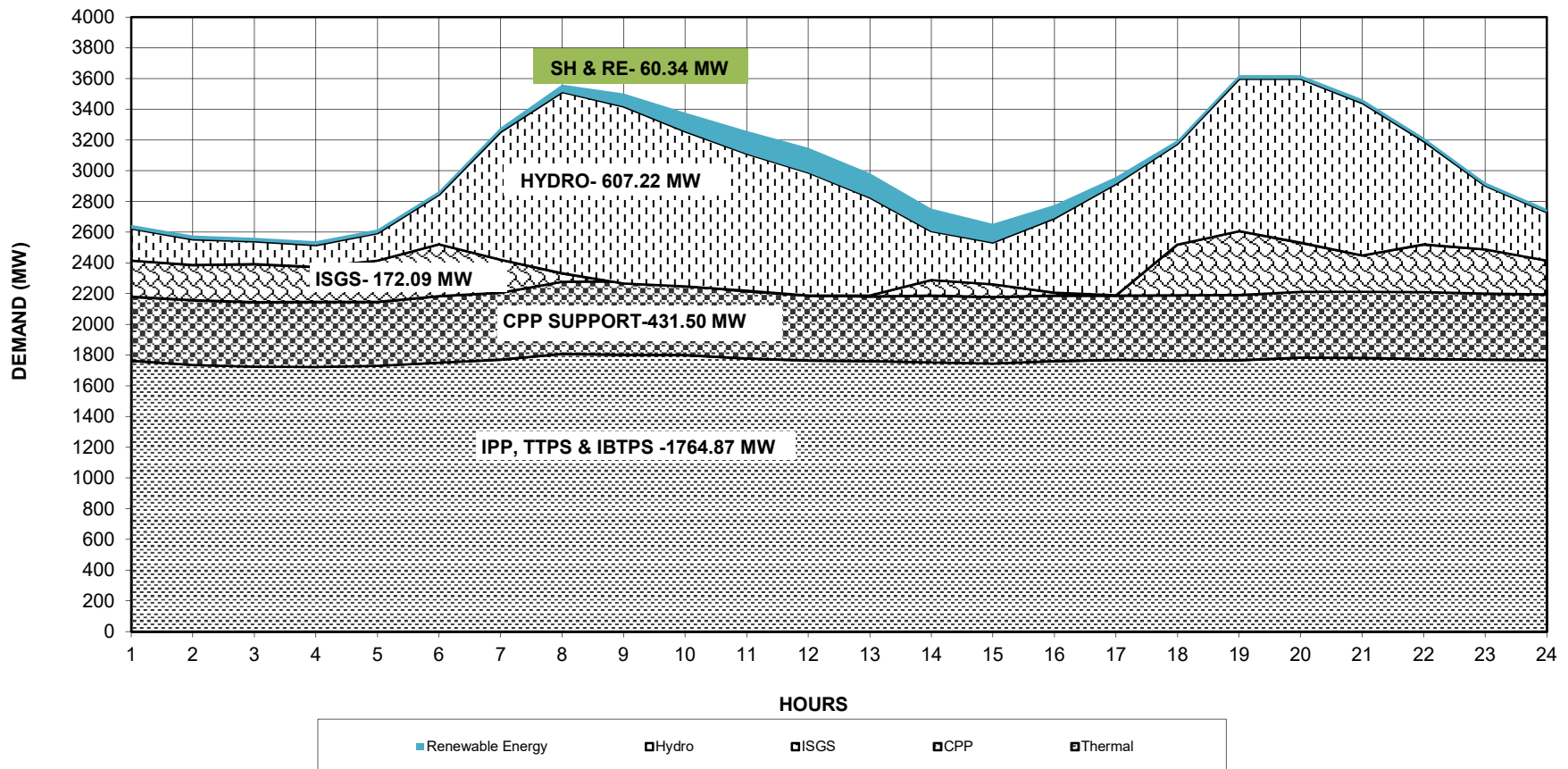
RENEWABLE PROJECTS

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 URGA PVT. LTD, PADMAPUR	40 MW	40	SOLAR		132 kV
21	VENTO POWER& ENERGY LTD, Denduguda, 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			

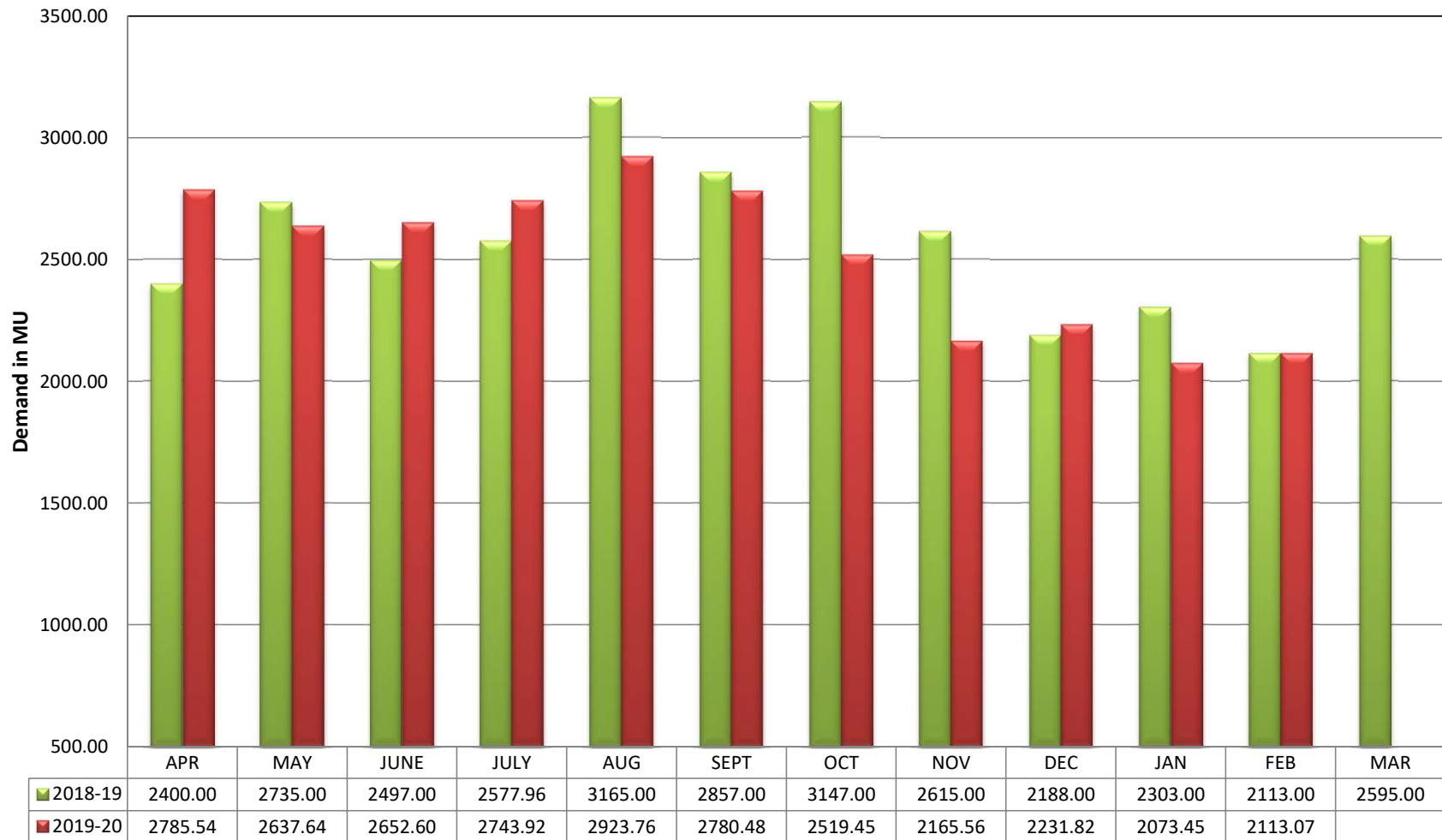


AVERAGE GRID DEMAND [HOURLY] FOR THE MONTH OF FEBRUARY'2020

Average Demand=3036.02 MW



COMPARISON SYSTEM DEMAND WITH PREVIOUS FINANCIAL YEAR



MONTHLY GENERATION & DEMAND REPORT FOR THE STATE OF ODISHA IN THE MONTH OF FEBRUARY- 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	8.928	5.498	5.691	0.000	0.000	0.000	0.000	20.117	28.904	0.135	111.00	26	10.00
2	Chiplima	0.711	5.768	5.477	-	-	-	-	-	11.956	17.178	0.023	40.39	5	22.00
4	Balimela	0.000	0.000	20.547	8.971	19.979	9.331	7.324	7.439	73.591	105.734	1.410	358.67	5	13.00
5	Rengali	7.008	8.8228	6.7042	11.2968	9.890	-	-	-	43.722	62.819	0.072	262.10	18	8.00
6	Upper Kolab	29.705	21.958	0.087	24.030	-	-	-	-	75.780	108.879	0.127	256.72	29	20.00
7	Upper Indravati	51.923	35.497	47.005	41.192	-	-	-	-	175.616	252.321	0.139	601.14	15	8.00
8	Total Hydro (OHPC)	-	-	-	-	-	-	-	-	400.782	575.836	-	-	-	-
9	Machhakund (Orissa drawal)	-	-	-	-	-	-	-	-	24.601	35.346	-	49.71	19	8.00
10	Total Hydro	-	-	-	-	-	-	-	-	425.383	611.182	-	1526.59	15	8.00
11	TTPS-I	42.255	41.715	40.818	42.379	-	-	-	-	167.167	240.182	-	230.54	13	8.00
12	TTPS-II	76.887	56.488	-	-	-	-	-	-	133.375	191.631	-	220.60	24	5.00
13	Total TTPS	-	-	-	-	-	-	-	-	300.542	431.813	32.265	443.54	25	10.00
14	IBTPS-I	101.39	87.053	-	-	-	-	-	-	188.447	270.757	22.615	1156.84	25.00	13.00
15	IBTPS-II	-	-	259.750	210.836	-	-	-	-	470.586	676.129	32.559	-	-	-
16	Total IBTPS	-	-	-	-	-	-	-	-	659.033	946.886	-	-	-	-
17	IPPs & CGPs Support	-	-	-	-	-	-	-	-	659.295	947.263	-	-	-	-
18	Total Thermal & IPPs & CGP	-	-	-	-	-	-	-	-	1618.870	2325.963	-	2706.42	3	9.00
19	Injection by Renewable projects	32.08648	-	-	-	-	-	-	-	32.086	46.101	-	-	-	-
20	Total self generation	-	-	-	-	-	-	-	-	2076.340	2983.247	89.345	3979.94	3	9.00

