

SYSTEM PERFORMANCE REPORT



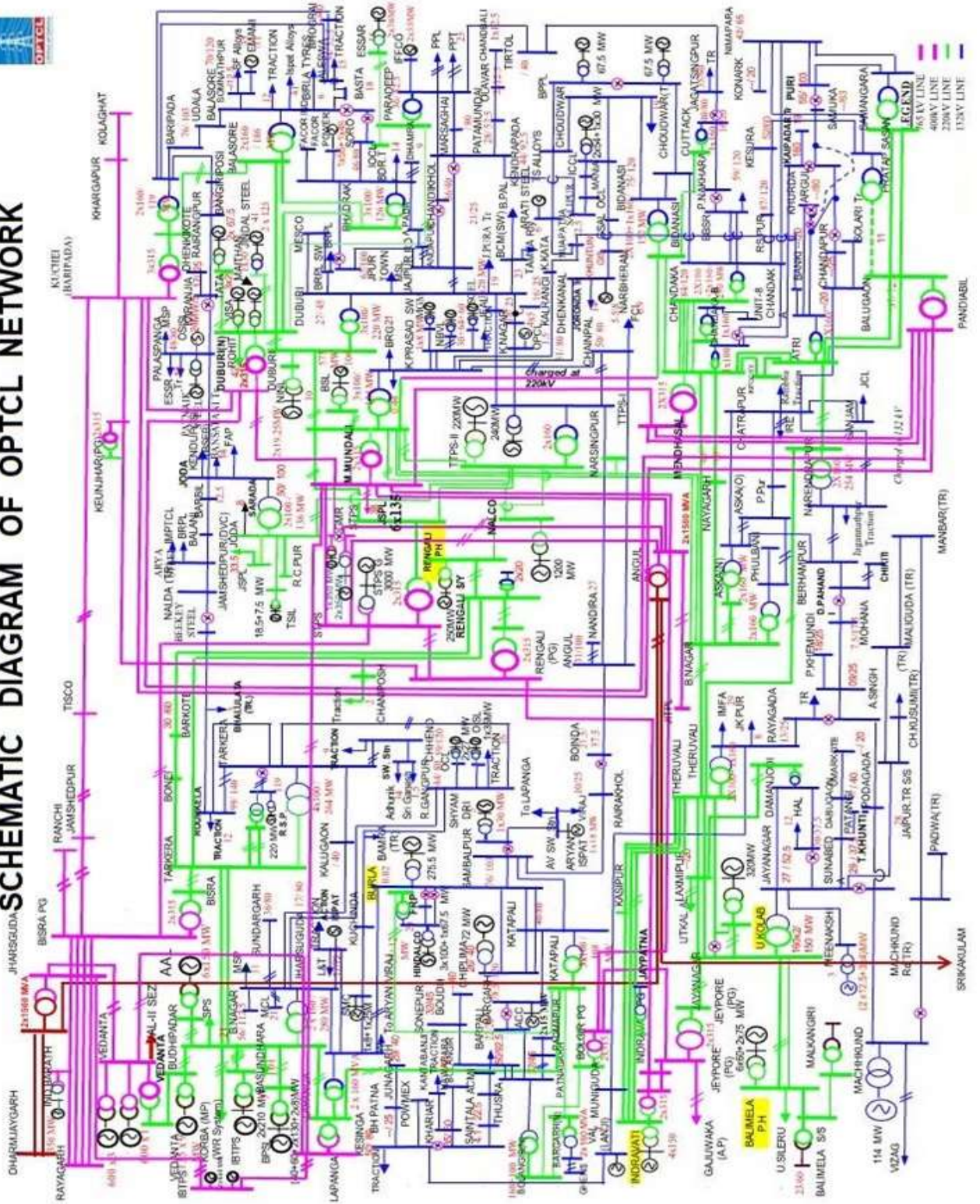
JANUARY'2020

SLDC, OPTCL
BHUBANESWAR – 17

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SCHEMATIC DIAGRAM OF OPTCL NETWORK



SUMMARY REPORT FOR JANUARY- 2020

A. Voltage Profile

220 KV

Maxm. -	240.47 kV	<u>Date & Time</u> 21.01.2020 03:30Hrs	<u>Location</u> Jayanagar
	>240 KV		Jayanagar, Laxmipur

Minm. -	196.76 kV	13.01.2020 06:45 Hrs	Bolangir New
	< 200 KV		Bolangir New.

132 KV

Maxm. -	146.01 kV	17.01.2020 02:30 Hrs	Narendrapur
	>145 KV		Narendrapur.
Minm. -	114.72 kV	13.01.2020 06:45 Hrs	Bolangir New
	< 120 KV		Lapanga, Bolangir, Bolangir New.

B. Frequency Profile

Date & Time

Maxm. -	50.28 Hz	01.01.20 17:03 Hrs.
Minm. -	49.69 Hz	06.01.20 14:24 Hrs.
Average -	50.00 Hz	
% of time the freq. is within 49.9 Hz to 50.05 Hz (IEGC band)	-	73.28%
% of time the freq. is > 50.05 HZ	-	20.62%
% of time the freq. is ≤49.9 HZ	-	6.11%
% of time the freq. is < 48.5 HZ	-	0.00%

C. Demand Profile

Peak System Demand	3618.61 MW	At 19:00 Hrs on 25.01.20
Minimum System Demand	1935.72 MW	At 03:00 Hrs on 04.01.20
Average System Demand	2786.90MW	

D. Major events

Sl. No	Date	Details of event
1	22.01.2020	At 13:36 Hrs, 2nd 40 MVA, 132/33 kV Power Transformer charged at GIS, Khuntuni.
1	23.01.2020	At 00:37 Hrs, 160 MVA, 220/132 kV Auto Transformer -II at Jayapatna S/S charged.
1	27.01.2020	At 17:55 Hrs, 132 kV Bolangir (New) -Sonepur feeder charged through "T"

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 %, Avalability 80%)	160.2 (Auxilliary 10.5 %, Avalability 80%)
	TTPS STAGE - II	2x110 = 220	146.85 (Auxilliary 10.5 %, Avalability 80%)	146.85 (Auxilliary 10.5 %, Avalability 80%)
	TOTAL TTPS	460		
3	O.P.G.C.			
	IB TPS	2x210 = 420	342.09 (Auxilliary 9.5 %, Avalability 90%)	342.09 (Auxilliary 9.5 %, Avalability 90%)
	IB TPS-Stage-II	2x660 = 1320	(75) 833.085 (Share 75%, Auxilliary 6.5 %, Avalability 90%)	833.085 (Share 75%, Auxilliary 6.5 %, Avalability 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		
	TOTAL ISGS			1304.49		

GRAND TOTAL, (A) + (B) + (C) = 5567.99

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.