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

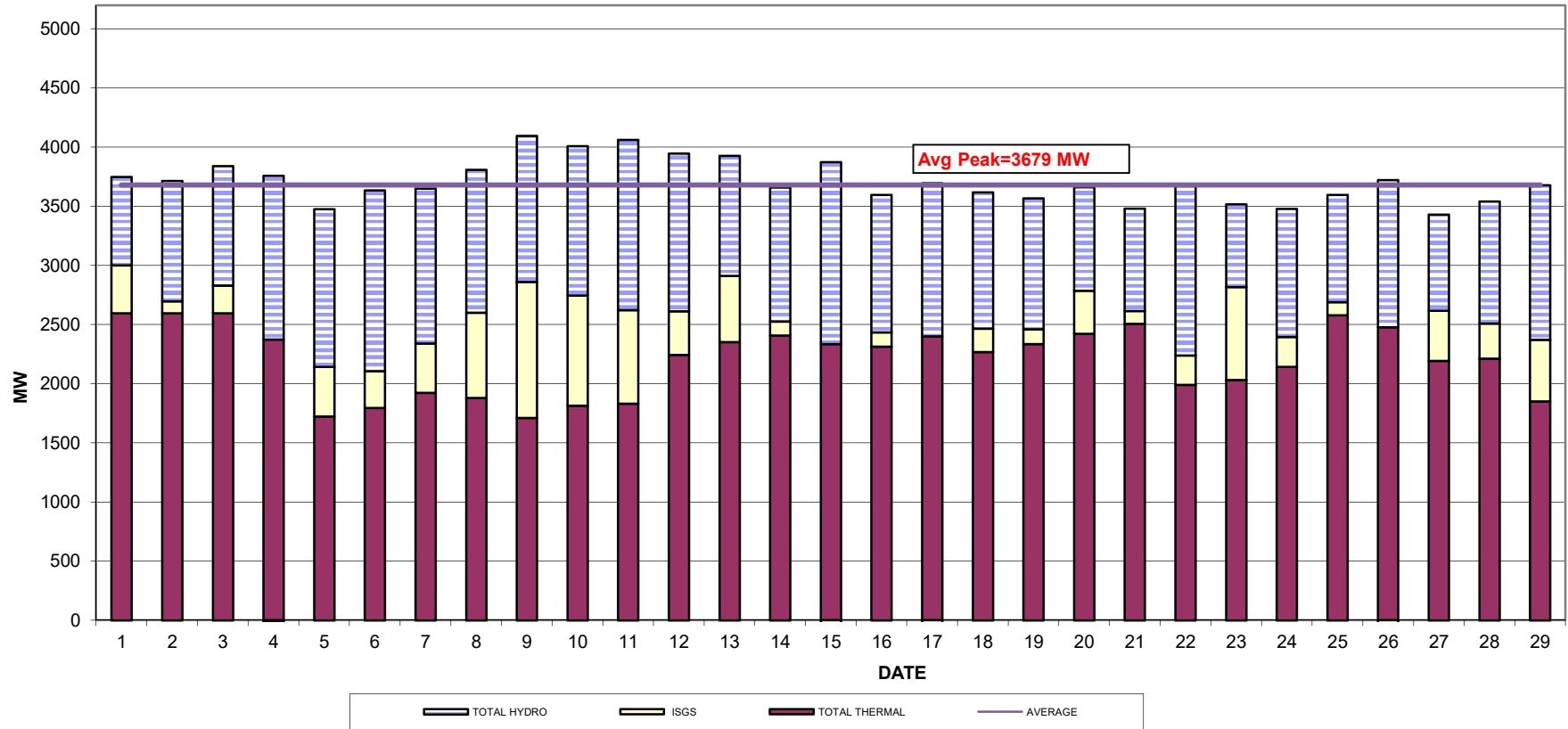
(B) IPPs / CGPs injection :-

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	5.851	8.407	26.69	12	4.00	132KV JODA-KENDUPOSI	-13.17	-18.92				-25.57	9	20.00
2	ACC	0.000	0.000				132KV KALABADIA-BANGIRIPOSI	28.07	40.33	54.09	12	8.00			
3	Action Ispat	0.000	0.000				132KV KALABADIA-BARIPADA	15.91	22.85	81.44	3	12.00			
4	Aryan Ispat,	0.512	0.736				132 KV BHOGRAI-KUCHEI	9.11	13.09	36.80	3	12.00			
5	BPPL	62.901	19.010	122.36	16	20.00	132 KV JALESWAR-KUCHEI	13.74	19.74	61.68	18	21.00	-1.32	3	12.00
6	BPSL, Jharsuguda	13.231	19.010	100.97	13	11.00	220KV JODA-JAMSHEDPUR	-35.47	-50.96				-113.55	17	11.00
7	BSL, Meramundali	17.760	25.517	74.41	7	15.00	220KV JODA-RAMCHANDRAPUR	48.55	69.75	105.50	27	7.00	-0.10	16	12.00
8	GMR Kamalanga Energy Ltd.(IPP)	128.296	184.333				220KV RENGALI SY- RENGALI P.G-I	1.62	2.33	67.05	29	18.00	-43.04	5	8.00
9	HINDALCO, Hirakud	46.057	66.174				220KV RENGALI SY- RENGALI P.G-II	1.54	2.21	80.03	29	18.00	-56.85	5	8.00
10	IFFCO, Paradeep	0.0001	0.000				220KV JAYANAGAR JEYPORE PG-I	-47.84	-68.74	3.51	17	5.00	-181.62	22	12.00
11	IMFA, Choudwar	27.515	39.533	55.58	20	14.00	220KV JAYANAGAR JEYPORE PG-II	-50.80	-72.99	2.56	17	5.00	-191.73	22	12.00
12	JINDAL, New Duburi	5.511	7.918	33.37	11	19.00	220KV RENGALI P.H-KANIHA	-14.56	-20.92	26.61	2	16.00	-100.80	13	20.00
13	JSPL, Angul	33.146	47.623	103.36	28	15.00	220KV TTPS-KANIHA	11.95	17.17	76.79	10	19.00	-25.18	22	4.00
14	Mahavir Ferro Alloys	0.106	0.153				220KV MERAMUNDALI-KANIHA-I	26.33	37.83	100.30	10	19.00	-0.07	8	4.00
15	Maithan Ispat Ltd.	0.000	0.000				220KV MERAMUNDALI-KANIHA-II	23.81	34.21	79.79	29	20.00	-0.41	8	4.00
16	Meenakshi Power Ltd. (SH)	10.155	14.591				220KV TARAKARA-BISRA-I & II	115.59	166.08	267.08	29	8.00			
17	MSP, Jharsuguda	0.000	0.000				220 KV KALABADIA-BALASORE-I&II	100.34	144.16	210.09	17	20.00	-2.32	3	15.00
18	NALCO, Angul	9.49	13.642	49.80	6	9.00	220KV KATAPALI- BOLANGIR(PG)	-30.69	-44.09				-132.65	27	10.00
19	Narberham	0.028	0.041				220KV SADEPALI- BOLANGIR(PG)	69.85	100.36	224.09	13	19.00	-58.78	26	14.00
20	NBVL, Kharag Prasad	7.305	10.495	45.60	10	9.00	220KV BUDHIPADAR-KORBA-I	-5.21	-7.49	0.00	30	1.00	-91.22	1	9.00
21	NINL, Duburi	0.408	0.586				220KV BUDHIPADAR-KORBA-II	6.70	9.62	83.61	29	2.00	-91.22	1	9.00
22	OCL	0.117	0.167				220KV BUDHIPADAR-KORBA-III	32.87	47.22	117.23	24	3.00			
23	OPCL, Samal (SH)	6.107	8.775				220KV ATRI- PANDIVIL	117.33	168.57	265.19	25	7.00	-20.43	4	10.00
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 KEONJHAR 220KV KEONJHAR	1.11	1.60	6.03	13	8.00	-0.15	13	8.00
26	Shree Ganesh	0.494	0.710				220KV KEONJHAR 220KV KEONJHAR	0.71	1.02	4.05	11	21.00	-0.64	11	21.00
27	Shyam Metallics	0.002	0.003				400KV INDRAVATI P.H-P.G	-81.62	-117.28	40.79	17	5.00	-317.98	18	17.00
28	SMC Power	0.076	0.109				400KV MERAMUNDALI-KANIHA	85.32	122.58	525.75	29	18.00	-261.77	8	4.00
29	TSIL, Joda	9.496	13.643				400KV MERAMUNDALI-ANGUL-I&II	-28.75	-41.31	520.28	5	19.00	-338.87	12	3.00
31	Vedanta Ltd. (IPP-Unit-2)	213.026	306.072				400KV MENDHASAL - PANDIABIL-I &II	2.41	3.46	302.01	24	14.00	-145.95	29	20.00
32	Vedanta, Jharsuguda	58.438	83.963				400KV DUBURI - PANDIABIL	-71.24	-102.35	0.00	30	1.00	-318.31	24	14.00
33	Vedanta, Lanjigarh	0.590	0.847				400KV DUBURI - BARIPADA	5.61	8.06	149.35	23	7.00	-133.25	16	12.00
34	VISA Steel, New-Duburi	1.100	1.580	6.74	9	12.00	400KV VEDANTA-JHARSUGUDA Ckt-I	-29.88	-42.92	202.32	10	3.00	-191.40	17	16.00
35	Yazdani Steel & Power Ltd., J.J Rd	0.000	0.000				400KV VEDANTA-JHARSUGUDA Ckt-II	-29.94	-43.01	202.68	10	3.00	-191.87	17	16.00
35	Vedanta Ltd. (3*600)	1.574	2.261				400KV OPGC-JHARS PG- I	-79.16	-113.73	84.06	10	3.00	-260.38	17	16.00
	Total support from CPPs	659.295	947.263				400KV OPGC-JHARS PG- II	-81.56	-117.18	84.21	10	3.00	-259.91	17	16.00
Net ISGS								118.57	170.36	1272.11	9	12.00			

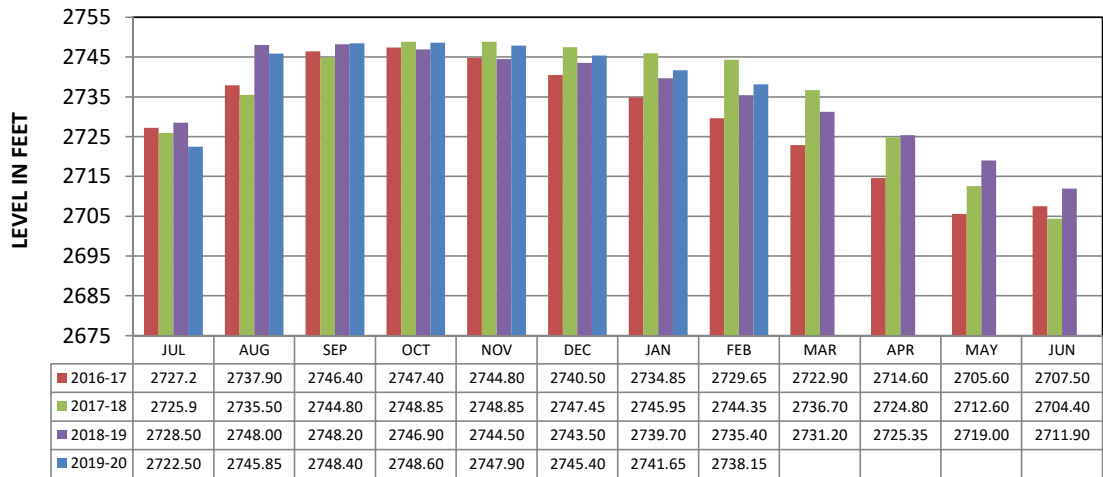
ABSTRACT OF SYSTEM DEMAND

Particulars	Energy MU	Average MW	Peak MW	DATE	TIME
Total gross generation(Including CPP+IPP)	2076.340	2983.247	2946.70	9	11.00
Power Station Auxiliary consumption	89.345	128.369	-	-	-
Total net generation(Including CPP+IPP)	1986.995	2854.878	2936.14	9	11.00
Net ISGS	118.567	170.355	1148.25	9	11.00
System Demand	2105.562	3025.233	4084.40	9	11.00
Average of Peak Demand (MW)		3443.770			
Average of Minimum Demand (MW)		2414.605			

DAILY GENERATION SHARING DURING PEAK DEMAND DURING FEBRUARY- 2020

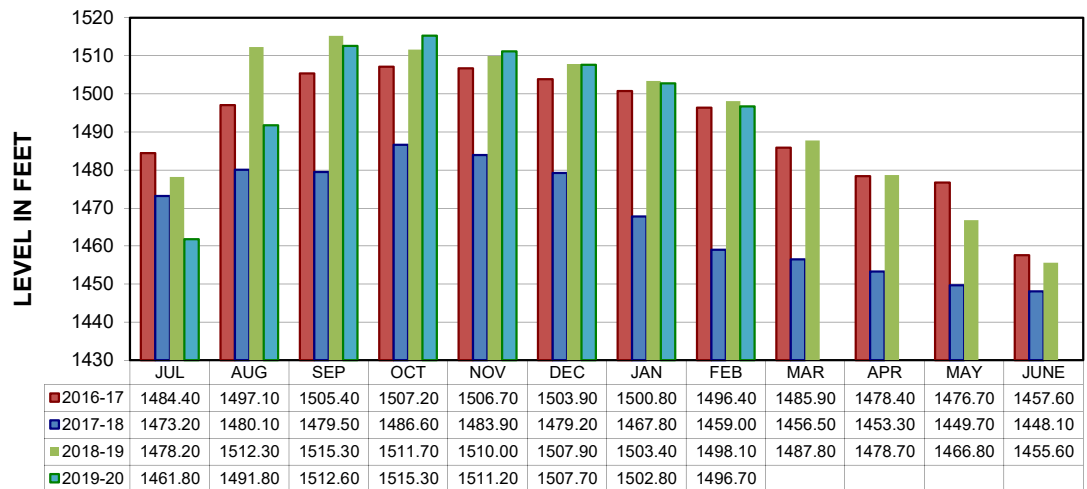


JOLAPUT RESERVOIR LEVEL



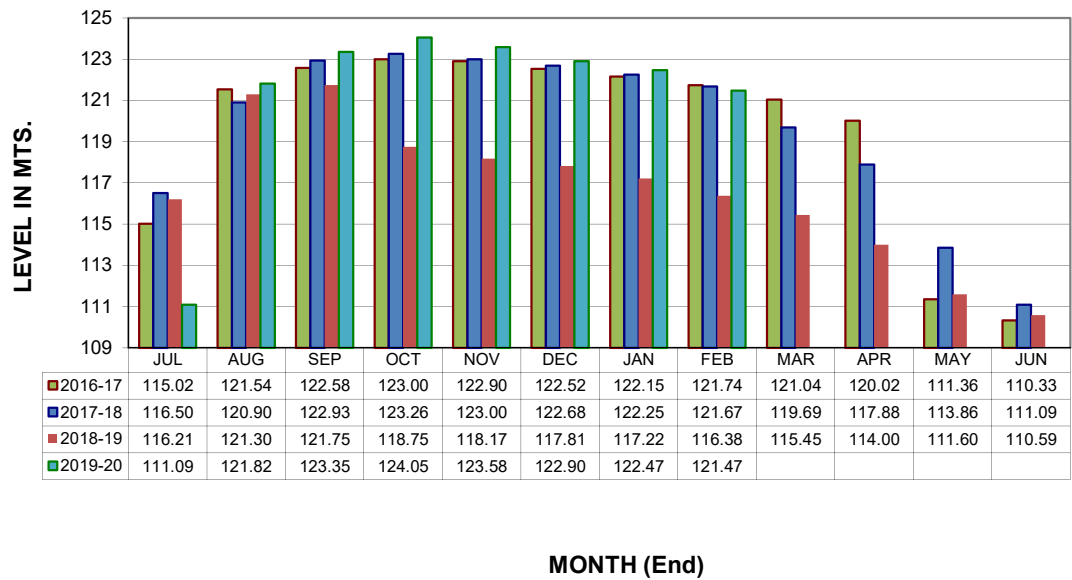
MONTH (End)

BALIMELA RESERVOIR LEVEL

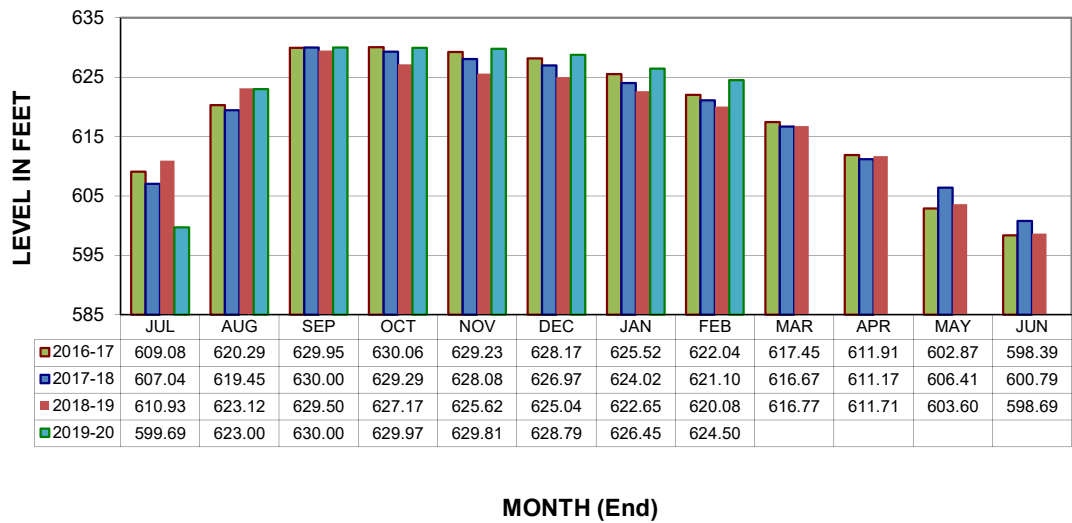


MONTH (End)

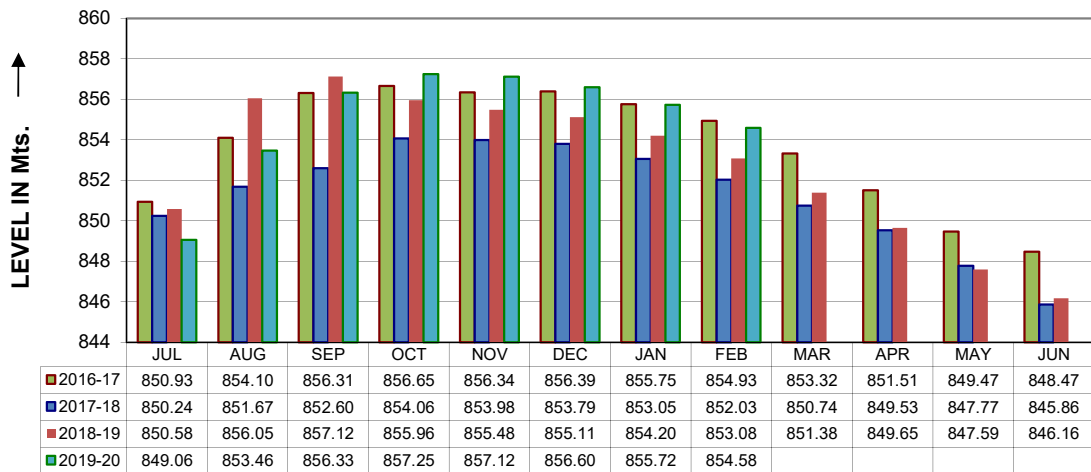
RENGALI RESERVOIR LEVEL



HIRAKUD RESERVOIR LEVEL

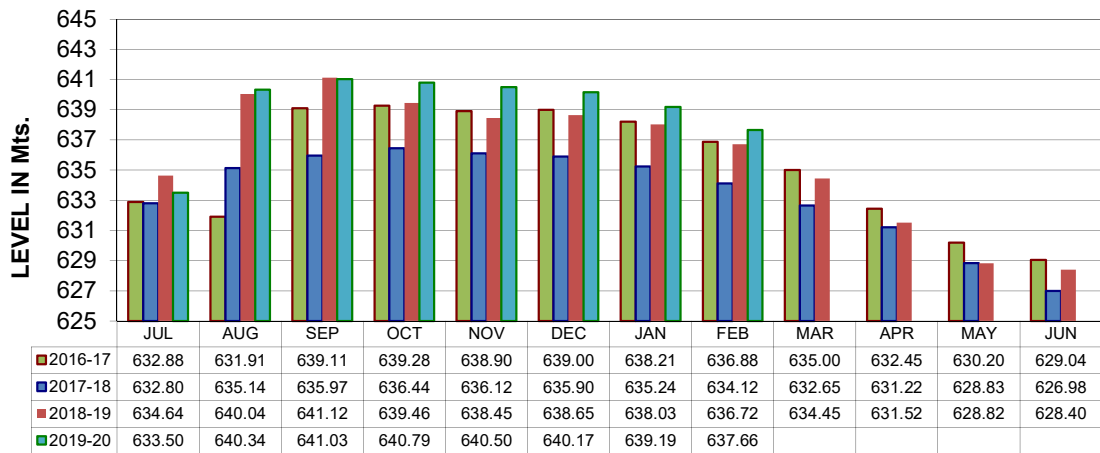


U.KOLAB RESERVOIR LEVEL



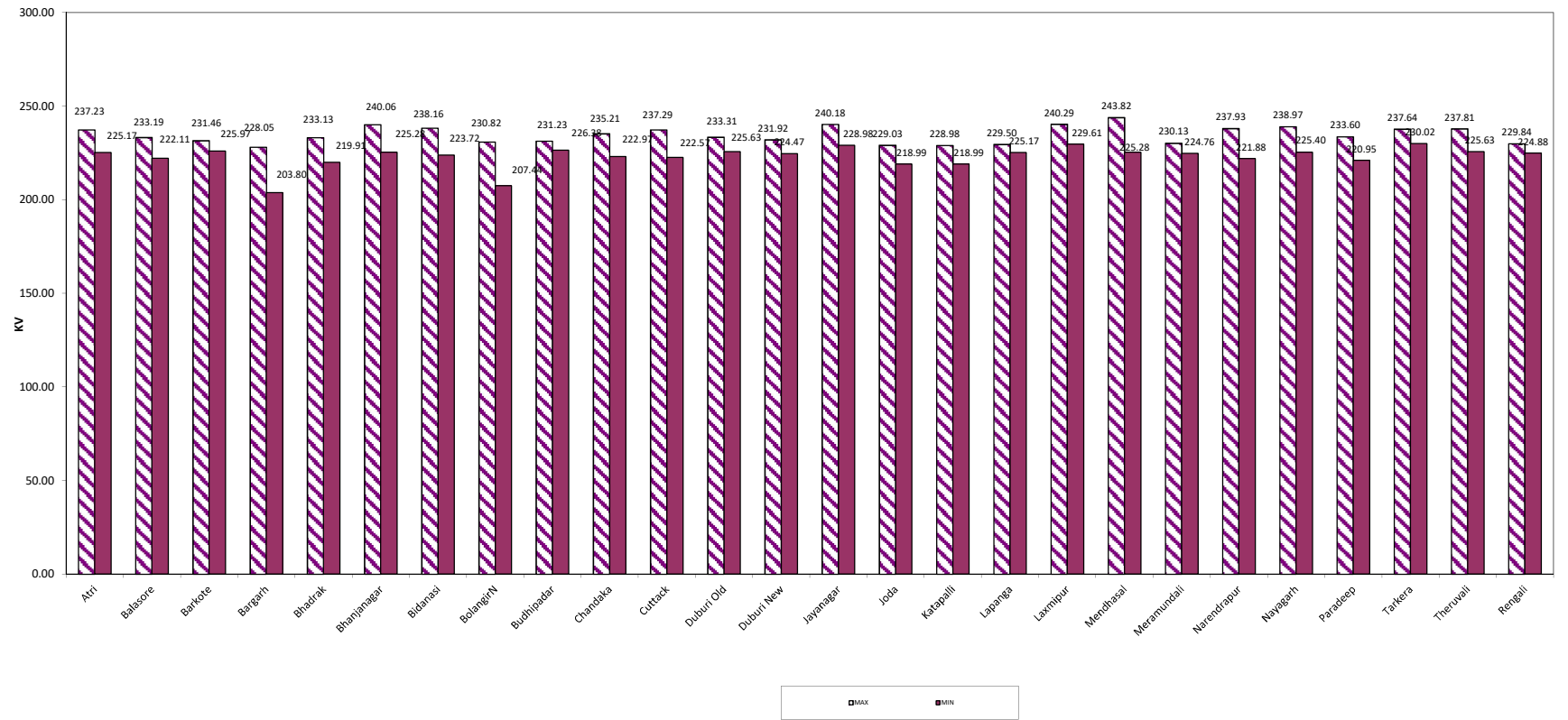
MONTH (End)

INDRAVATI RESERVOIR LEVEL



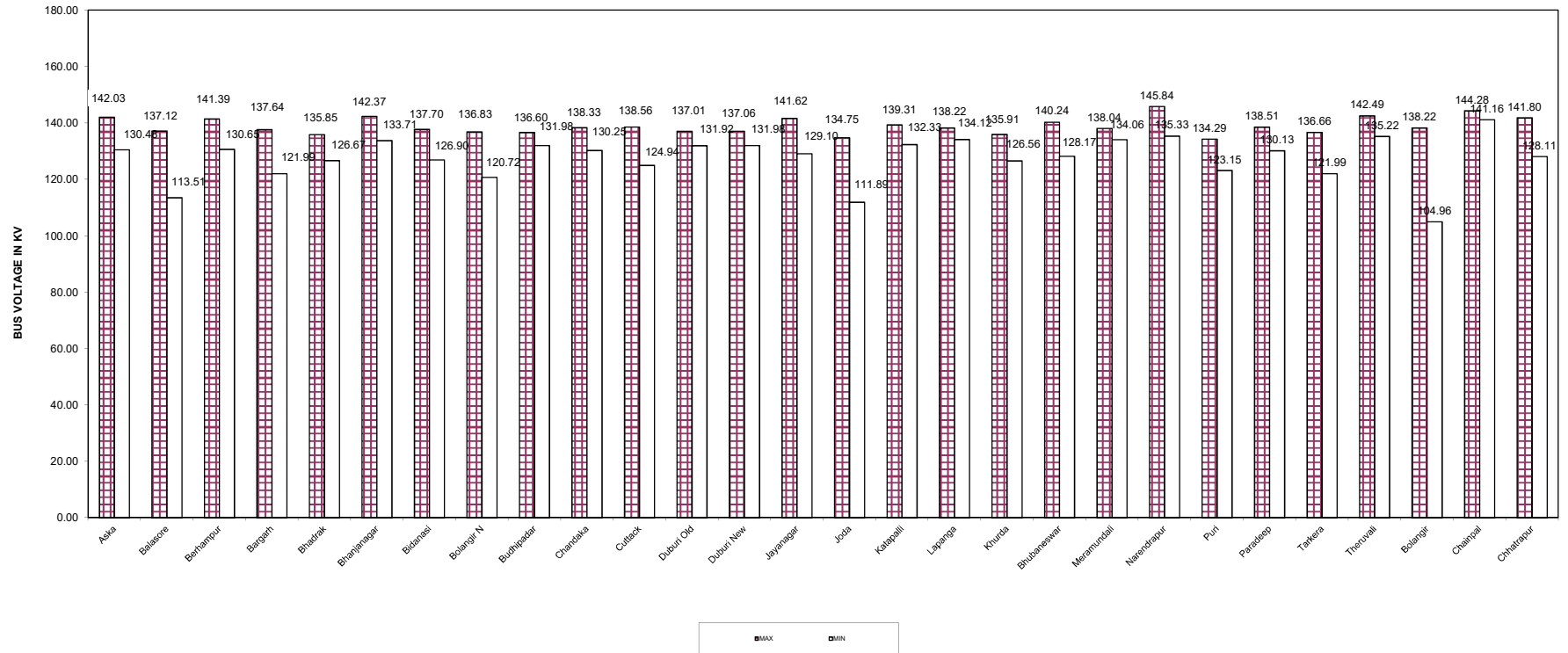
MONTH (End)