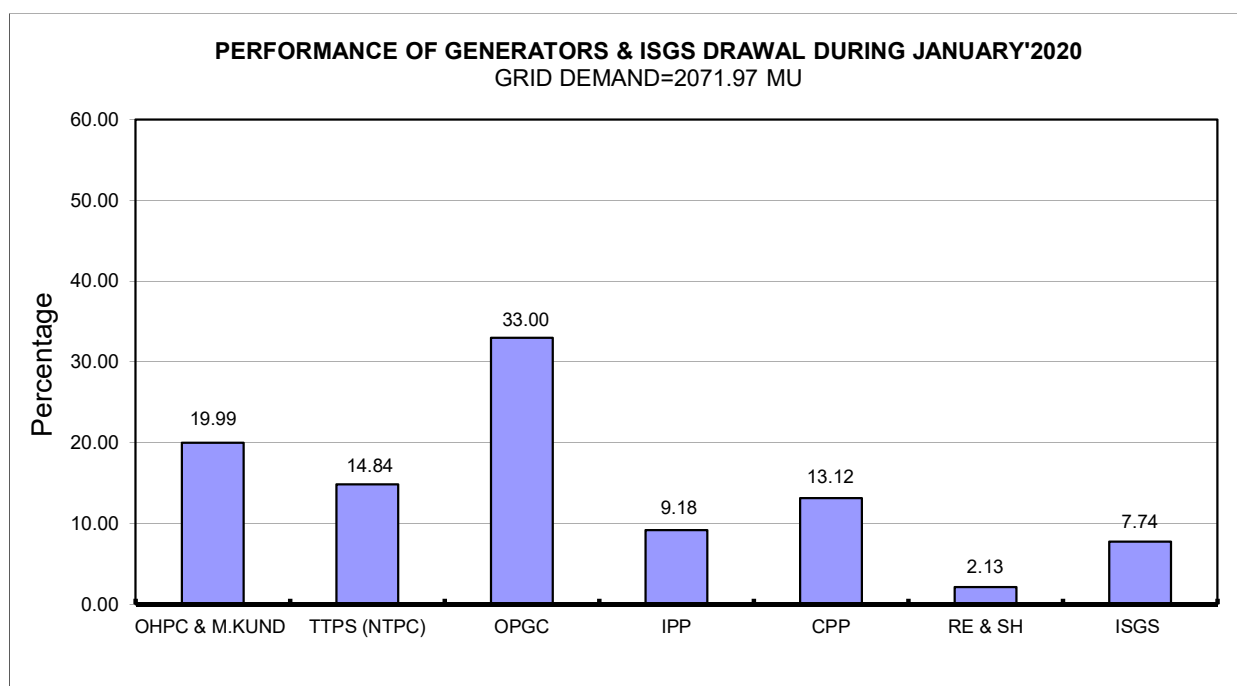
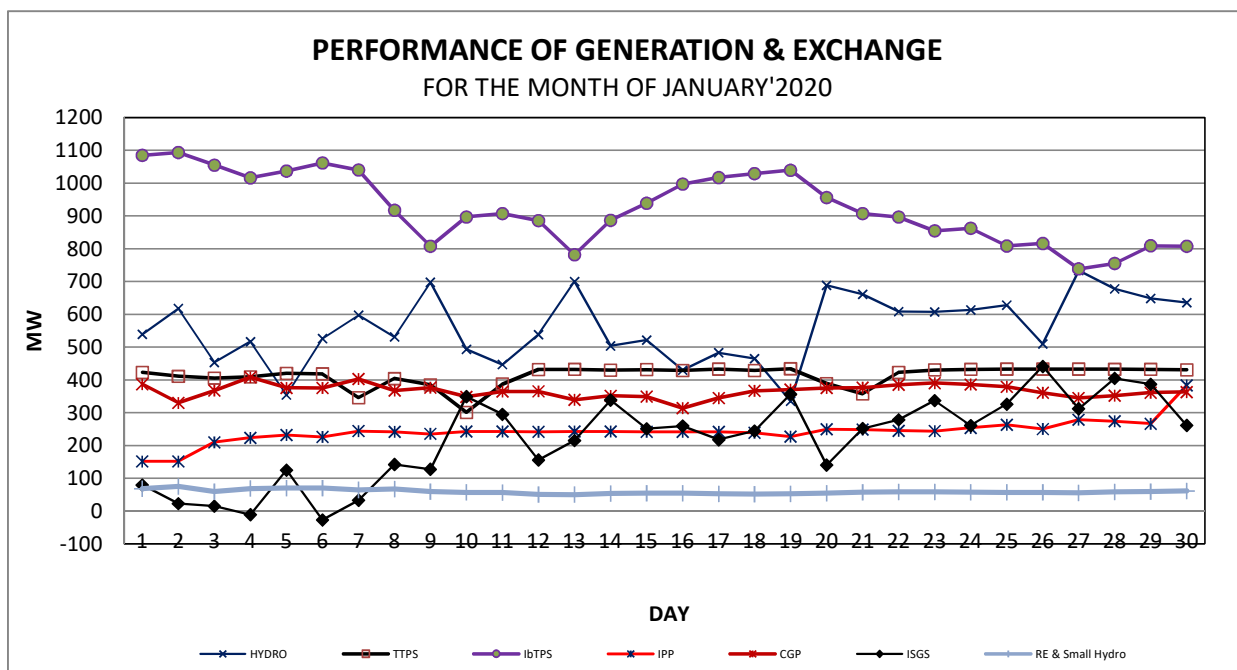
CAPACITY OF IPP, CPP, SMALL HYDRO & RENEWABLE

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		

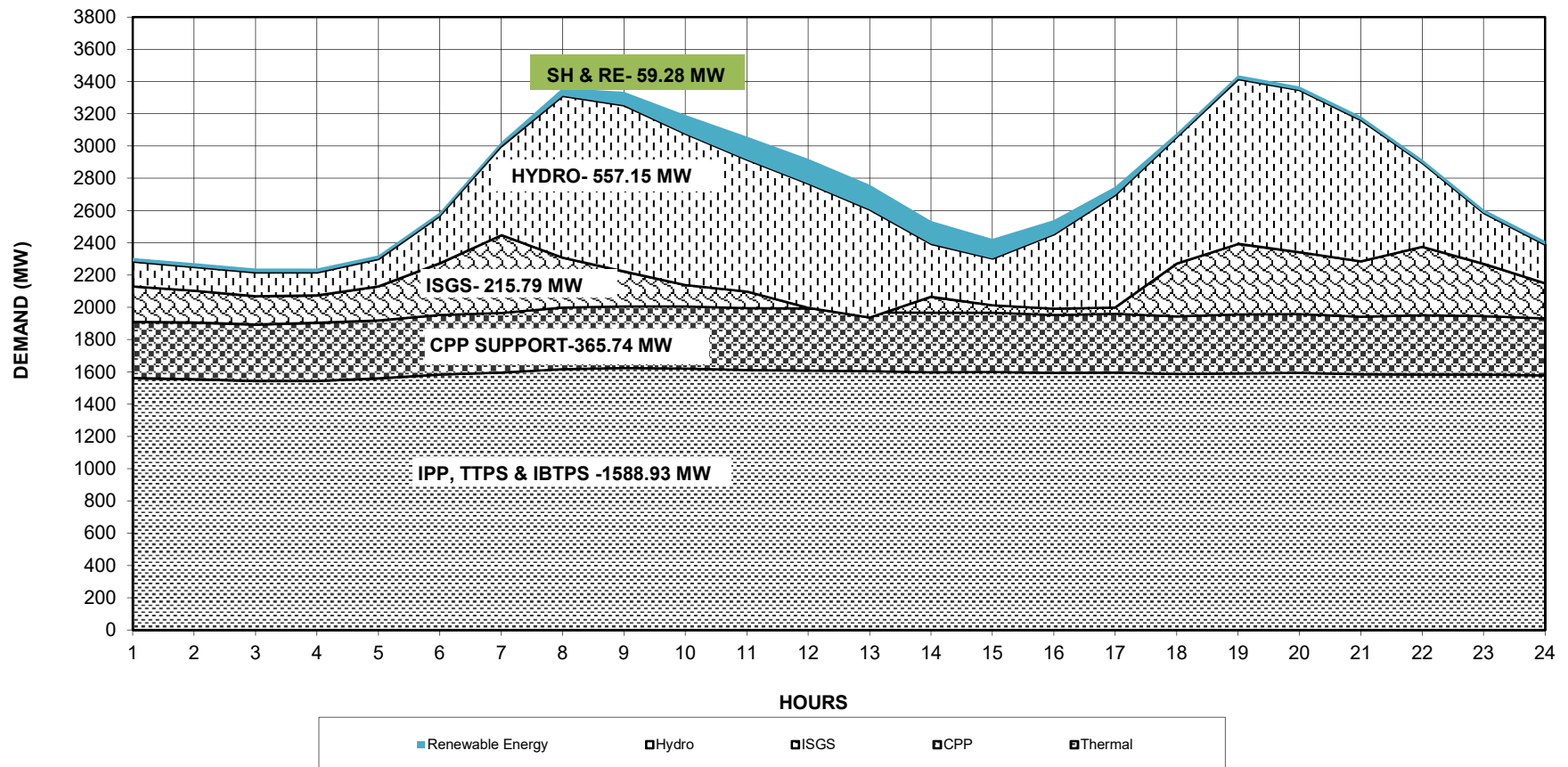
RENEWABLE PROJECTS

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 URGU 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)		18776.49			

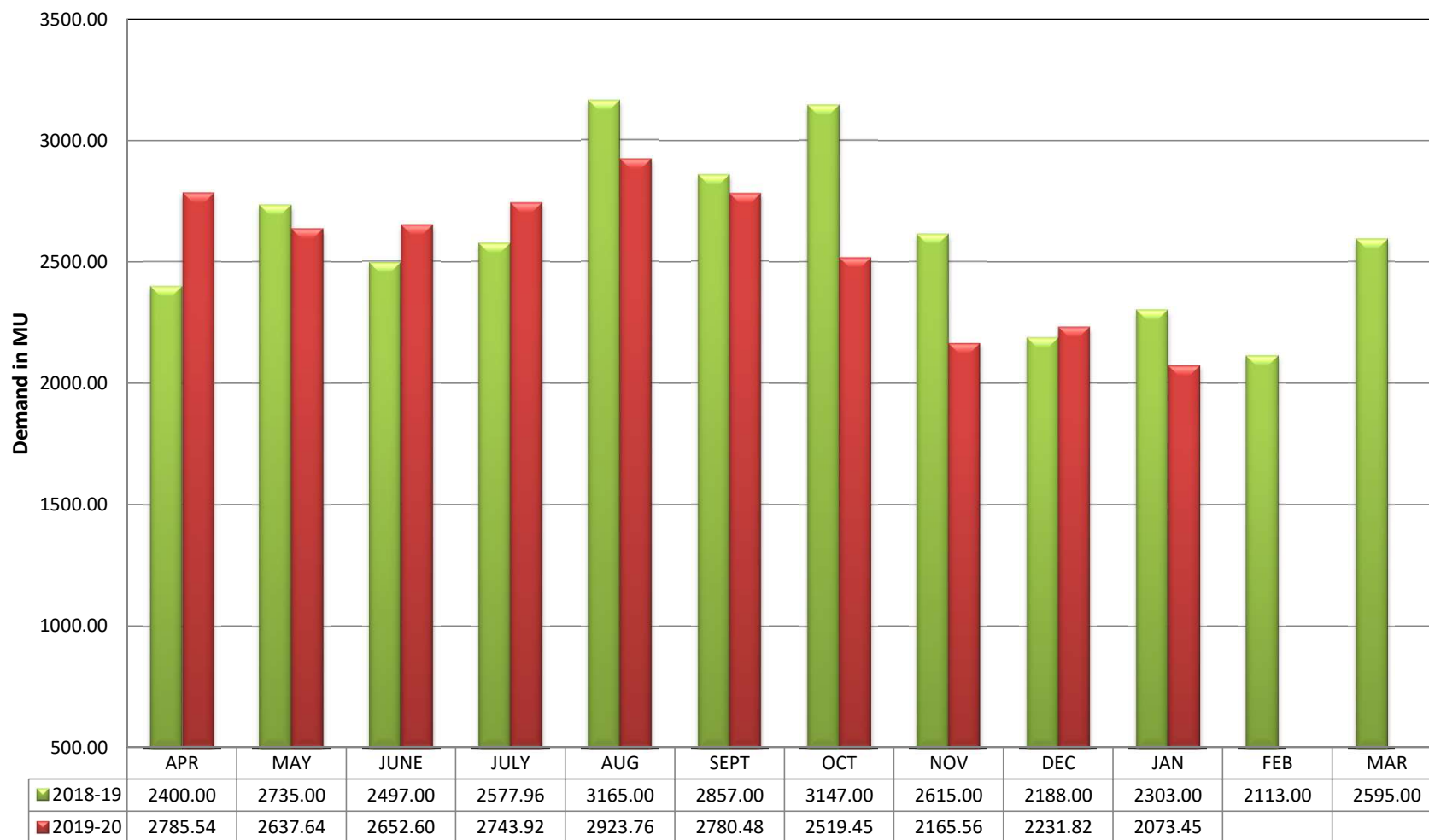


AVERAGE GRID DEMAND [HOURLY] FOR THE MONTH OF JANUARY'2020

Average Demand=2786.90 MW



COMPARISION SYSTEM DEMAND WITH PREVIOUS FINANCIAL YEAR



MONTHLY GENERATION & DEMAND REPORT FOR THE STATE OF ODISHA IN THE MONTH OF JANUARY- 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	11.642	7.395	7.932	0.000	0.000	0.000	0.000	26.969	36.249	0.140	114.00	25	20.00
2	Chipilima	2.139	12.551	1.577	-	-	-	-	-	16.267	21.864	0.079	44.54	10	15.00
4	Balimela	0.000	0.000	22.263	14.490	25.495	14.799	12.682	14.550	104.278	140.159	1.410	363.08	15	18.00
5	Rengali	3.3072	6.184	4.605	8.0286	8.485	-	-	-	30.610	41.142	0.922	250.00	7	9.00
6	Upper Kolab	19.588	20.928	4.438	26.637	-	-	-	-	71.591	96.224	0.326	235.83	29	11.00
7	Upper Indravati	40.137	17.937	36.343	46.490	-	-	-	-	140.907	189.390	1.612	567.33	25	19.00
8	Total Hydro (OHPC)	-	-	-	-	-	-	-	-	390.621	525.028				
9	Machhakund (Orissa drawal)	-	-	-	-	-	-	-	-	27.158	36.503		51.62	15	5.00
10	Total Hydro	-	-	-	-	-	-	-	-	417.779	561.531		1403.66	27	19.00
11	TTPS-I	44.924	44.691	45.436	45.478	-	-	-	-	180.529	242.647		227.63	12	6.00
12	TTPS-II	74.243	78.678	-	-	-	-	-	-	152.921	205.539		213.15	19	6.00
13	Total TTPS	-	-	-	-	-	-	-	-	333.450	448.185	35.388	437.79	19	10.00
14	IBTPS	99.91	107.198	-	-	-	-	-	-	207.109	278.372	25.403			
15	IBTPS-II	-	-	279.046	273.356	-	-	-	-	552.402	742.476	33.653	1118.48	2.00	22.00
16	Total IBTPS	-	-	-	-	-	-	-	-	759.511	1020.848				
17	IPPs & CGPs Support	-	-	-	-	-	-	-	-	475.781	639.490				
18	Total Thermal & IPPs & CGP	-	-	-	-	-	-	-	-	1568.742	2108.524		2364.69	31	0.00
19	Injection by Renewable projects	27.92565	-	-	-	-	-	-	-	27.926	37.534				
20	Total self generation	-	-	-	-	-	-	-	-	2014.447	2707.590	98.934	3478.84	6	19.00

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 :-

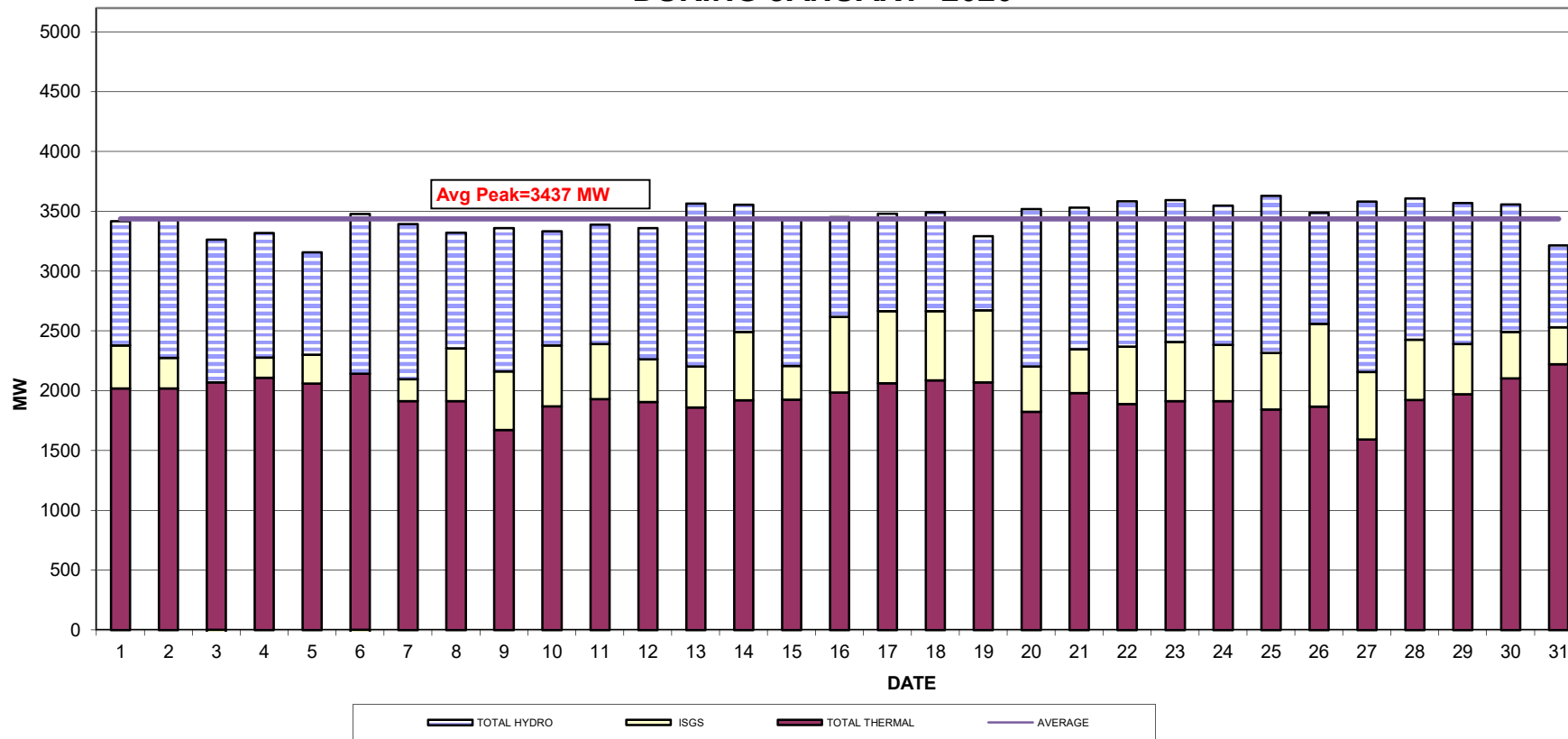
(C) EXCHANGE OF ENERGY WITH CENTRAL SECTOR