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

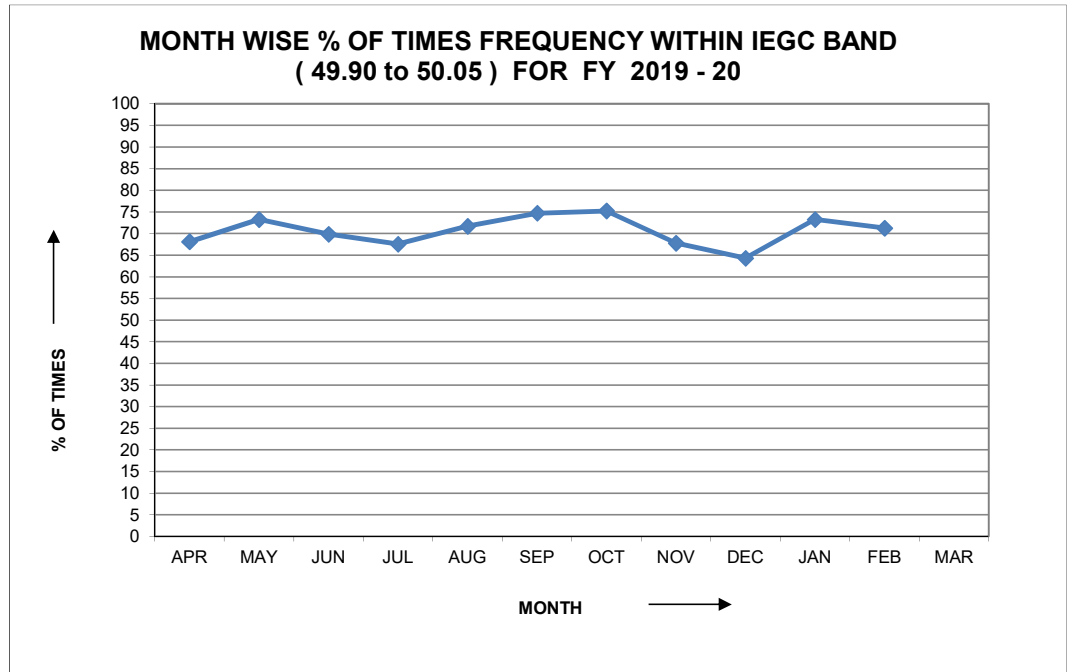


STATION	ATRI		BALASORE		BARKOTE		BARGARH(N)		BHADRAK		BHANUNAGAR		BIDANASI		BOLANGIR(N)		BUDHIPADAR		CHANDAKA		CUTTACK		DUBURI		DUBURI(N)		JAYANAGAR		JODA		KATAPALI		LAPANGA		LAXMIPUR		MENDHASAL		MERAMUNDALI		NARENDRAPUR		NAYAGARH		PARADEEP		TARKERA		THERUVALI	
	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	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.	9	05:00	26	01:45	11	02:45	28	13:45	26	02:00	11	01:45	11	03:45	16	08:15	26	05:00	9	02:15	11	04:00	10	01:30	19	03:45	7	00:45	5	04:30	5	04:30	27	02:00	7	04:00	9	15:45	11	03:45	9	05:00	11	01:45	10	01:45	23	22:30	7	04:00
MINM.	24	10:00	7	07:15	8	09:00	13	17:45	3	09:00	12	18:45	24	10:00	13	17:45	1	15:45	24	10:00	24	10:15	12	18:30	12	18:15	12	18:45	20	19:15	20	19:15	2	09:00	12	18:45	24	10:00	8	09:15	14	11:30	12	18:45	19	18:45	7	07:45	12	16:00

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



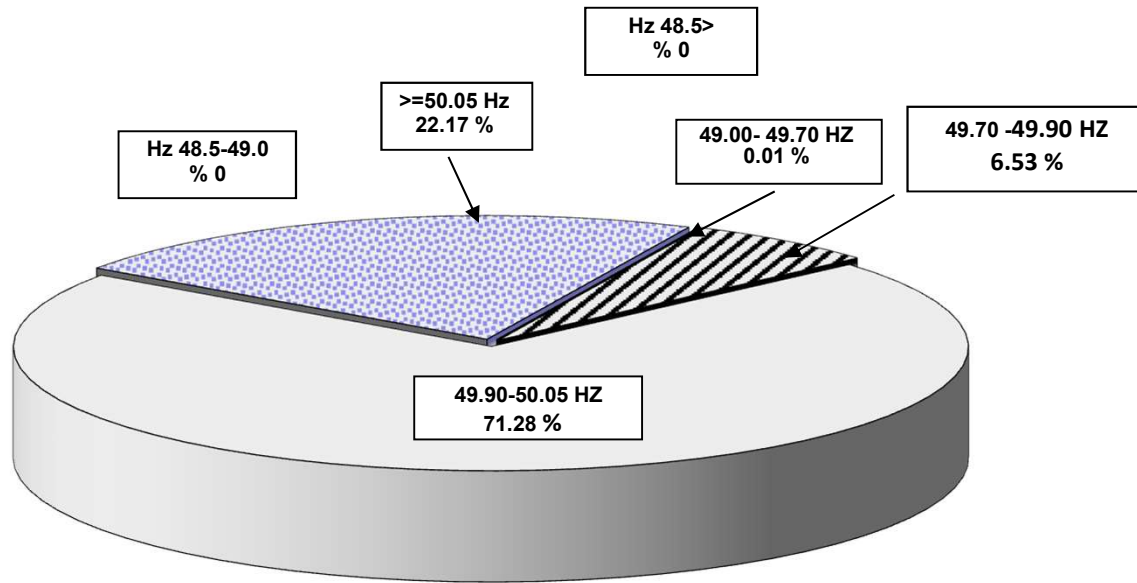
STN	CHATRAPUR		BALASORE		CHANNAL		BARGARH (N)		BHADRAK		BHANJANAGAR		BIDANASI		BOLANGIR		BUDHIPADAR		CHANDAKA		CUTTACK		DABURI		KHURDA		JAYANAGAR		JODA		KATAPALI		LAPANGA		MANCHESWAR		PURI		MERAMUNDALI		NARENDRAPUR		BERHAMPUR		PARADEEP		TARKERA		THERAVALI	
	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	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	16	2:45	26	01:45	7	02:45	5	02:45	26	02:00	11	01:45	9	15:30	16	08:15	24	03:30	9	02:15	11	3:45	19	03:45	19	03:45	7	00:45	23	14:15	5	04:30	5	04:30	2	01:45	9	02:15	11	3:45	13	03:30	4	02:00	10	01:30	16	08:15	7	05:30
MIN	12	18:30	3	08:15	20	08:30	23	16:30	3	10:00	12	18:45	24	10:00	13	17:45	28	08:45	24	10:00	9	10:45	27	09:00	27	09:00	19	09:15	19	12:45	20	19:00	3	10:15	24	10:00	23	10:30	8	9:15	14	11:30	14	08:30	17	19:00	13	17:45	12	16:00



**FREQUENCY WITHIN THE STANDARD BAND & ABOVE .
(FROM 2017-2018 TO 2019- 2020)**

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
	% 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		70.65
	% 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		23.04

MONTHLY FREQUENCY PROFILE FOR FEBRUARY 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	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.7-49.9	227	31	56	66	62	32	43	75	67	104	71	50	169	60	51
49.9-50.05	1049	994	1054	1108	1039	1063	993	1096	1077	1063	1108	1105	994	1078	1066
>50.05	157	415	330	266	339	345	404	269	296	273	261	285	277	302	323
>=50.1Hz	10	70	45	42	89	49	63	34	50	47	38	50	43	27	84

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
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	3	0	0	0	0	0	0	0	0		0
49.7-49.90	76	54	44	41	22	132	182	81	64	46	50	39	33	11	16		34
49.9-50.05	1076	1137	1092	1023	1004	1013	1052	1022	1073	1007	895	1003	1099	1118	1102		527
>50.05	288	249	304	376	414	295	203	337	303	387	495	398	308	311	322		159
>=50.10Hz	45	65	43	69	92	57	30	62	81	78	101	62	40	48	35		27

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

Sl.No	Name of Sub Station	Name of Feeder	Installed Capacity	SMD	Average Drawal	MAX DEMAND		
						MW	Date	
1	Angul	MCL Feeder-1&2	132 kV	23.0408	19.7097	30.3661	12-Feb-2020 19:00	
		Angul	2x40+1x20=100	21.2164	16.1055	32.2710	06-Feb-2020 9:15	
2	Angul PG	PGCIL Stn. Tertiary		0.1382	0.1536	0.1382	01-Feb-2020 0:00	
	Arati Steel	Arati Steel	132 kV	0.0000	0.0532	6.9647	27-Feb-2020 4:30	
3	Argul	Argul	2x40+1x20=100	16.4272	7.8042	19.5503	12-Feb-2020 12:15	
4	Badagada	Badagada	2x63=126	12.6437	15.9812	50.3636	01-Feb-2020 7:15	
5	Balugaon	SOLARI Traction	132 kV	4.3383	6.2772	13.0957	08-Feb-2020 0:30	
		Balugaon	1x40+1x20+1x12.5=72.5	22.2098	16.0175	42.3452	19-Feb-2020 8:15	
6	Banki	Banki	2x20=40	6.3881	5.1791	9.5072	12-Feb-2020 9:00	
7	Bhubaneswar	Bhubaneswar	3x63=189	59.8712	49.1790	85.0395	14-Feb-2020 11:15	
8	Bidanasi	Bidanasi	2x63+1x40=166	40.6050	32.3212	68.7362	19-Feb-2020 12:30	
9	Boinda	Boinda Traction	132 kV	5.2571	1.7078	10.6981	16-Feb-2020 8:45	
		Boinda	1x20+2x12.5=45	14.0816	9.0992	18.6206	03-Feb-2020 10:45	
10	BPPL S/W	BPPL Fdr-I&II	132 kV	0.0000	0.0008	0.0360	17-Feb-2020 13:45	
11	Chainpal	FCI Feeder	132 kV	0.5091	0.3409	0.5904	07-Feb-2020 8:30	
		Talcher Rd. Trac.	132 kV	4.2183	5.3161	13.2717	16-Feb-2020 7:00	
		Chainpal	2x40+1x20=100	35.9351	26.0178	49.1193	12-Feb-2020 8:30	
12	Chandaka	Chandaka	3x63=189	60.3281	52.4251	78.1834	14-Feb-2020 10:45	
13	Chandpur	Chandpur	1x20+2x12.5=45	7.0623	5.6279	11.1729	08-Feb-2020 8:15	
14	Choudwar	Choudwar Traction	132 kV	7.8953	7.9058	18.9609	02-Feb-2020 11:00	
		Choudwar	3x40=120	44.5225	36.7611	70.9153	22-Feb-2020 11:15	
15	Cuttack	Cuttack	3x40=120	25.3515	21.4736	38.0440	29-Feb-2020 12:30	
16	Dhenkanal	Joranda Trac.	132 kV	4.6435	6.9143	16.1297	21-Feb-2020 15:15	
		Narveram CGP Fdr	33 kV	0.0000	0.0406	2.7756	09-Feb-2020 6:15	
		Dhenkanal	3x40=120	29.7172	23.1540	48.8275	12-Feb-2020 8:45	
17	Grid Steel Alloy S/W	GSAL Feeder	132 kV	0.0000	0.0000	0.0000	01-Feb-2020 0:00	
18	Hind Metalics	MGM Feeder	132 kV	0.0000	0.0030	2.0391	25-Feb-2020 17:45	
		NBVL Fdr-1&2	132 kV	0.0000	0.0000	0.0464	21-Feb-2020 12:15	
		SGEL Feeder	132 kV	0.0000	0.0574	1.8344	02-Feb-2020 16:45	
		Meramundali Trac.	132 kV	4.5569	5.0423	13.6010	05-Feb-2020 13:00	
19	Infocity-II GIS	Infocity-II GIS (220/33)	2x40=80	9.8491	8.7075	13.6741	18-Feb-2020 20:00	
20	Jagatsinghpur	Gorakhnatn Trac.	132 kV	6.1740	7.2043	13.2668	01-Feb-2020 16:15	
		Jagatsinghpur	1x40+2x20=80	22.2602	15.6787	25.4796	08-Feb-2020 8:15	
21	Kalarangi	Kalarangi	1x20+2x12.5=45	10.5528	7.9148	12.1260	24-Feb-2020 18:15	
22	Kamakhyanagar	Kamakhyanagar	1x20+2x12.5=45	13.0501	10.8306	20.7959	20-Feb-2020 11:15	
23	Kendrapada	Kendrapada	2x40+1x12.5=92.5	0.0000	13.3588	26.0467	03-Feb-2020 10:15	
24	Khairiakata	Khairiakata	2x40=80	4.6783	3.0638	9.0020	13-Feb-2020 18:45	
25	Khuntuni GIS	Khuntuni GIS	2x40=80	2.5006	2.4444	5.6192	25-Feb-2020 18:45	
26	Khurda	Kaipadar Trac.	132 kV	9.6450	8.7964	19.1559	20-Feb-2020 16:30	
		Khurda	4x40=160	38.0721	40.7583	68.5639	08-Feb-2020 9:15	
27	Konark	Konark	2x20=40	4.0945	2.8411	5.8836	23-Feb-2020 9:45	
28	Mania	Mania	1x20+1x12.5=32.5	0.6273	1.9357	6.5463	01-Feb-2020 20:45	
29	Marshaghai	Marshaghai	2x20=40	9.6057	6.2853	10.4787	23-Feb-2020 19:15	
30	Mendhasal	Mendhasal(220/33)	2x20=40	2.7743	1.0525	2.9403	29-Feb-2020 11:45	
31	Meramundali	BSL-TATA Fdr-1&2	220 kV	48.0240	14.1783	89.7508	05-Feb-2020 1:30	
		BRG Feeder	132 kV	9.7616	8.1258	21.4311	15-Feb-2020 0:00	
		JSPL Feeder-1&2	400 kV	0.0563	0.6818	52.9313	05-Feb-2020 5:30	
		RUNGTA Feeder	132 kV	0.4335	0.1893	0.5315	04-Feb-2020 20:30	
32	Narsinghpur	Narsinghpur(220/33)	2x40=80	2.6978	1.9363	3.6712	01-Feb-2020 18:15	
33	Navagarh	Navagarh (220/33)	2x40+1x20=100	30.4746	22.6235	46.8301	04-Feb-2020 7:15	
34	Nimapara	Nimapara	3x40=120	32.5615	25.1010	47.7133	18-Feb-2020 18:00	
35	Nuapatana	Nuapatana	1x40+1x20+1x12.5=72.5	22.3714	16.2176	34.3321	27-Feb-2020 8:30	
36	Olaver	Olaver	2x12.5=25	3.5883	2.4984	4.0626	19-Feb-2020 18:15	
37	Pandiabil PG	PGCIL Stn. Tertiary		0.0438	0.0486	0.0438	01-Feb-2020 0:00	
38	Paradeep	Essar Steel Fdr-1&2	220 kV	18.4613	0.0574	23.0175	25-Feb-2020 12:45	
		IFFCO Fder-1&2	132 kV	3.0240	2.2158	8.9494	27-Feb-2020 3:15	
		IOCL Feeder	220 kV	0.8830	0.4056	1.0642	20-Feb-2020 7:00	
		PPL Fder-1&2	132 kV	10.9802	8.4446	12.5177	13-Feb-2020 4:45	
		PPT Fder-1&2	132 kV	14.9257	9.5497	16.9006	22-Feb-2020 18:45	
		Paradeep	3x20=60	17.0133	11.7922	23.4897	08-Feb-2020 9:30	
39	Pattamundai	Pattamundai	2x20+1x12.5=52.5	15.2732	10.4270	16.5664	24-Feb-2020 11:15	
40	Phulnakshara	Phulnakshara	1x40+2x20=80	17.7453	13.9625	27.8946	11-Feb-2020 18:30	
41	Puri	Puri	3x40=120	24.6082	17.0653	45.3753	19-Feb-2020 18:30	
42	Ranasinghpur	Ranasinghpur	3x63=189	39.5822	33.1812	48.3350	15-Feb-2020 16:30	
43	Rengali PG	PGCIL Stn. Tertiary		0.0279	0.0310	0.0279	01-Feb-2020 0:00	
44	Rengali S/W	Rengali S/W (220/33)	2x20=40	11.0711	7.7354	12.1699	17-Feb-2020 7:45	
45	Salipur	OCL Feeder	132 kV	7.5414	6.7835	8.7271	10-Feb-2020 1:45	
		Salipur	3x20=60	18.0405	13.1507	24.1673	15-Feb-2020 9:45	
46	Samangara	Samangara	2x20=40	0.0000	1.4781	12.3342	04-Feb-2020 8:45	
47	Shamuka	Shamuka	2x31.5=63	11.3045	11.9329	26.5339	12-Feb-2020 8:15	
48	Tirtol	Tirtol	2x40=80	3.1645	2.2575	4.1848	18-Feb-2020 12:45	
49	TS Alloys S/W	RAWMET Feeder	132 kV	18.0903	19.9726	22.6528	01-Feb-2020 16:15	
50	Unit-8 GIS	Unit-8 GIS	1x40=40	8.2396	4.2325	11.3309	23-Feb-2020 12:30	
		Balugaon	Khallikote Feeder	33 kV	-11.9798	-8.1706	14.3075	09-Feb-2020 8:15
		Chandikhol	Badachana Feeder	33 kV	0.0000	0.0000	01-Feb-2020 0:00	
		Rairakhol	Bamur Feeder	33 kV	10.9790	8.3117	12.4614	05-Feb-2020 9:30
		Rengali	BUDHAPAL Feeder	33 kV	0.0000	0.1225	0.6311	13-Feb-2020 11:45
		Barkote	Pallhara Feeder	33 kV	2.5974	1.5604	3.4510	23-Feb-2020 18:15
		Chandaka	S.N. Mohanty(Solar)	33 kV	-0.7641	-0.6291	1.2231	21-Feb-2020 12:00
		Chandpur	MGM SOLAR	11 kV	0.0000	0.1243	0.6055	13-Feb-2020 12:00
		Chandpur	VIVACITY Solar	11 kV	0.0000	0.1203	0.5982	13-Feb-2020 12:15
		CESU TOTAL ENERGY (MU)		975.6627	535.4026	1,673.6377		