SL No.	Name of IPP / CGPs	Injection in (MU)	Average (MW)	Maximum Injection (MW)	DATE	TIME (Hr.)	Name of the Tie line	Net		Maximum Import (MW)	DATE	TIME	Maximum Export (MW)	DATE	TIME
								MU	MW						
1	Aarti Steel Ltd. Ghanthikhal	5.232	7.032	22.14	22	20.00	132KV JODA-KENDUPOSI	-14.70	-19.75				-27.06	1	20.00
2	ACC	0.000	0.000				132KV KALABADIA-BANGIRIPOSI	25.05	33.68	53.45	28	8.00	-45.00	9	10.00
3	Action Ispat	0.000	0.000				132KV KALABADIA-BARIPADA	15.41	20.71	34.99	7	19.00	-0.01	19	12.00
4	Aryan Ispat,	0.940	1.263				132 KV BHOGRAI-KUCHEI	5.22	7.02	16.03	30	20.00	-1.24	3	13.00
5	BPPL	83.114	28.501	122.45	10	3.00	132 KV JALSWAR-KUCHEI	9.50	12.76	29.73	22	10.00			
6	BPSL, Jharsuguda	21.205	28.501	118.84	4	14.00	220KV JODA-JAMSHEDPUR	-50.80	-68.28				-138.31	11	21.00
7	BSL, Meramunda	17.920	24.086	82.64	1	6.00	220KV JODA-RAMCHANDRAPUR	48.30	64.92	99.21	9	5.00	28.70	15	23.00
8	GMR Kamalanga Energy Ltd. (IPP)	178.303	239.655				220KV RENGALI SV- RENGALI P.G-I	8.32	11.19	71.14	10	9.00	-31.02	3	6.00
9	HINDALCO, Hirakud	48.233	64.829				220KV RENGALI SV- RENGALI P.G-II	10.72	14.40	92.29	10	9.00	-38.75	4	4.00
10	IFFCO, Paradeep	0.0000	0.000				220KV JAYANAGAR JEYPORE PG-I	-56.42	-75.83				-186.47	13	17.00
11	IMFA, Choudwar	26.490	35.605	50.43	4	19.00	220KV JAYANAGAR JEYPORE PG-II	-59.85	-80.45	-6.39	17	1.00	-193.04	13	17.00
12	JINDAL, New Duburi	5.719	7.687	27.48	31	23.00	220KV RENGALI P.H-KANIHA	3.52	4.73	48.38	15	15.00	-86.93	9	24.00
13	JSPCL, Angul	32.313	43.432	83.27	28	9.00	220KV TTPS-KANIHA	19.44	26.13	144.65	10	9.00	-50.23	4	4.00
14	Mahavir Ferro Alloys	0.100	0.135				220KV MERAMUNDALI-KANIHA-I	10.19	13.70	59.84	29	20.00	-15.57	19	2.00
15	Mathan Ispat Ltd.	0.000	0.000				220KV MERAMUNDALI-KANIHA-II	9.89	13.29	59.56	29	20.00	-15.84	19	2.00
16	Meenakshi Power Ltd. (SH)	0.010	0.014				220KV TARAKARA-BISRA-I & II	118.72	159.57	257.94	28	18.00			
17	MSP, Jharsuguda	0.000	0.000				220 KV KALABADIA-BALASORE-III	111.65	150.06	286.54	14	20.00			
18	NALCO, Angul	8.33	11.201	43.57	7	8.00	220KV KATAPALI-BOLANGIR(PG)	-39.06	-52.51	9.55	27	13.00	-96.34	3	7.00
19	Narbheram	0.050	0.068				220KV SADEIPALI - BOLANGIR(PG)	71.06	95.52	223.66	28	19.00	-33.77	7	14.00
20	NBVL, Kharaq Prasad	8.733	11.738	54.19	18	12.00	220KV BUDHIPADAR-KORBA-I	-36.95	-49.67	10.48	9	1.00	-108.06	12	9.00
21	NINL, Duburi	1.236	1.661				220KV BUDHIPADAR-KORBA-II	42.86	57.60	118.39	9	1.00	-108.06	12	9.00
22	OCL	1.437	1.932				220KV BUDHIPADAR-KORBA-III	38.39	51.60	107.69	9	1.00	-10.93	29	10.00
23	OPCL, Samal (SH)	6.479	8.708				220KV ATRI-PANDIVIL	118.48	159.25	239.61	6	7.00	-10.60	29	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 GR-KEONJHAR PG-I	0.01	0.01	0.46	31	20.00			
26	Shree Ganesh	0.500	0.672				220KV KEONJHAR - 220KV KEONJHAR GR-KEONJHAR PG- II	0.01	0.01	0.44	31	20.00			
27	Shyam Metallics	0.083	0.112				400KV INDRAVATI P.H-P.G	-69.69	-93.67	31.35	15	18.00	-261.29	25	19.00
28	SMC Power	0.081	0.110				400KV MERAMUNDALI-KANIHA	98.76	132.74	692.68	12	9.00	-354.33	10	4.00
29	TSIL, Joda	11.383	15.300				400KV MERAMUNDALI-ANGUL-I&II	80.43	108.11	498.19	1	22.00	-471.24	13	15.00
31	Vedanta Ltd. (IPP-Unit-2)	11.267	15.144				400KV MENDHASAL - PANDIABIL-I &II	-22.31	-29.99	179.92	7	14.00	-118.24	15	20.00
31	Vedanta, Jharsuguda	1.901	2.555				400KV DUBURI - PANDIABIL	-59.35	-79.77				-247.53	7	18.00
32	Vedanta, Lanjigarh	0.887	1.193				400KV DUBURI - BARIPADA	-2.74	-3.69	96.90	19	8.00	-164.33	14	20.00
33	VISA Steel, New-Duburi	1.241	1.668	5.06	27	6.00	400KV VEDANTA-JHARSUGUDA Ckt-I	-28.73	-38.62	64.67	28	4.00	-162.20	31	16.00
34	Yazdani Steel & Power Ltd., J.J Rd	0.000	0.000				400KV VEDANTA-JHARSUGUDA Ckt-II	-28.80	-38.71	64.70	28	4.00	-162.55	31	16.00
35	Vedanta Ltd. (3*500)	2.590	3.461				400KV OPGC-JHARS PG-I	-10.17	-145.39	6.98	28	4.00	-217.48	6	15.00
	Total support from CPPs	475.781	639.490				400KV OPGC-JHARS PG- II	-109.14	-146.70	6.89	28	4.00	-217.19	6	15.00
							Net ISGS	159.21	214.00	730.04	28	23.00			

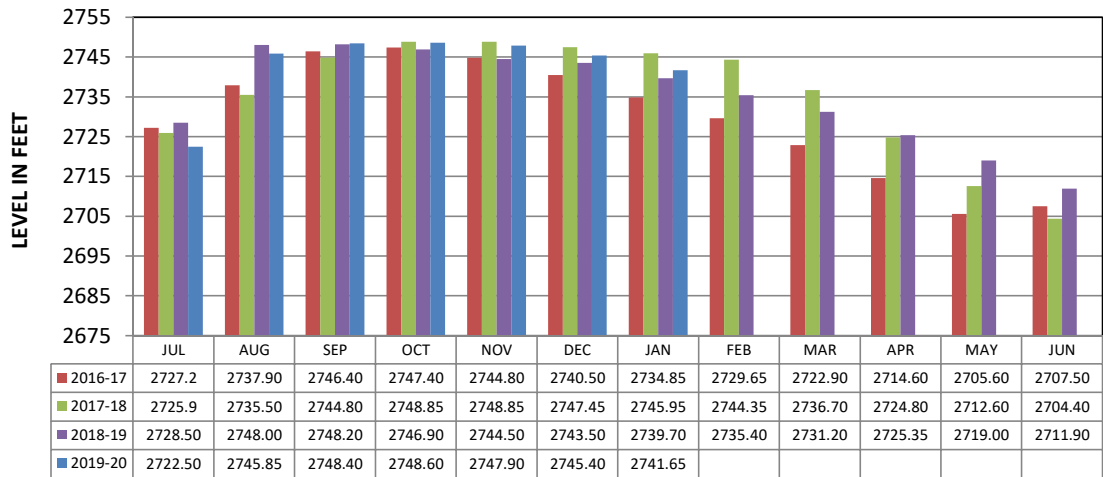
ABSTRACT OF SYSTEM DEMAND

Particulars	Energy MU	Average MW	Peak MW	DATE	TIME
Total gross generation(Including CPP+IPP)	2014.447	2707.590	3478.84	6	19.00
Power Station Auxiliary consumption	98.934	132.976	13.67	27	19.00
Total net generation(Including CPP+IPP)	1915.513	2574.614	3466.18	6	19.00
Net ISGS	159.213	213.996	730.04	28	23.00
System Demand	2074.726	2788.610	3618.61	25	19.00
Trading					
Gross Power Requirement (demand + Trading)					
Average of Peak Demand (MW)		3452.451			
Average of Minimum Demand (MW)		2217.651			

DAILY GENERATION SHARING DURING PEAK DEMAND DURING JANUARY- 2020

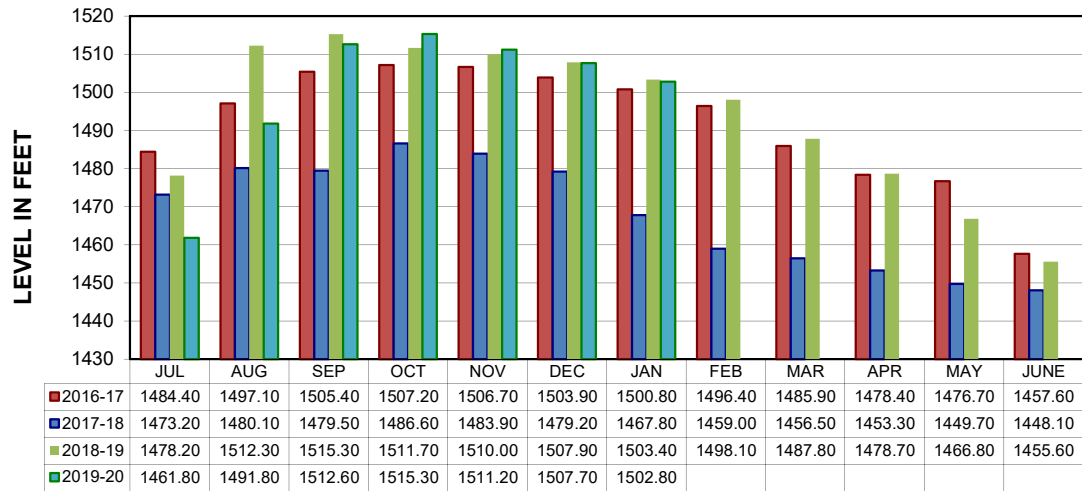


JOLAPUT RESERVOIR LEVEL



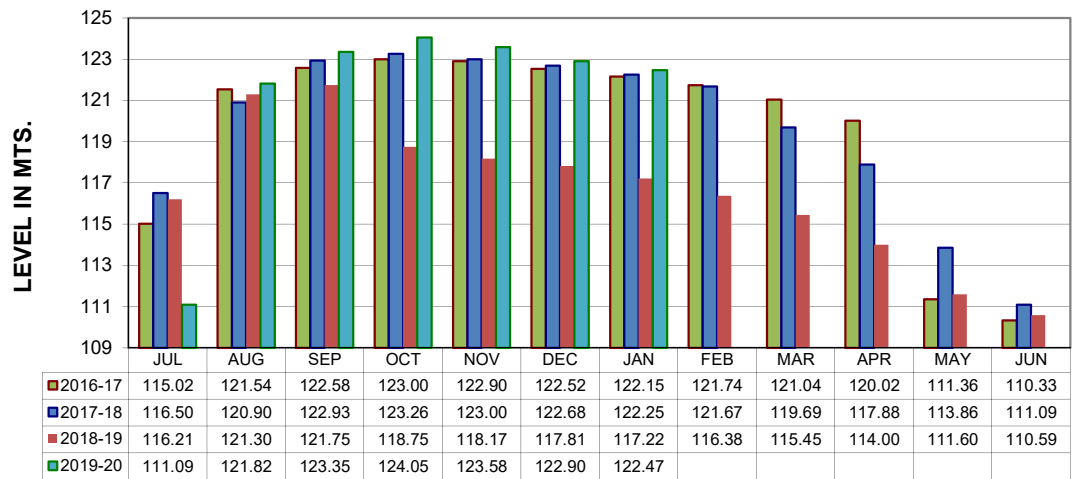
MONTH (End)

BALIMELA RESERVOIR LEVEL



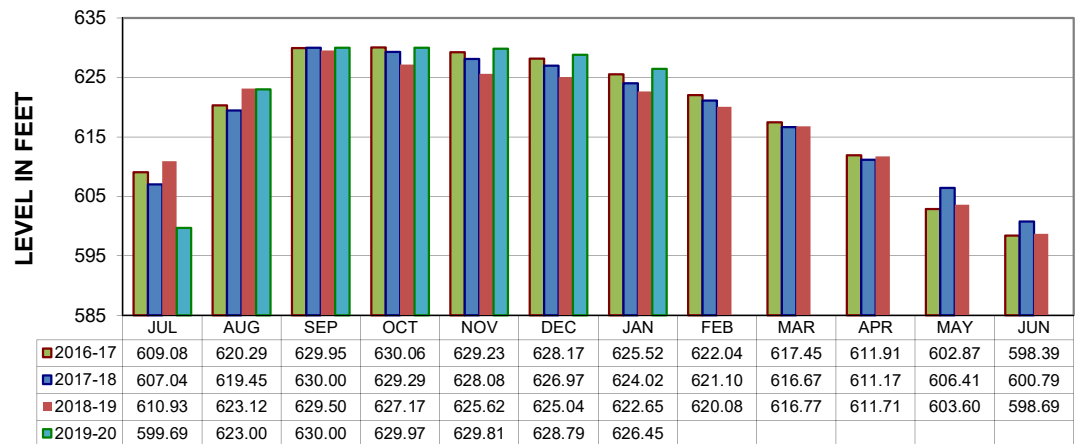
MONTH (End)

RENGALI RESERVOIR LEVEL



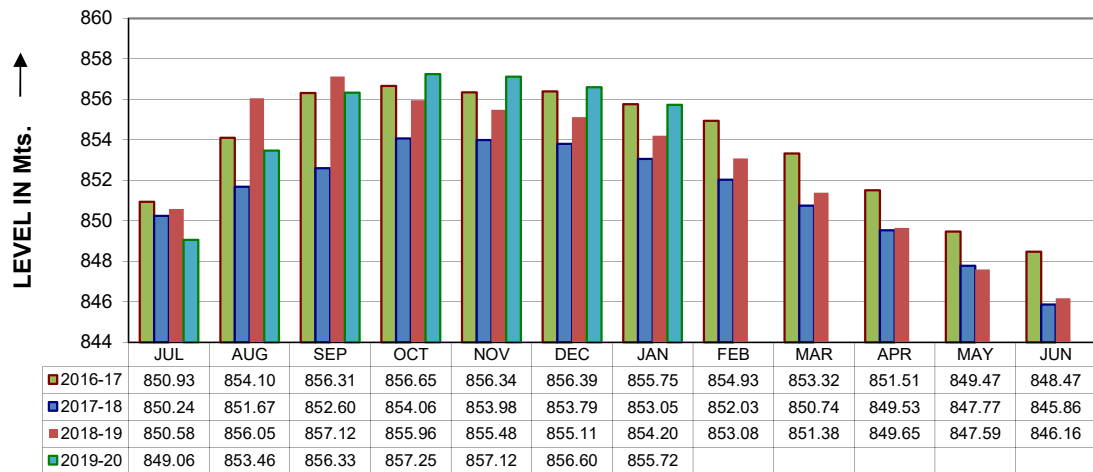
MONTH (End)

HIRAKUD RESERVOIR LEVEL



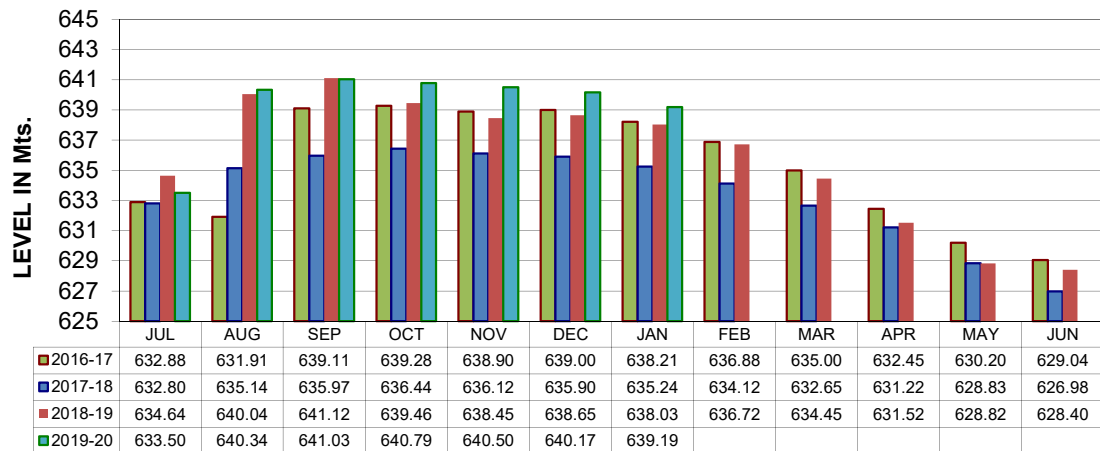
MONTH (End)