ENERGY DRAWAL OF WESCO CONTROL AREA GRID SUBSTATIONS FOR THE MONTH OF FEBRUARY'2020							
Sl.No	Name of Sub Station	Name of Feeder	Installed Capacity	SMD	Average Drawal MW	MAX DEMAND	
						MW	Date
1	Aryan-Viraj S/W	Arvan Ispat Feeder	132 kV	0.177	0.149	1.805	29-Feb-2020 8:30
		Arvan-Viraj	132 kV	0.067	0.035	4.135	28-Feb-2020 23:00
2	Bamra	Bamra Traction	132 kV	6.413	7.564	16.025	19-Feb-2020 7:30
3	Barapalli	Dunguripali Tr.	132 kV	3.672	2.987	10.594	28-Feb-2020 13:30
		Barapalli	1x40+1x20=60	25.953	25.166	44.189	15-Feb-2020 8:30
4	Bargarh	ACC Feeder-1&2	132 kV	0.288	0.664	8.268	05-Feb-2020 23:45
		Bargarh	1x40+1x20=60	58.148	55.204	95.186	13-Feb-2020 10:45
5	Bargarh (New)	Bargarh (New)	132 kV	0.000	0.005	0.026	04-Feb-2020 19:15
6	Barkote	Barkote (220/33)	3x40=120	4.901	5.955	9.644	14-Feb-2020 18:45
7	Bhalulata	Bhalulata Traction	1x12.5=12.5	2.987	3.795	10.964	09-Feb-2020 0:00
8	Bhawanipatna	Bhawanipatna	33 kV	0.003	7.102	12.170	12-Feb-2020 8:15
9	Bolangir PG	415V side Tertiary	2x40=80	0.030	0.033	0.030	01-Feb-2020 0:00
10	Bolangir	Bolangir	11 kV	33.974	25.264	64.523	14-Feb-2020 8:45
11	Bolangir (New)	Bolangir (New)	132 kV	1.044	0.131	8.959	29-Feb-2020 18:45
12	Bonai	Bonai(220/33)	2x12.5=25	6.059	7.655	12.611	03-Feb-2020 10:00
13	Brajarainagar	Brajarainagar	1x40+3x20=100	19.024	20.918	34.923	21-Feb-2020 18:30
14	Budhipadar	AAL Feeder-1&2	3x40=120	41.652	3.370	71.969	28-Feb-2020 12:15
		Basundhara Fder	2x20=40	4.948	1.926	5.628	24-Feb-2020 3:15
		BPSL Fder-1&2	1x40+3x20=100	36.450	27.348	88.257	11-Feb-2020 7:00
		MCL Fder-1&2	220 kV	12.669	13.016	28.196	06-Feb-2020 9:15
		MSP Feeder	220 kV	0.000	0.000	0.000	01-Feb-2020 0:00
		SPS(CONCAST) Fdr	220 kV	0.000	0.000	0.000	01-Feb-2020 0:00
		Budhipadar	132 kV	8.887	6.590	15.152	15-Feb-2020 19:00
		Vedanta Ltd	132 kV	0.000	0.737	8.640	19-Feb-2020 17:45
15	Burla P.H.	Island & Incomer	220 kV	0.030	0.046	0.085	01-Feb-2020 0:00
16	Chandiposh	Chandiposh Trac	1x20+1x12.5=32.5	4.204	4.413	15.817	12-Feb-2020 8:00
17	Chend	Adhunik Metallic Fdr.	220 kV	0.000	0.000	0.000	01-Feb-2020 0:00
		Nuagaon Trac.	132 kV	2.712	1.877	7.958	19-Feb-2020 13:15
		Sri Ganesh Metallics	11 kV	0.000	1.451	2.559	12-Feb-2020 10:15
		Chend	220 kV	33.663	46.223	82.230	04-Feb-2020 7:45
18	Chipilima P.H.	Chipilima P.H.	132 kV	10.123	15.373	22.737	14-Feb-2020 7:00
19	Ghens	Ghens	132 kV	12.944	12.333	22.471	20-Feb-2020 10:30
20	Javapatna	Megalift Feeder-I & II	132 kV	1.333	0.126	8.626	28-Feb-2020 12:00
21	Jharsuguda	Jharsugda Trac.	3x40=120	16.200	12.964	23.489	18-Feb-2020 8:15
		Jharsuguda	1x20+1x12.5=32.5	11.162	11.710	20.565	04-Feb-2020 9:15
		Ultratech Feeder	1x40=40	3.163	8.245	11.495	27-Feb-2020 22:45
22	Junagarah	Junagarah	132 kV	15.868	15.891	22.955	14-Feb-2020 19:00
23	Kalunga	Kalunga	132 kV	36.376	36.857	42.782	01-Feb-2020 8:15
		Mahavir Ferro CGP	2x40=80	0.000	0.153	5.627	19-Feb-2020 1:15
24	Kantabanji	Kantabanji Trac.	132 kV	1.324	2.274	10.294	28-Feb-2020 14:45
		Kantabanji	2x40=80	6.795	5.489	8.529	17-Feb-2020 7:15
	Katapali	FRP Feeder	132 kV	14.119	12.081	20.644	04-Feb-2020 1:00
		HINDALCO Fdr-1&2	3x20=60	50.465	54.122	58.039	22-Feb-2020 22:15
26	Kesinga	Katapali	2x40=80	26.302	21.284	35.512	11-Feb-2020 7:15
		POWMEX Fdr	132 kV	0.431	0.716	3.300	12-Feb-2020 2:00
		Kesinga Traction	2x40=80	3.050	2.016	9.108	08-Feb-2020 18:45
27	Khariar	Kesinga	132 kV	27.825	21.068	37.145	11-Feb-2020 18:30
28	Kuchinda	Khariar	220 kV	15.533	16.988	28.798	24-Feb-2020 7:15
29	Lapanga	Kuchinda	1x40+2x20=80	7.765	8.257	12.608	20-Feb-2020 18:30
		Rengali Traction	132 kV	4.038	5.264	14.828	16-Feb-2020 21:15
30	Nuapada	Lapanga	33 kV	5.852	6.277	8.563	28-Feb-2020 18:45
		Nuapada Trac.	132 kV	0.000	0.000	0.000	01-Feb-2020 0:00
31	OPGC S/W Stn.	Nuapada	1x40+2x20=80	7.543	7.917	10.763	19-Feb-2020 7:30
		BGR Energy Ltd. Fdr	132 kV	0.023	0.025	0.023	01-Feb-2020 0:00
32	Padampur	BHEL Ltd. Feeder	2x40=80	0.004	0.004	0.004	01-Feb-2020 0:00
33	Patnagarh	Padampur	2x20=40	18.797	16.572	34.313	22-Feb-2020 16:45
34	Rairakhhol	Patnagarh	132 kV	13.339	12.041	35.079	19-Feb-2020 18:30
		Rairakhhol Trac.	1x20=20	2.070	2.154	9.188	24-Feb-2020 13:15
35	Rajgangpur	Rairakhhol	33 kV	4.812	4.734	8.152	13-Feb-2020 18:30
		OCL Feeder	33 kV	1.548	4.195	24.423	29-Feb-2020 19:45
		OISL Feeder	132 kV	2.228	1.012	2.486	07-Feb-2020 23:15
		Rajgangpur Trac-1&2	2x20=40	6.351	3.301	15.062	03-Feb-2020 11:15
36	Rourkela PG	Rajgangpur	33 kV	34.974	48.967	71.480	13-Feb-2020 11:45
37	Rourkela	PG Tertiary	33 kV	0.000	0.000	0.000	01-Feb-2020 0:00
		Rourkela Trac Tfr	132 kV	6.095	6.162	10.809	01-Feb-2020 4:00
38	Saintala	Rourkela	1x40+2x20=80	36.885	34.126	48.187	18-Feb-2020 11:00
39	Sambalpur	ORDNANCE Feeder	132 kV	0.799	1.233	2.598	24-Feb-2020 11:00
		Sambalpur	33 kV	46.442	39.382	77.472	20-Feb-2020 18:30
40	SMC S/W	Shvam DRI Feeder	1x40+2x20=80	23.306	20.619	25.119	02-Feb-2020 9:30
41	Sonepur	SMC Power	132 kV	1.209	2.591	4.363	14-Feb-2020 2:30
42	Sundargarah PG	Sonepur	33 kV	15.627	24.594	50.145	01-Feb-2020 19:00
43	Sundargarah	PG TERTIARY	3x12.5=37.5	0.117	0.130	0.117	01-Feb-2020 0:00
44	Tarkera	Sundargarah	132 kV	21.986	15.263	28.340	03-Feb-2020 7:30
		RSP Feeder-1&2	132 kV	166.975	85.147	189.298	09-Feb-2020 8:45
45	Tusura	RSP Feeder-3&4	132 kV	1.525	4.414	22.412	07-Feb-2020 13:30
46	VAL Lanjigarh	Tusura	3x40=120	10.404	8.839	15.744	13-Feb-2020 9:15
47	Vedanda S/W	Vedanta Al. fder-1&2	33 kV	0.018	0.384	14.788	05-Feb-2020 0:30