U.KOLAB RESERVOIR LEVEL



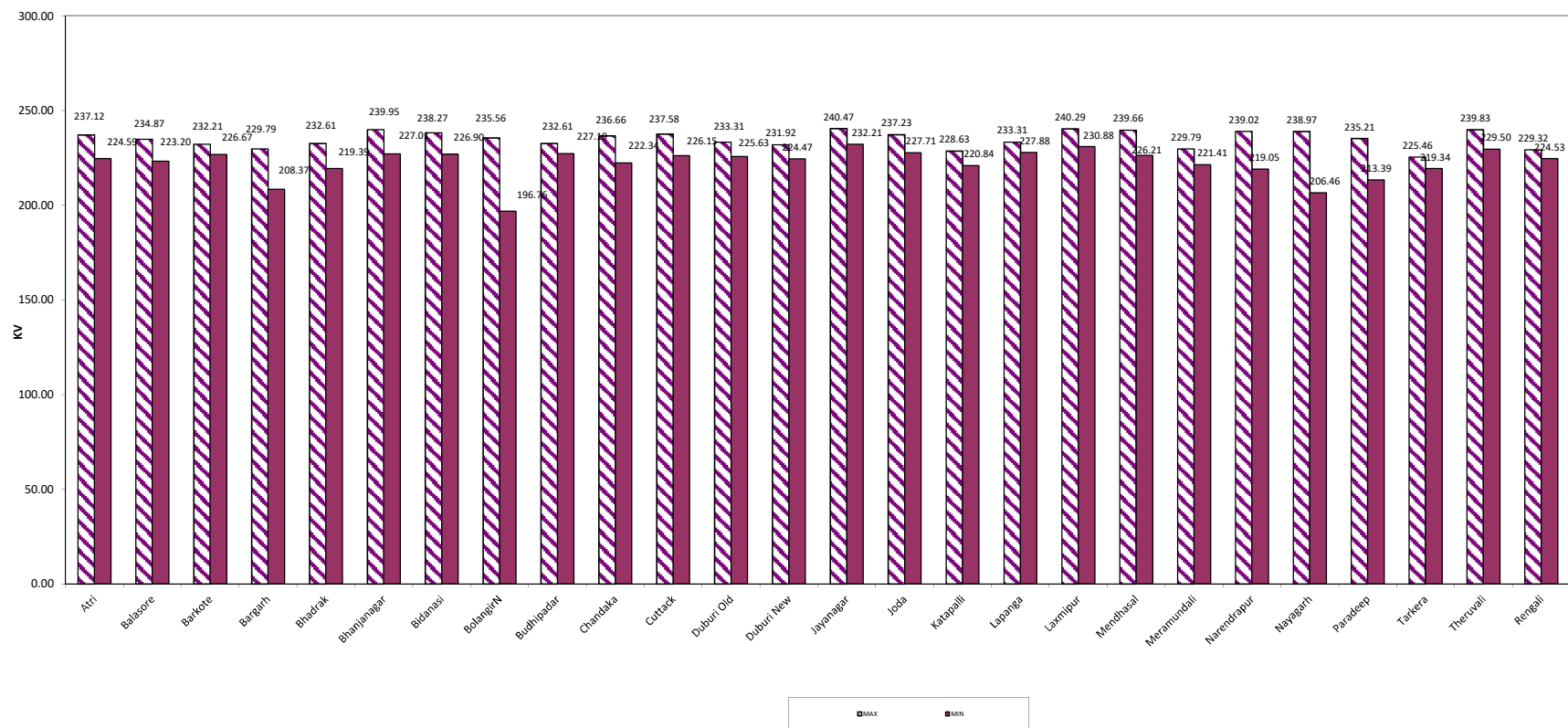
MONTH (End)

INDRAVATI RESERVOIR LEVEL



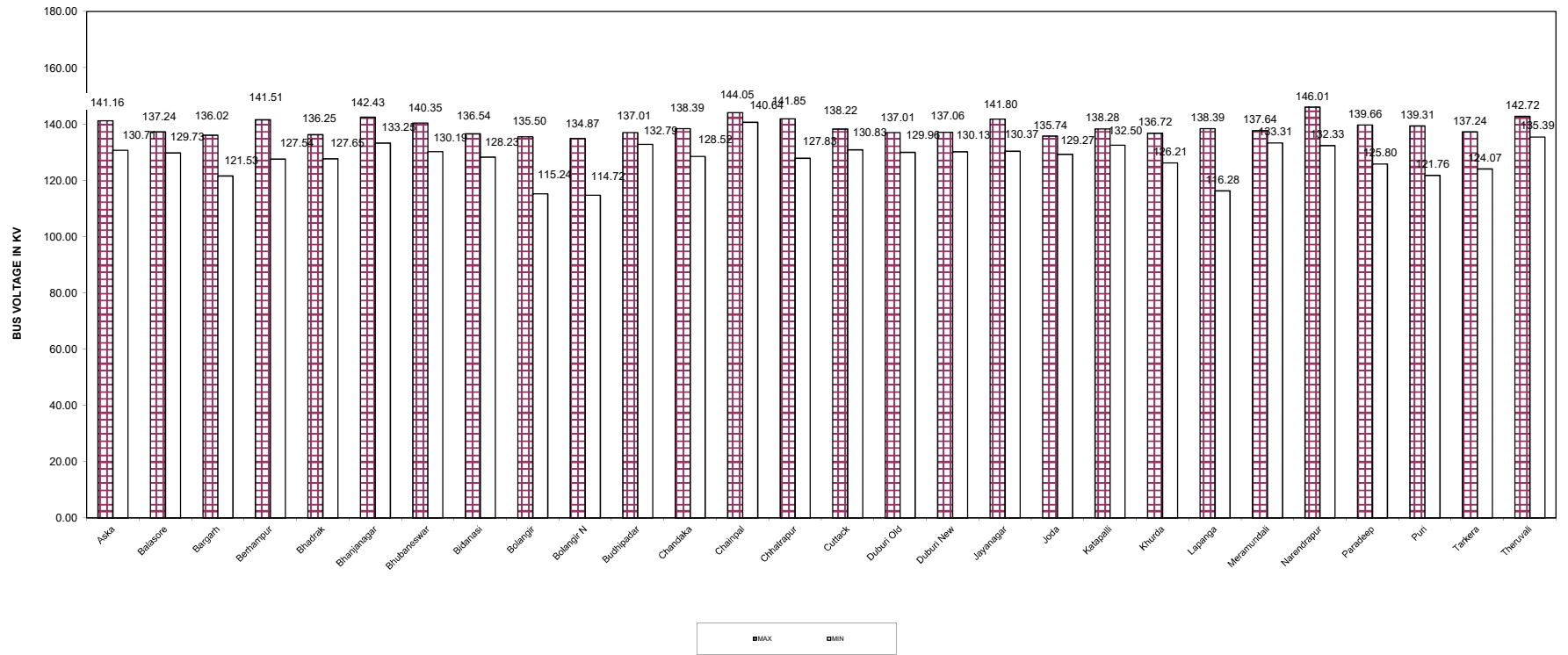
MONTH (End)

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

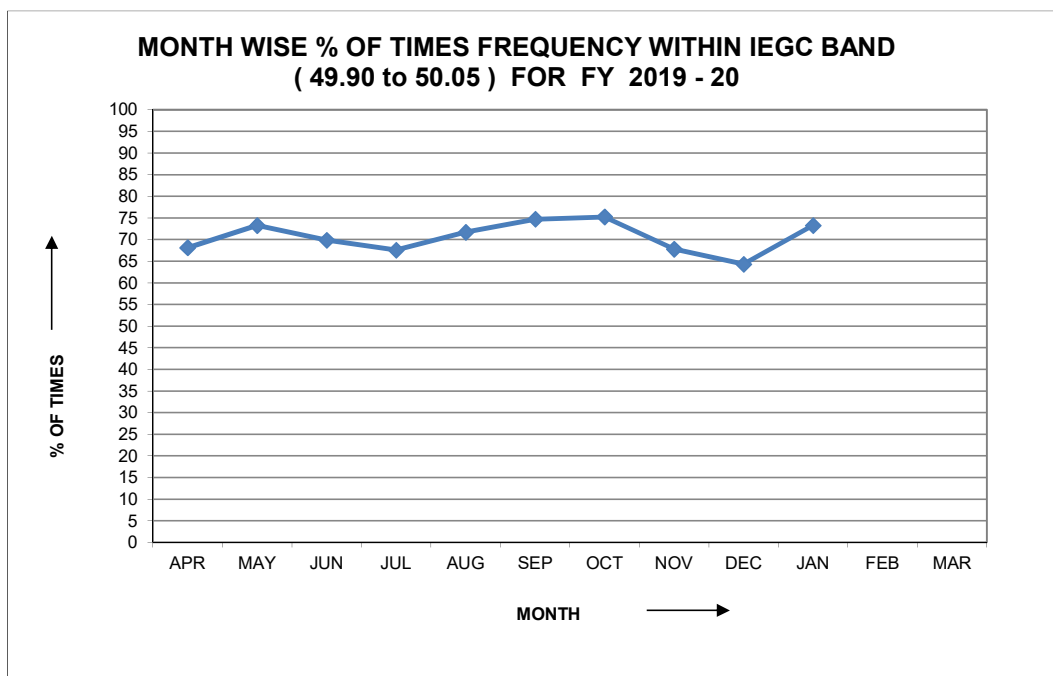


STATION	ATRI		BALASORE		BARKOTE		BARGARH(N)		BHADRAK		BHANJANAGAR		BIDANASI		BOLANGIR		BUDHPADAR		CHANDAKA		CUTTACK		DUBURI		DUBURI (N)		JAYANAGAR		JODA		KATAPALI		LAPANGA		LAXMIPUR		MENDHASAL		MERAMUNDAL		NARENDRAPUR		NAYAGARH		PARADEEP		TARKERA		THERUVALI	
	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	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.		
MAXM.	17	02:30	16	01:00	22	02:30	22	00:00	1	03:15	17	02:30	1	04:15	22	16:30	12	04:30	17	02:30	1	04:15	10	01:30	19	03:45	21	03:30	9	03:00	3	03:30	12	04:00	21	03:30	17	02:30	22	02:45	17	02:30	17	02:30	9	02:30	12	14:00	17	01:45
MINM.	7	08:30	10	18:00	28	07:45	13	06:30	10	18:00	8	09:15	16	09:30	13	06:45	28	07:30	10	08:45	16	09:30	12	18:30	12	18:15	15	08:15	11	18:15	6	09:15	28	07:30	10	08:00	11	09:00	10	18:15	15	08:30	4	17:30	7	09:15	4	08:30	10	08:00