Barkote	Vedanta SEZ	33 kV	723.024	114.262	723.024	09-Feb-2020 11:30
Joda	Pallhara Feeder	1x12.5=12.5	0.000	0.000	0.000	01-Feb-2020 0:00
Rairakhol	Joda-Tensa Feeder	1x40+3x35=145	4.278	5.947	9.681	14-Feb-2020 20:00
Rengali	Bamur Feeder	11 kV	-1.483	-1.560	3.451	23-Feb-2020 18:15
Sonepur	BUDHAPAL Feeder	1x40+1x12.5=52.5	0.844	0.629	1.223	21-Feb-2020 12:00
Tentulikhunti	Manamunda Feeder	132 kV	-6.423	-6.129	10.565	17-Feb-2020 7:45
ACME SOLAR	Mukhiguda Fdr	132 kV	0.000	1.067	1.588	15-Feb-2020 18:30
Bamra	ACME SOLAR	1x40+2x31.5=103	0.000	0.037	0.187	13-Feb-2020 20:00
Barkote	Joy Iron Steel (Solar)	132 kV	0.479	0.112	0.485	09-Feb-2020 12:00
Kesinga	Molisati Solar	132 kV	0.000	0.113	0.493	10-Feb-2020 11:45
Kesinga	SADIPALI Solar	33 kV	2.419	4.695	19.188	18-Feb-2020 12:15
Kesinga	Vento Power Solar -1	33 kV	0.000	0.045	0.108	01-Feb-2020 1:00
Bonei	Vento Power Solar -2	2x40+1x20=100	0.000	0.026	0.072	01-Feb-2020 0:00
Padampur	Mahavir Solar	33 kV	0.000	0.122	0.592	19-Feb-2020 12:15
Patnagarh	Dakshin UPL solar	33 kV	0.000	0.043	0.108	01-Feb-2020 1:15
Patnagarh	ALEX Solar Pvt. Ltd.	1x40+2x20=80	0.000	0.000	0.000	01-Feb-2020 0:00
Bolangir (New)	JYOTI Solar	33 kV	3.305	2.121	9.342	26-Feb-2020 12:45
Saintala	REHPL(Solar)	11 kV	0.000	0.133	0.651	26-Feb-2020 11:15
Sonepur	BEL-OFBL Solar	33 kV	0.000	0.016	0.043	24-Feb-2020 22:45
Sonepur	GEDCOL Solar	1x40+1x20=60	3.042	3.071	13.669	18-Feb-2020 12:00
Tusura	ABACUS Holdings		0.522	0.156	0.785	18-Feb-2020 12:00
Tusura	Vento Power Solar-I	132 kV	0.000	0.039	14.328	26-Feb-2020 12:15
	Vento Power Solar-II		0.000	0.027	0.080	13-Feb-2020 17:15
WESCO TOTAL ENERGY (MU)			1,731.7041	701.4923	2,598.6864	

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

Sl.No	Name of Sub Station	Name of Feeder	Installed Capacity	SMD	Average Drawal	MAX DEMAND	
						MW	Date & Time
			MVA	MW	MW		
1	Agarpada	Agarpada	1x40=40	1.101	0.786	1.345	15-Feb-2020 18:45
2	Anandpur	Anandpur	1x20+2x12.5=45	11.549	8.803	14.576	13-Feb-2020 7:15
3	Arya Ispat S/w	ARYA Steel Fdr	132 kV	6.358	6.671	8.066	27-Feb-2020 15:30
		BRPL Feeder	132kV	7.242	8.000	9.923	07-Feb-2020 18:45
		IMTCPL Fder	132kV	0.000	0.000	0.000	01-Feb-2020 0:00
4	Balasore	BIRLA Tyre Fder	132 kV	5.544	2.980	9.354	08-Feb-2020 23:30
		ISPAT Feeder	132 kV	45.792	48.010	56.506	03-Feb-2020 20:00
		Balasore Traction	132 kV	6.126	6.881	13.454	22-Feb-2020 16:00
		Balasore	2x63+1x40=126	49.393	41.839	44.343	03-Feb-2020 18:15
5	Bangiriposi	Bangiriposi	2x12.5=25	3.453	2.938	5.068	20-Feb-2020 17:30
6	Barbil	Barbil	2x12.5=25	9.592	7.815	11.245	12-Feb-2020 8:15
7	Baripada PG	Baripada PG Stn.		0.064	0.072	0.064	01-Feb-2020 0:00
8	Baripada	Baripada	3x40=120	25.244	22.061	31.110	02-Feb-2020 11:00
9	Basta	Basta	2x20+1x12.5=52.5	22.274	16.124	25.065	19-Feb-2020 7:30
10	BC Mohanty S/w	Bamnipal(New) Fdr	132 kV	20.916	21.855	22.023	01-Feb-2020 18:45
		BC Mohantv fdr	132 kV	3.759	4.171	4.298	24-Feb-2020 15:45
		TOMKA Traction	132 kV	3.220	2.809	15.233	26-Feb-2020 8:30
11	Betanati	Betanati	1x20=20	7.608	6.388	9.403	13-Feb-2020 8:30
12	Bhadrak	Dhamra Port (Trac.)	132 kV	2.857	2.565	5.799	28-Feb-2020 19:45
		Dhamra Port Fder	132 kV	5.888	6.168	10.669	18-Feb-2020 19:30
		FACOR Feeder	132 kV	8.645	0.177	24.562	16-Feb-2020 6:00
		FACOR Power	132kV	0.000	0.002	0.036	01-Feb-2020 1:00
		Bhadrak Traction	132 kV	9.303	6.876	12.391	03-Feb-2020 15:00
		Bhadrak	2x63+1x40=166	43.153	31.503	48.723	28-Feb-2020 16:45
13	Bhograi	Bhograi	2x40=80	7.481	5.507	12.783	13-Feb-2020 12:15
14	Bolani	Bolani(132/11)	2x10=20	2.605	2.331	4.697	14-Feb-2020 10:00
15	BRPL S/w	BRPL Feeder	132 kV	15.144	15.340	15.821	27-Feb-2020 14:00
		Mesco Feeder	132 kV	0.377	0.349	0.518	08-Feb-2020 22:15
16	Chandabali GIS	Chandabali GIS	1x40=40	4.540	3.382	5.635	14-Feb-2020 18:15
17	Chandikhoh	Chandikhoh	3x20=60	23.971	20.918	40.210	10-Feb-2020 10:45
18	Dhenkikote	Dhenkikote	1x20=20	3.316	2.535	3.488	17-Feb-2020 18:30
19	Duburi	Jakhapura Traction	132 kV	9.470	10.177	17.906	28-Feb-2020 12:15
		JFAL Feeder	132 kV	0.000	0.000	0.000	01-Feb-2020 0:00
		Mishrilal Feeder	132 kV	6.167	5.665	6.517	28-Feb-2020 7:30
		NINL Feeder	220 kV	0.000	0.596	4.680	10-Feb-2020 23:30
		Duburi(220/33)	2x40=80	14.249	11.890	31.033	12-Feb-2020 18:30
20	Duburi-New	Emami Feeder	220 kV	9.403	3.439	10.524	28-Feb-2020 23:45
		Jindal Stainless-1&2	220 kV	18.108	10.809	20.772	04-Feb-2020 21:30
		Maithan Feeder	220 kV	0.000	0.000	0.000	01-Feb-2020 0:00
		Rohit Ferrotech	220 kV	19.498	19.615	26.870	02-Feb-2020 1:15
		TATA Steel Fdr-1&2	220 kV	97.492	73.023	145.599	19-Feb-2020 11:45
		VISA Steel	220 kV	0.290	0.053	4.392	25-Feb-2020 11:00
		Jaganath Steel Fdr	132 kV	1.747	1.602	3.958	24-Feb-2020 21:00
21	Jaipur Road	Jaipur Road	3x40=120	34.373	29.244	41.620	07-Feb-2020 11:15
		Yazdani CGP Feeder	33 kV	0.000	0.000	0.000	01-Feb-2020 0:00
22	Jaipur Town	Jaipur Town	2x40+1x20=100	24.974	20.053	29.207	13-Feb-2020 7:30
23	Jaleswar	Jaleswar Trac.	132 kV	6.270	6.191	12.802	14-Feb-2020 19:00
		Jaleswar	2x31.5+1x12.5=75.5	25.826	20.178	37.617	13-Feb-2020 12:15
24	Joda	Bansapani Trac.	132 kV	9.721	7.574	17.581	01-Feb-2020 15:30
		FAP Feeder	132 kV	14.087	15.088	14.577	10-Feb-2020 13:45
		JSPL Trf-	2x50+1x20=120	47.675	50.755	70.569	09-Feb-2020 19:00
		TATA STEEL	220 kV	5.870	5.410	7.689	06-Feb-2020 18:45
		TATA Steel Long	220 kV	0.000	0.000	0.000	01-Feb-2020 0:00
		Joda	1x40+3x20=100	17.340	15.902	22.491	01-Feb-2020 18:00
		Sarada Ind (220/33)	132kV	1.586	1.346	2.472	23-Feb-2020 21:30
25	JSW Cement S/W	JSW Cement Fdr	132 kV	0.937	2.339	6.034	23-Feb-2020 14:15
26	Karaniia	Karaniia	1x20+2x12.5=45	14.352	11.162	15.040	20-Feb-2020 19:15
27	Keonihar GIS	Keonihar GIS	2x20=40	3.370	5.175	15.051	12-Feb-2020 7:45
28	Keonihar PG	PGCIL Stn. Tertiary	33 kV	0.122	0.136	0.122	01-Feb-2020 0:00
29	Nalda	Nalda Traction	132 kV	4.124	3.126	9.951	19-Feb-2020 16:45
30	Polasponga	ESIL Feeder	132 kV	13.257	11.075	20.038	21-Feb-2020 9:15
		MSP Feeder	132 kV	10.964	11.669	13.271	11-Feb-2020 6:45
		OSISL CGP Feeder	33 kV	0.000	0.000	0.000	01-Feb-2020 0:00
		Patnaik Steel CGP	33 kV	0.000	0.000	0.000	01-Feb-2020 0:00
		Palasponga Trac.	132 kV	10.375	6.135	17.150	05-Feb-2020 15:30
		Polasponga	1x40+3x20=100	25.899	19.255	27.250	14-Feb-2020 7:45
31	Rairangpur	Rairangpur	2x20+1x12.5=52.5	13.753	11.069	18.220	18-Feb-2020 10:00
32	Somnathpur	IMAMI Feeder	132 kV	0.632	1.397	3.447	28-Feb-2020 21:30
		Stork Feeder	132 kV	8.624	6.186	11.377	02-Feb-2020 16:45
		Somnathpur	2x12.5=25	2.991	2.767	4.972	15-Feb-2020 17:00
33	Soro	Soro	1x40+2x20=80	25.904	18.404	33.594	03-Feb-2020 13:00
34	Udala	Udala	1x40=40	8.611	6.840	9.337	29-Feb-2020 18:45
	Chandikhoh	Badachana Fder	33 kV	-9.764	-8.312	12.461	05-Feb-2020 9:30
	Joda	Joda-Tensa Fdr	33 kV	-5.698	-5.947	9.681	14-Feb-2020 20:00
		NESCO TOTAL ENERGY (MU)		849.1141	498.9915	1222.2800	

ENERGY DRAWAL OF SOUTHCO CONTROL AREA GRID SUBSTATIONS FOR THE MONTH OF FEBRUARY'2020							
Sl.No	Name of Sub Station	Name of Feeder	Installed Capacity MVA	SMD MW	Average Drawal MW	MAX DEMAND	
						MW	Date & Time
1	Akhusingi	Akhusingi	2X12.5=25	9.739	7.831	12.547	14-Feb-2020 19:00
2	Aska	Aska	4X40=120	51.106	31.808	68.363	11-Feb-2020 8:15
3	Balimela	Balimela (220/33)	1X40+1X20=60	10.473	8.456	17.162	15-Feb-2020 7:00
4	Berhampur	Berhampur	2x40+1x20=100	34.193	27.138	42.012	11-Feb-2020 18:15
5	Bhanjanagar	Bhanjanagar	2x40+1x16=96	23.000	15.042	23.822	04-Feb-2020 8:00
6	Boudh	Boudh	2x20=40	7.053	4.955	7.333	10-Feb-2020 18:00
7	Chatrapur	IRE Feeder-I&2	132 kV	6.269	6.543	10.497	15-Feb-2020 7:30
		Rambha Traction	132 kV	4.019	4.967	11.459	11-Feb-2020 12:30
		Chatrapur	3x20=60	16.138	14.030	30.739	16-Feb-2020 8:00
8	Chikiti	Chikiti	1x40=40	7.251	5.293	7.336	20-Feb-2020 18:30
9	Dabugaon	Dabugaon	2x12.5=25	9.011	7.184	13.282	18-Feb-2020 9:45
10	Digapahandi	Digapahandi	2x20+1x12.5=52.5	20.541	13.076	26.787	18-Feb-2020 16:15
11	Ganjam	GRASIM Ind. Ltd.	132 kV	15.150	23.181	22.968	13-Feb-2020 21:15
		Ganjam	2X12.5=25	13.014	7.979	14.913	02-Feb-2020 7:45
12	Jaypur PG	Jaypur PG Ter.	28KV	0.073	0.082	0.073	01-Feb-2020 0:00
13	Jayanagar	Jaypur Trac.	132 kV	24.434	12.092	27.293	08-Feb-2020 18:45
		Jayanagar	2x20+1x12.5=52.5	26.763	20.612	34.452	07-Feb-2020 11:15
14	Laxmipur	Laxmipur	1x20=20	7.918	5.442	9.273	28-Feb-2020 7:30
		Utkal Alumina Fdr-I&II	132 kV	9.396	0.101	9.940	09-Feb-2020 5:45
15	Malkangiri	Malkangiri (220/33)	2x40=80	10.832	7.904	22.320	20-Feb-2020 7:45
16	Meenakshi s/w	Megalift Feeder	33 kV	0.004	0.002	0.148	06-Feb-2020 13:30
17	Mohana	Mohana	2X12.5=25	5.330	3.605	7.813	01-Feb-2020 9:15
18	Muniguda	Bissam-Cuttack Tr	132 kV	0.505	2.529	16.336	20-Feb-2020 0:00
19	Narendrapur	TATA Feeder-I&II	132 kV	0.000	0.000	0.000	01-Feb-2020 0:00
		Narendrapur Trac	132 kV	7.808	5.246	14.340	26-Feb-2020 11:45
		Narendrapur	3x40+1x20=140	22.729	18.267	28.005	06-Feb-2020 7:15
20	Paralakhemendi	Paralakhemendi	3x12.5=37.5	11.178	9.060	14.469	11-Feb-2020 7:15
21	Phulbani	Phulbani	2x40+1x12.5=92.5	20.147	13.614	20.326	13-Feb-2020 18:45
22	Podagada	Podagada	1x12.5=12.5	1.613	0.945	1.924	14-Feb-2020 7:30
23	Potangi	Potangi	1X40=40	1.472	3.074	4.831	02-Feb-2020 7:15
24	Purushottampur	Purushottampur	1x20+2x12.5=45	11.853	8.317	17.717	14-Feb-2020 18:30
25	Rayagada	Rayagada Trac.	132 kV	3.574	2.801	11.085	09-Feb-2020 0:00
		Rayagada	2X12.5=25	6.114	4.927	12.074	25-Feb-2020 12:45
26	Sunabeda	HAL Feeder	132 kV	6.931	4.969	9.790	08-Feb-2020 8:30
		Sunabeda	1x20+2x12.5=45	21.241	16.154	23.595	18-Feb-2020 7:15
27	Tentulikhunti	Tentulikhunti	3x20=60	6.663	9.570	18.712	15-Feb-2020 11:15
28	Therubali	JK Feeder	132 kV	0.032	0.002	1.906	12-Feb-2020 15:45
		Therubali	2x12.5=25	9.352	7.150	10.484	19-Feb-2020 18:30
29	Umerkote	Umerkote	2x20=40	18.750	13.439	19.568	19-Feb-2020 8:00
	Balugaon	Khallikote Feeder	33 kV	13.173	8.171	14.307	09-Feb-2020 8:15
	Sonepur	Manamunda Feeder	33 kV	10.075	6.129	10.565	17-Feb-2020 7:45
	Tentulikhunti	Mukhiguda Fdr	33 kV	-1.552	-1.067	1.588	15-Feb-2020 18:30
	Tentulikhunti	Vento Energy Solar	132 kV	0.072	0.042	0.108	04-Feb-2020 4:45
		SOUTHCO TOTAL ENERGY (MU)		483.4368	251.0196	672.2663	