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



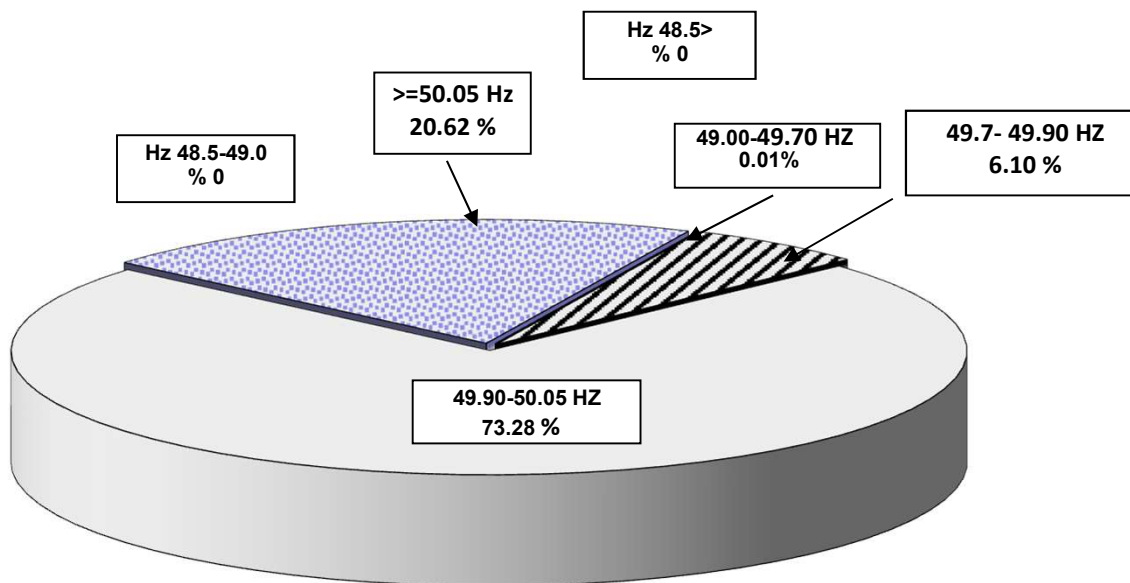
STN	CHATRAPUR	BALASORE	CHAINPAL	BARGARH (N)	BHADRAK	BHANUNAGAR	BIDANASI	BOLANGIR	BUDHIPADAR	CHANDAKA	CUTTACK	DUBURI	KHURDA	JAYANAGAR	JODA	KATAPALI	LAPANGA	MANCHESWAR	PURI	MERAMUNDALI	NARENDRAPUR	BERHAMPUR	PARADEEP	TARKERA	THERUVALI			
	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.		
MAX	4	4:15	16	01:00	22	16:30	17	02:30	1	03:15	21	03:30	17	02:45	1	04:15	3	03:30	3	2:00	17	02:30	22	02:15	17	02:30	9	02:45
MIN	15	8:15	10	18:00	24	07:45	28	08:15	10	18:00	8	09:15	10	08:45	28	08:15	13	06:45	13	06:45	28	7:30	10	08:45	28	08:15	4	12:15



**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			50.01
	% 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			70.58
	% 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			23.13

MONTHLY FREQUENCY PROFILE FOR JANUARY 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	4	0	0	0	0	0	0	0	0	0
49.7-49.9	88	146	137	98	78	181	150	89	33	64	68	69	82	88	28
49.9-50.05	948	959	1059	1104	1119	1043	1083	1053	1036	1033	982	1118	1050	1097	1064
>50.05	404	335	244	238	243	212	207	298	371	343	390	253	308	255	348
>=50.1Hz	86	71	46	44	49	38	24	58	34	95	80	57	56	33	60

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	0	0	0	0	0	0	0	1	0	0	0	0	0	0
49.7-49.90	121	137	36	60	82	54	4	77	106	138	80	110	100	77	82	58	45
49.9-50.05	997	1085	1091	1042	1066	978	959	1021	1125	1071	1079	1022	1090	1072	1147	1117	545
>50.05	322	218	313	338	292	408	477	342	209	231	280	308	250	291	211	265	153
>=50.10Hz	59	30	67	66	52	61	85	59	39	17	67	61	39	21	26	52	27