AUTO TRANSFORMER LOADING FOR THE MONTH OF FEBRUARY'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	52.44	18th Feb 2020	18:30	0.04	1st Feb 2020	05:30		
ASKA NEW	2x160	52.52	18th Feb 2020	18:30	0.04	2nd Feb 2020	14:45		
		88.28	12th Feb 2020	18:30	1.00	9th Feb 2020	02:15		
		87.64	12th Feb 2020	18:30	1.00	9th Feb 2020	02:15		
BALASORE 220/132 KV { Balasore, Birla Tyre(I), Ispat Alloy(I), Jaleswar, Jaleswar(T) }	3x160	67.92	3rd Feb 2020	19:00	31.56	4th Feb 2020	13:45		
		68.00	3rd Feb 2020	19:00	31.48	4th Feb 2020	13:45		
		71.28	3rd Feb 2020	18:00	33.40	4th Feb 2020	13:00		
		14.64	20th Feb 2020	10:30	0.32	4th Feb 2020	18:30		
BARGARH 220/132 kV	1x100	14.64	20th Feb 2020	10:30	0.32	4th Feb 2020	18:30		
	1x160	8.28	20th Feb 2020	10:30	0.04	24th Feb 2020	06:30		
BHADRAK 220/132 KV {Bargarh, Ghensh }	1x100	25.80	3rd Feb 2020	09:00	5.92	26th Feb 2020	02:00		
	1x160	54.88	3rd Feb 2020	11:30	11.20	26th Feb 2020	02:00		
	1x160	56.96	3rd Feb 2020	11:30	11.40	26th Feb 2020	02:00		
BHANJANAGAR 220/132 KV { Bhanjanagar, Aska, Phulbani, Ganjam, Chatrapur }	1x160	59.72	3rd Feb 2020	07:30	5.64	23rd Feb 2020	13:00		
	1x160	52.52	3rd Feb 2020	07:30	4.64	23rd Feb 2020	13:00		
	1x100	20.52	24th Feb 2020	18:15	0.04	23rd Feb 2020	09:30		
BIDANASI 220/132 KV {Bidanasi, Khurda }	1x100	29.84	12th Feb 2020	02:00	0.04	1st Feb 2020	06:00		
	1x160	41.72	12th Feb 2020	02:00	0.04	1st Feb 2020	21:30		
BOLANGIR (SADAIPALLI) 220/132 KV { Bolangir, Patnagarh, Sonapur, Saintala, Khariar, Barpalli }	2x160	124.04	2nd Feb 2020	18:15	0.12	10th Feb 2020	12:45		
		124.04	2nd Feb 2020	18:15	0.12	10th Feb 2020	12:45		
		131.00	2nd Feb 2020	18:15	0.48	26th Feb 2020	14:00		
BUDHIPADAR 220/132 KV { Jharsuguda, Jharsuguda Tr, Cemco(I), MCL, Sundergarh, Brajarajinagar, Rajgangpur }	2x160	92.16	2nd Feb 2020	19:15	14.20	28th Feb 2020	08:45		
		91.68	2nd Feb 2020	19:15	0.04	23rd Feb 2020	15:30		
CHANDAKA 220/132 KV { Chandaka, Bhubaneswar, Nimapada, Ransinghpur, Puri, Kesura, Kaipadar Tr. }	1x100	48.16	19th Feb 2020	11:45	17.08	9th Feb 2020	03:15		
	1x160	74.48	15th Feb 2020	12:30	29.52	9th Feb 2020	03:30		
	1x100	52.20	19th Feb 2020	11:45	18.28	9th Feb 2020	03:30		
	1x160	79.92	19th Feb 2020	11:45	28.28	9th Feb 2020	03:30		
CUTTACK	1x160	37.92	26th Feb 2020	11:30	0.20	18th Feb 2020	16:30		
	1x100	22.08	5th Feb 2020	08:45	0.04	18th Feb 2020	16:30		
DUBURI 220/132 KV {Duburi, Bamnipal(I), BRPL, MESCO, Jajpur Road, Kalarangi, Jajpur Town }	1x160	64.24	20th Feb 2020	18:30	2.40	17th Feb 2020	09:00		
	1x100	40.64	27th Feb 2020	09:00	1.32	17th Feb 2020	09:00		
	1x100	38.64	20th Feb 2020	18:30	1.12	17th Feb 2020	09:00		
	1x160	74.72	10th Feb 2020	09:15	0.08	18th Feb 2020	12:45		
JAYANAGAR 220/132 KV. {Damanjodi(NALCO), Traction S/Ss, JODA 220/132 KV { Joda, Tensa, FAP(I), Bolani(I), Nalda Tr., Polasponga, Rairangpur, Bhalulata traction }	1x160	83.68	11th Feb 2020	17:30	0.08	18th Feb 2020	12:45		
	3x100	67.68	11th Feb 2020	06:45	27.76	26th Feb 2020	13:45	*** - Alternate P/S from Kuchei.	
		UNDER SHUT DOWN							
KATAPALI 220/132 KV {Chipilima, Bargarh, ACC, Sonapur & Katapali area load. }	1x100	69.92	8th Feb 2020	17:30	28.76	26th Feb 2020	13:45	Supported by Burla & Chipilima power.	
	1x100	34.12	14th Feb 2020	07:45	0.12	15th Feb 2020	14:45		
	1x100	34.00	14th Feb 2020	07:45	0.04	6th Feb 2020	10:00		
LAPANGA {Kuchinda, Aryan Viraj, Shyam Metallics }	1x160	51.56	14th Feb 2020	07:45	0.04	7th Feb 2020	06:30		
	2x160	79.60	28th Feb 2020	08:45	25.12	5th Feb 2020	08:00		
		79.28	28th Feb 2020	08:45	25.04	5th Feb 2020	08:00		
MERAMUNDALI 220/132 kV {Meramundali Traction, Dhenkanal, Navchrome(I), Hind Metal, Aarti, BRG }	3x100	49.44	18th Feb 2020	18:45	0.04	1st Feb 2020	00:00		
		48.44	18th Feb 2020	18:45	0.72	9th Feb 2020	15:30		
		45.60	24th Feb 2020	10:15	0.68	9th Feb 2020	15:45		
Mendhasal { Part area load of Khurda S/S }	2x100	55.80	1st Feb 2020	05:30	4.80	18th Feb 2020	04:15		
		37.20	1st Feb 2020	09:15	1.20	16th Feb 2020	06:30		
NARENDRAPUR 220/132KV { Narendrapur, NarendrapurTr, Berhampur, Chhatrapur, Ganjam, Balugaon, Digapahandi, Mohana. }	2x160	118.88	5th Feb 2020	08:15	29.00	7th Feb 2020	03:00		
		95.84	6th Feb 2020	08:45	22.12	13th Feb 2020	03:45		
		1x100	68.36	5th Feb 2020	08:15	12.32	13th Feb 2020	03:45	
PARDEEP 220/132 KV { Paradeep, Kendrapada, Pattamundai, Chandikhol, Cuttack, Jagatsinghpur, Phulnakhara }	1x100	51.56	18th Feb 2020	11:15	11.60	5th Feb 2020	08:45		
	1x160	71.48	17th Feb 2020	19:00	20.04	5th Feb 2020	08:45		
	1x160	86.48	18th Feb 2020	11:15	19.72	5th Feb 2020	08:45		
TARKERA 220/132 KV { Rourkela, Rourkela Tr., RSP(I), Chhend , Adhunik Metal, Rajgangpur, OCL(I), Rajgangpur Tr. }	4x100	61.20	1st Feb 2020	17:30	13.16	23rd Feb 2020	21:45		
		64.36	1st Feb 2020	17:30	14.76	23rd Feb 2020	21:45		
		60.56	1st Feb 2020	17:30	13.00	23rd Feb 2020	21:45		
		60.52	28th Feb 2020	07:30	13.68	23rd Feb 2020	21:45		
		40.92	17th Feb 2020	19:00	4.88	14th Feb 2020	11:30		
THERUVALLI 220/132 KV. {Theruvalli, IMFAL(I), JK(I), Junagarh, Kesinga, Powmex(I), Rayagada }	1x160	56.12	24th Feb 2020	17:30	4.48	14th Feb 2020	11:30	Rayagada & Paralakhemundi can be fed from Machhkund system.	
	1x160	86.96	24th Feb 2020	17:30	6.84	14th Feb 2020	11:30		
	1x160	91.7	25th Feb 2020	06:45	0.00	5th Feb 2020	02:15		
TTPS 220/132 KV {Chainpal, FCI (I), Angul, MCL Nandira(I), Rairakhole, Boinda, Kamakhyanagar, Kalarangi, Nuapatna, Choudwarj }	1x160	91.7	25th Feb 2020	06:45	0.00	5th Feb 2020	02:15		
SAMANGARA { Puri, Nimapara & Konark }	2x160								

SYSTEM DISTURBANCE IN THE MONTH OF FEBRUARY-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	Budhipadar	04.02.20	18:21	18:35	00:14	132 kV Budhipadar - Kalunga feeder	At Budhipadar End: R, Y & B-Phase Trip, Zone-I, FL -L1-N, F.D = 74.558 Kms (71.69%), IL1= 1.27 kA				
2	Budhipadar	07.02.20	02:56	06:34	03:38	220 kV Budhipadar - Korba ckt -III	At Budhipadar end: 3-Ph Master trip Relay Operated				
3	Rajgangpur	09.02.20	09:43	10:05	00:22	132 kV Tarkera - Rajgangpur ckt -I	At Rajgangpur end: 64N operated				
4	Bhograi	11.02.20	04:55	05:22	00:27	132 kV Jaleswar-Bhograi feeder	At Bhograi end: Zone-1,Y-PH to E/F,Dist -5.8km ,IY-1140.3A.				
5	Jajpur Road	13.02.20	21:06	21:17	00:11	132 kV Jajpur Road - Anandpur ckt -II	At Jajpur Road end: Tripped				
6	Bidanasi	14.02.20	14:08	19:56	05:48	220 kV Bidanasi - Mendhasal ckt -I	At Bidanasi end: Distance Zone-I, O/C R-Phase,IR=1.829KA, Fault Distance=21.73 KM , At Mendhasal end:- Z1,R-phase , 14.01KA & 2KM (Due to Insulator puncture at Loc.No.11)				
7	Therubali	17.02.20	13:47	13:56	00:09	220KV Therubali- Indravati Ckt-II	At Therubali end: Zone-1, L3-N, 16.45 km				
8	Meramundali	17.02.20	19:02	19:59	24:57	400 kV Meramundali - Lapanga ckt - II	At Meramundali end : R-E,IR=7.53KA,68.7 KM,Fault Duration=65ms, At Lapanga end: R-E,IR=2.5 KA,150.3 KM (jumper snapped at Loc no-AP24)				
9	Chainpal	18.02.20	10:11	18:23	08:12	132 kV Chainpal - Angul feeder	At Angul end: Tripped on E/F (jumper snapped)				
10	Budhipadar	19.02.20	12:57	16:33	03:36	132 kV Budhipadar - MCL ckt -II	At Budhipadar End: FL = C- N, Dist - 5.405 Kms, IL3=11.21KA At MCL End: Zone-3 Operated				
11	Sundargarh	19.02.20	13:00	13:05	00:05	132 KV Budhipadar-Sundargarh ckt-I	At-Sundargarh: E/F , IL1=0.05 KA,IL2-0.07 KA,IL3=0.05KA				
12	Shamuka	20.02.20	16:28	16:38	00:10	132 kV Shamuka-Puri feeder	At Shamuka end: Tripped on E/F				
13	Meramundali	21.02.20	12:13	14:28	02:15	132 kV Meramundali - Khajuriakata feeder	At Meramundali end: YB Fault,Z1,5.55 KM,IY=8.6 KA,IB=8.4KA At Khajuriakata end: YB Fault,27.1 KM				
14	Sundargarh	21.02.20	16:59	17:08	00:09	132 KV Budhipadar-Sundargarh ckt -I	At Sundargarh end: Tripped on E/F (Y-phase)				
15	Rengali	22.02.20	10:26	10:45	00:28	220 kV Rengali S/Y-Rengali PH ckt-II	At Rengali SY end: IA=4176.0A,IB=316.7A,IC=78.5A,IN=1203.49A,IG=3972.00A				
16	Budhipadar	23.02.20	14:50	14:52	00:02	160 MVA Auto Transformer -II	Master Trip really operated				
17	Budhipadar	24.02.20	16:46	17:55	01:09	220 kV Budhipadar - IbTPS ckt -IV	At Budhipadar End: Dist. Trip,Relay Trip L1,L2,L3 Zone-I,FL=L1-E, F.D=07.8 Kms(30.6%), IL1=10.55 KA At IBTPS End D/P,Zone-I,FL=Rph-E,F.D=16.72 Kms				
18	Nuapatna	27.02.20	03:50	04:01	00:11	132 kV Nuapatna-Arati feeder	At Nuapatna end: Earth fault and R phase pickup.				
19	Sundargarh	27.02.20	08:46	13:12	04:26	132 kV Budhipadar-Sundargarh ckt-I	At Sundargarh end :O/C,E/F, R-Phase, IL1=809 A, IL2=20 A, IL3=22 A, N=837 A,Zone-I,Dist.=21.26 km At Sundargarh end: :O/C,E/F, R-Phase, IL1=893 A, IL2=91 A, IL3=129 A, N=1108 A,Zone-I,Dist.=19.66 km				
20	Budhipadar	28.02.20	08:46	13:08	04:22	132 kV Budhipadar - Sundergarh ckt -I	At Budhipadar end: Zone-1,R-Ph E/F,Ir-14.72KAmp At Sundergarh end: O/C R-Ph, E/F (Failure of R-Ph LA of 132KV Budhipadar-Sundargarh Ckt-I)				
			08:46	08:56	00:10	160 MVA Auto Transformer -I	Tripped on O/C & E/F (R-ph)				
21	Meramundali	28.02.20	14:01	14:31	24:30	400 kV Meramundali -Mendhasal ckt- II	At Meramundali end : R-E,IR=4.016 KA,73.14 KM At Mendhasal end: R-E,IR=5.43KA,32.6 KM				
22	Bhograi	29.02.20	22:27	22:46	00:19	132 kV Jaleswar-Bhograi feeder	At Bhograi end: Zone-1,B-Ph E/F,Dist -11.5 km ,IB-1053.8A.				

SYSTEM DISTURBANCE IN THE MONTH OF FEBRUARY- 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	Malkanagiri	01.02.20	11:35	11:41	00:06	132 kV Balimela - Malkanagiri ckt	Tripped at Balimela end	Malkanagiri	00:06		0.000790
2	Baripada	03.02.20	07:38	07:50	00:12	132 kV Baripada - Betonati feeder	At Baripada end: Tripped on E/F	Betonati	00:12		0.001276
3	Sonepur	03.02.20	14:52	15:04	00:12	132 kV Balangir-Sonepur feeder	At Bolangir end: Tripped	Boudh, Sonepur	00:12		0.001508
4	Polasponga	04.02.20	01:12	01:26	00:14	132KV Polasponga -RTSS(KJR) Feeder	At Polasponga end: O/C (R PH), Ia=224.1A, Ib=166.2A, Ic=65.04A, In measured= 6.315A, In derived= 6.039A	RTSS(KJR)	00:14		0.001430
5	Balasore	05.02.20	12:37	21:23	08:46	132 kV Balasore - Basta feeder	At Basta end: B-G (R,Y,B ph), FC:- 181A Dist -: 13.09KM (Insulator string failure at Loc -59)	Basta	00:16		0.004299
6	Polasponga	09.02.20	06:00	06:43	00:43	132KV Polasponga -RTSS(KJR) feeder	At Polasponga end: O/C (R PH), Ia=221.7A, Ib=149.9A, Ic=78.28A, In measured= 6.956A, In derived= 6.039A	RTSS(KJR)	01:11		0.007148
			06:43	07:12	00:28		At Polasponga end: O/C (R PH), Ia=219.8A, Ib=183.2A, Ic=41.51A, In measured= 6.901A, In derived= 5.808A				
7	Puri	10.02.20	07:12	09:21	00:09	132 kV Shamuka-Puri feeder	At Shamuka end : Tripped	Puri	00:09		0.002559
			07:12	09:36	00:10		40 MVA Power TRF-I				
8	Sonepur	12.02.20	08:12	08:33	00:21	133 kV Bolangir-Sonepur feeder	At Bolangir end: Tripped	Sonepur, Boudh	00:21		0.002639
9	Tentulikhunti	12.02.20	12:08	12:17	00:09	131 KV Jayanagar-Tentulikhunti feeder	At Jayanagar end: Tripped	Tentulikhunti Dabugaon Umerkote Patangi	00:09		0.004988
10	Bolangir	12.02.20	16:12	17:18	01:06	132 kV Bolangir - Sainatala feeder	At Bolangir end: Tripped	Acme,Saintala, Khariar,Nuapara, Tusura,Kantabanji, Kantabanji Tr	01:06		0.082159
11	Sonepur	12.02.20	16:15	16:36	00:21	132 kV Bolangir-Sonepur feeder	At Bolangir end: Tripped	Sonepur, Boudh	00:26		0.003267
			17:05	17:10	00:05						
12	Bolangir	12.02.20	17:34	17:46	00:12	132 kV Bolangir New - Bolangir ckt - II	At Bolangir end: Tripped	Sonepur, Boudh	00:12		0.009837
			17:35	17:40	00:05	132 kV Bolangir New - Bolangir ckt -I	At Bolangir New end: Tripped on O/C				
13	Sonepur	13.02.20	08:03	08:17	00:14	132 kV Bolangir-Sonepur feeder	At Bolangir end: Tripped	Sonepur, Boudh	00:28		0.003519
			15:05	15:19	00:14						
14	Bolangir	13.02.20	15:05	15:19	00:14	132 kV Bolangir - Sainatala feeder	At Bolangir end: Tripped	Acme,Saintala, Khariar,Nuapara, Tusura,Kantabanji, Kantabanji Tr	00:14		0.017488
15	Therubali	13.02.20	16:37	16:41	00:04	132 kV Therubali-Muniguda feeder	At Therubali end: Tripped on O/ C	Muniguda, VAL(Lanj), Kesinga, Kesinga Tr, Bhawanipatna, Junagarh, Powmex	00:04		0.003307
16	Sonepur	13.02.20	16:40	17:05	00:25	132 kV Bolangir-Sonepur feeder	At Bolangir end: Tripped	Sonepur, Boudh	00:32		0.004021
			17:51	17:58	00:07						
17	Tentulikhunti	14.02.20	09:11	09:30	00:19	132 KV Jayanagar-Tentulikhunti feeder	At Jayanagr end: Tripped	Tentulikhunti, Dabugaon, Umerkote, Patangi	00:19		0.010529
18	Jharsuguda	15.02.20	13:32	13:43	00:11	132 kV Jharsuguda - Ultrtech feeder	At Jharsuguda end: Tripped on E/F	Ultratech	00:11		0.001511

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	Sonepur	16.02.20	08:03	08:31	00:28	132 kV Bolangir-Sonepur feeder	At Bolangir end: Tripped	Sonepur, Boudh	00:28		0.003519
20	Salipur	17.02.20	09:13	12:40	03:27	132 kV OCL - Salipur feeder	At Salipur end: Tripped on O/C, E/F	Salipur	00:23	At 09:36 Hrs, P/S availed from Kendrapara end.	0.005041
21	Bhanjanagar	17.02.20	08:40	10:56	02:16	132 kV Bhanjanagar - Phulbani ckt	At Bhanjanagar end: Tripped on BCN,Z=1,D=42.73KM	Phulbani	02:16		0.030849
22	Khariar	19.02.20	04:59	05:02	00:03	132 kV Saintala-Khariar feeder	At Saintala end: Tripped	Khariar, Nuapada, Kantabanji, Kantabanji Tr	00:03		0.001755
23	Khariar	19.02.20	15:49	15:52	00:03	132KV Saintala-Khariar feeder	At Saintala end: Tripped on O/C	Khariar, Nuapada, Kantabanji, Kantabanji Tr	00:23		0.013455
			16:44	16:57	00:13						
			18:06	18:13	00:07						
24	Khariar	20.02.20	07:08	07:18	00:10	132KV Saintala-Khariar feeder	At Saintala end: Tripped on O/C	Khariar, Nuapada, Kantabanji, Kantabanji Tr	00:20		0.011700
			07:29	07:36	00:07						
			18:36	18:39	00:03						
25	Khariar	21.02.20	08:21	08:27	00:06	132KV Saintala-Khariar feeder	At Saintala end: Tripped on O/C	Khariar, Nuapada, Kantabanji, Kantabanji Tr	00:06		0.003510
26	Cuttack	22.02.20	05:20	05:27	00:07	220KV Cuttack - Bidanasi ckt - I & II	At Bidanasi end: Tripped	Cuttack, Phulnakhara	00:07		0.004134
27	Rairakhole	22.02.20	08:49	09:09	00:20	132 kV Rairakhole - Boinda feeder	At Rairakhole end : Tripped	Boinda	00:19		0.002879
			08:50	09:09	00:19	132KV Angul- Boinda feeder	At Angul end: Tripped on O/C R PH				
28	Bidanasi	23.02.20	05:20	24.02.20 16:35	35:15	220 kV Bidanasi - Mendhasal ckt -II	At Mendhasala End: Zone-I, R-Phase, 7.47KA, 4 KM (Due to jumper snapping at Loc.No.74 & bend the	Cuttack, Phulnakhara	00:18	Cuttack, Phulnakhara P/S availed from Bidanasi	0.010629
29	Khariar	23.02.20	08:52	08:58	00:06	132KV Saintala-Khariar feeder	At Saintala end: Tripped	Khariar, Nuapada, Kantabanji, Kantabanji Tr	00:06		0.003510
30	Angul	23.02.20	19:28	19:36	00:08	132KV Angul- Boinda feeder	At Angul end: Tripped on O/C (Y -PH)	Boinda	00:08		0.001212
31	Jharsuguda	23.02.20	21:21	10:09	13:28	132 kV Jharsuguda - Ultratech feeder	At Jharsuguda end: Tripped on E/F	Ultratech	13:28		0.111240
32	Barbil	24.02.20	21:24	21:55	00:31	132 kV Barbil - Bolani-Nalda-Beekay Steel feeder	At Nalda RTSS : Tripped	Barbil , Bolani , Arya , Nalda Traction, BRPL	00:31		0.018223
33	Tentulikhunti	25.02.20	18:21	18:39	00:18	132 kV Jayanagar-Tentulikhunti feeder	At Jayanagar end: Tripped	Tentulikhunti, Dabugaon, Umerkote, Potangi	00:18		0.009975
34	Therubali	25.02.20	22:23	22:42	00:19	132 kV Therubali-Muniguda Feeder	At Therubali end: Zone-2,ABT, 31.84Km, Ia= 3.3kA, Ib= 3.1kA	Muniguda,VAL (Lan),Kesinga, Kesinga Tr, Bhawanipatna, Junagarh, Powmex	00:19		0.015707
35	Khariar	28.02.20	07:53	07:59	00:06	132 kV Saintala-Khariar feeder	At Saintala end: Tripped from O/C	Khariar, Nuapada, Kantabanji, Kantabanji Tr	00:11		0.006435
			10:54	10:59	00:05						
36	Tentulikhunti	29.02.20	14:04	14:15	00:11	132 kV Jayanagar-Tentulikhunti feeder	At Jaynagar end: Tripped on E/F	Tentulikhunti, Dabugaon, Umerkote, Potangi	00:11		0.006096

STATEMENT OF UFR OPERATION IN GRIDCO SYSTEM DURING THE MONTH OF FEBRUARY-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 FEBRUARY - 2020		
Sl. No	Date	Details of event
1	11.02.2020	At 20:32 Hrs, 220 kV Mendhasal- Bidanasi ckt - II charged.
2	25.02.2020	At 14:55 Hrs, 400 kV Main Breaker of 400 kV Indrabati (PH)- Indravati (PG) feeder at PGCIL end charged.
3	26.02.2020	At 19:42 Hrs, 132 kV Chandaka B - Mancheswar B feeder charged.
4	28.02.2020	At 21:50 Hrs, 2 x 40 MVA 132/33 kV Power Transformers charged at GIS, Mancheswar-B
5	29.02.2020	At 14:32 Hrs, 400 kV Mendhasal- Meramundali ckt - II charged.