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

Sl.No	Name of Sub Station	Name of Feeder	Installed Capacity	SMD	Average Drawal MW	MAX DEMAND	
						MW	Date & Time
1	Angul	MCL Feeder-1&2	132 kV	22.5919	20.1762	26.1433	12-Jan-2020 7:30
		Angul	2x40+1x20=100	20.6588	16.2970	25.2199	17-Jan-2020 10:00
2	Angul PG	PGCIL Stn. Tertiary		0.1063	0.1181	0.1063	01-Jan-2020 0:00
		Arati Steel	132 kV	0.0000	0.0692	7.4607	30-Jan-2020 1:30
3	Angul	Angul	2x40+1x20=100	5.7692	5.6444	23.1500	21-Jan-2020 15:15
4	Badagada	Badagada	2x63=126	22.8083	18.4006	41.5903	28-Jan-2020 10:30
5	Balugaon	SOLARI Traction	132kV	4.9426	6.4051	13.5814	12-Jan-2020 3:45
		Balugaon	1x40+1x20+1x12.5=72	22.0880	15.3377	31.6004	28-Jan-2020 7:45
6	Banki	Banki	2x20=40	6.4036	4.9948	11.6567	08-Jan-2020 10:45
7	Bhubaneswar	Bhubaneswar	3x63=189	53.9022	43.4254	59.2934	17-Jan-2020 11:00
8	Bidanasi	Bidanasi	2x63+1x40=166	39.9199	32.3651	47.3305	29-Jan-2020 18:00
9	Boinda	Boinda Traction	132 kV	0.1440	1.5886	11.1193	14-Jan-2020 10:15
		Boinda	1x20+2x12.5=45	13.4316	9.6481	17.5113	17-Jan-2020 9:45
10	BPPL S/W	BPPL Fdr-I&II	132 kV	0.0000	0.0000	0.0000	01-Jan-2020 0:00
11	Chainpal	FCI Feeder	132 kV	0.5904	0.3819	0.6131	07-Jan-2020 9:15
		Talcher Rd. Trac.	132 kV	4.0320	4.9222	12.3371	18-Jan-2020 15:15
		Chainpal	2x40+1x20=100	31.4608	25.8224	40.4270	18-Jan-2020 11:00
12	Chandaka	Chandaka	3x63=189	55.5717	49.2831	76.1244	22-Jan-2020 12:00
13	Chandpur	Chandpur	2x12.5=25	5.6707	5.3754	8.8772	21-Jan-2020 19:15
14	Choudwar	Choudwar Traction	132 kV	11.0295	7.7522	15.4108	10-Jan-2020 17:30
		Choudwar	3x40=120	41.9875	34.9350	51.7993	16-Jan-2020 10:15
15	Cuttack	Cuttack	3x40=120	22.6717	19.4382	28.9841	09-Jan-2020 9:30
16	Dhenkanal	Joranda Trac.	132 kV	5.3472	6.6997	15.1940	05-Jan-2020 8:30
		Narveram CGP Fdr	33 kV	0.4244	0.0676	2.3474	15-Jan-2020 7:45
		Dhenkanal	3x40=120	30.7764	24.0157	35.1276	07-Jan-2020 8:00
17	Grid Steel Alloy S/W	GSAL Feeder	132kV	0.0000	0.0000	0.0000	01-Jan-2020 0:00
18	Hind Metalics	MGM Feeder	132kV	0.0000	0.1001	1.7191	05-Jan-2020 20:15
		NBVL Fdr-1&2	132kV	0.0000	0.0000	0.0113	05-Jan-2020 15:45
		SGEL Feeder	132kV	0.0000	0.0508	1.7712	29-Jan-2020 2:15
		Meramundali Trac.	132 kV	4.4362	5.0483	19.7729	27-Jan-2020 11:45
19	Infocity-II GIS	Infocity-II GIS (220/33)	2x40=80	10.5915	9.0877	17.6701	24-Jan-2020 12:30
20	Jagatsinghpur	Gorakhnatn Trac.	132 kV	5.4257	7.0847	12.9835	21-Jan-2020 16:45
		Jagatsinghpur	1x40+2x20=80	21.6956	15.4262	22.6041	12-Jan-2020 18:45
21	Kalarangi	Kalarangi	1x20+2x12.5=45	10.4986	8.0526	11.9864	06-Jan-2020 18:00
22	Kamakhyanagar	Kamakhyanagar	1x20+2x12.5=45	13.2208	10.8692	14.5099	14-Jan-2020 8:00
23	Kendrapada	Kendrapada	2x40+1x12.5=92.5	16.9293	12.8694	21.1038	29-Jan-2020 11:45
24	Khairiakata	Khairiakata	2x40=80	5.0699	3.1827	5.9281	09-Jan-2020 11:30
25	Khuntuni GIS	Khuntuni GIS	2x40=80	2.8979	2.5903	7.1511	04-Jan-2020 19:00
26	Khurda	Kainadar Trac.	132 kV	13.3824	8.8176	18.4215	28-Jan-2020 22:45
		Khurda	4x40=160	51.6729	39.3514	60.1045	17-Jan-2020 10:00
27	Konark	Konark	2x20=40	4.0287	2.7885	5.4713	14-Jan-2020 12:30
28	Mania	Mania	1x20+1x12.5=32.5	4.1534	2.0967	6.2915	11-Jan-2020 8:00
29	Marshaghai	Marshaghai	2x20=40	9.2210	6.0866	9.9491	17-Jan-2020 18:15
30	Mendhasal	Mendhasal(220/33)	2x20=40	2.6030	0.8327	2.9646	08-Jan-2020 11:00
31	Meramundali	BSL-TATA Fdr-1&2	220 kV	61.4160	15.9991	72.1313	02-Jan-2020 18:30
		BRG Feeder	132kV	7.9602	6.3706	22.0306	02-Jan-2020 10:00
		JSPL Feeder-1&2	400 kV	0.7313	0.4127	32.1343	28-Jan-2020 23:15
		RUNGTA Feeder	132kV	0.4610	0.1970	0.5315	15-Jan-2020 23:15
32	Narsinghpur	Narsinghpur(220/33)	1x40=40	1.5684	1.1885	2.8138	03-Jan-2020 7:45
33	Navagarh	Navagarh (220/33)	2x40+1x20=100	28.8083	22.0849	30.9660	17-Jan-2020 7:45
34	Nimapara	Nimapara	3x40=120	31.1628	23.6514	39.5059	13-Jan-2020 10:45
35	Nuapatana	Nuapatana	1x40+1x20+1x12.5=72	21.9019	16.5322	30.1706	15-Jan-2020 11:15
36	Olaver	Olaver	2x12.5=25	3.5282	2.4558	4.9024	06-Jan-2020 9:00
37	Pandiabil PG	PGCIL Stn. Tertiary		0.0495	0.0550	0.0495	01-Jan-2020 0:00
38	Paradeep	Essar Steel Fdr-1&2	220kV	17.6738	0.4456	24.6375	07-Jan-2020 19:45
		IFFCO Fdr-1&2	132kV	0.0720	1.5871	14.1182	02-Jan-2020 3:45
		IOCL Feeder	220kV	0.8362	0.3879	1.0679	04-Jan-2020 8:45
		PPL Fdr-1&2	132kV	5.3360	6.2512	25.1054	28-Jan-2020 3:45
		PPT Fdr-1&2	132kV	11.8069	9.4693	14.9431	30-Jan-2020 20:45
		Paradeep	3x20=60	16.5569	11.6226	22.4275	03-Jan-2020 8:15
39	Pattamundai	Pattamundai	2x20+1x12.5=52.5	14.5796	9.9152	15.4139	11-Jan-2020 19:45
40	Phulnakhara	Phulnakhara	1x40+2x20=80	16.9024	13.4397	22.1717	05-Jan-2020 7:45
41	Puri	Puri	3x40=120	18.1194	8.7242	29.2769	29-Jan-2020 18:15
42	Ranasinghpur	Ranasinghpur	3x63=189	31.5283	31.6852	47.1270	18-Jan-2020 10:15
43	Rengali PG	PGCIL Stn. Tertiary		0.0366	0.0406	0.0366	01-Jan-2020 0:00
44	Rengali S/W	Rengali S/W (220/33)	2x20=40	10.7529	8.3456	16.0070	17-Jan-2020 12:00
45	Salipur	OCIL Feeder	132kV	7.6166	6.8030	8.7231	15-Jan-2020 17:15
		Salipur	3x20=60	17.3575	12.9547	19.1322	12-Jan-2020 10:45
46	Samangara	Samangara	2x20=40	7.0571	10.0896	15.3179	22-Jan-2020 17:45
47	Shamuka	Shamuka	2x31.5=63	11.5201	10.6798	19.8784	10-Jan-2020 9:45
48	Tirtol	Tirtol	2x40=80	3.1368	2.0906	4.9096	30-Jan-2020 16:00
49	TS Alloys S/W	RAWMET Feeder	132kV	20.6736	22.5552	22.2173	24-Jan-2020 18:00
50	Unit-8 GIS	Unit-8 GIS	1x40=40	7.7802	5.4244	17.2335	24-Jan-2020 10:00
	Balugaon	Khallikote Feeder	33kV	-12.2824	-7.9663	18.0567	03-Jan-2020 8:00
	Chandikhol	Badachana Feeder	33kV	10.2083	8.1443	12.2923	11-Jan-2020 9:30
	Rairakhol	Bamur Feeder	33kV	2.9209	1.8832	3.8955	14-Jan-2020 18:00
	Rengali	BUDHAPAL Feeder	33kV	-1.1393	-0.7078	1.3034	25-Jan-2020 10:45
	Barkote	Pallhara Feeder	33kV	0.0000	0.0000	0.0000	01-Jan-2020 0:00
	Chandaka	S.N. Mohanty(Solar)	11kV	0.0000	0.1257	0.5785	27-Jan-2020 11:30
	Chandpur	MGM SOLAR	11kV	0.0000	0.1252	0.6053	27-Jan-2020 11:45
	Chandour	VIVACITY Solar	11kV	0.0000	0.1157	0.5648	12-Jan-2020 11:45
CESU TOTAL ENERGY (MU)				974.7931	558.5047	1.455.6964	

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

Sl.No	Name of Sub Station	Name of Feeder	Installed Capacity MVA	SMD MW	Average Drawal MW	MAX DEMAND	
						MW	Date & Time
1	Aryan-Viraj S/W	Arvan Ispat Feeder	132 kV	0.3980	0.1882	1.8633	13-Jan-2020 16:15
		Arvan-Viraj	132 kV	0.0579	0.1369	3.8314	07-Jan-2020 11:45
2	Bamra	Bamra Traction	132 kV	9.2388	7.6724	17.6082	21-Jan-2020 11:00
3	Barapalli	Dunguripali Tr.	132kV	0.4680	2.9434	9.3265	27-Jan-2020 1:30
		Barapalli	1x40+1x20=60	36.6510	26.8019	41.7476	21-Jan-2020 10:00
4	Bargarh	ACC Feeder-1&2	132kV	0.4453	1.0878	9.9014	19-Jan-2020 18:15
		Bargarh	3x40=120	76.6675	58.9365	75.2879	20-Jan-2020 9:30
5	Bargarh (New)	Bargarh (New)	1x12.5=12.5	0.0148	0.0080	0.0297	14-Jan-2020 20:15
6	Barkote	Barkote (220/33)	2x40=80	8.6432	6.0872	14.7956	16-Jan-2020 18:00
7	Bhalulata	Bhalulata Traction	132 kV	2.8001	3.8129	15.0618	15-Jan-2020 20:30
8	Bhawanipatna	Bhawanipatna	2x12.5=25	8.9839	7.4706	12.1611	21-Jan-2020 17:45
9	Bolangir PG	415V side Tertiary		0.0310	0.0345	0.0310	01-Jan-2020 0:00
10	Bolangir	Bolangir	3x40=120	40.9191	26.6808	50.8380	10-Jan-2020 9:45
11	Bolangir (New)	Bolangir (New)	1x40+1x12.5=52.5	0.1908	0.0872	3.5424	07-Jan-2020 12:00
12	Bonai	Bonai(220/33)	2x20=40	9.5513	8.0985	15.9209	22-Jan-2020 7:45
13	Brajarajinagar	Brajarajinagar	1x40+3x20=100	26.0425	20.6141	28.6978	18-Jan-2020 10:45
14	Budhipadar	AAL Feeder-1&2	220 kV	39.1680	0.0000	43.7400	16-Jan-2020 7:45
		Basundhara Fder	220 kV	4.9311	2.2301	5.3044	02-Jan-2020 19:30
		BPSL Fder-1&2	220 kV	74.1409	16.3960	88.1731	10-Jan-2020 17:45
		MCL Fder-1&2	132 kV	14.2968	13.5164	28.7714	03-Jan-2020 20:00
		MSP Feeder	132 kV	0.0000	0.0000	0.0000	01-Jan-2020 0:00
		SPS(CONCAST) Fdr	220 kV	0.0000	0.0000	0.0000	01-Jan-2020 0:00
		Budhipadar	1x20+1x12.5=32.5	6.5230	6.6928	11.6084	25-Jan-2020 9:30
		Vedanta Ltd	220 kV	1.4400	0.7467	5.4000	01-Jan-2020 18:30
15	Burla P.H.	Island & Incomer	11 kV	0.0656	0.0498	0.0875	03-Jan-2020 6:00
16	Chandiposh	Chandiposh Trac	220 kV	6.6109	4.3940	13.8881	29-Jan-2020 16:45
17	Chend	Adhunik Metallic Fdr.	132 kV	0.0000	0.0000	0.0000	01-Jan-2020 0:00
		Nuagaon Trac.	132 kV	3.4922	1.8721	9.2564	02-Jan-2020 10:45
		Sri Ganesh Metalics	132 kV	1.3669	1.3833	2.5594	16-Jan-2020 17:00
		Chend	3x40=120	53.6994	46.2778	54.3294	30-Jan-2020 9:15
18	Chipilima P.H.	Chipilima P.H.	1x20+1x12.5=32.5	20.9386	15.2493	22.2150	20-Jan-2020 18:15
19	Ghens	Ghens	1x40=40	17.7560	13.0497	21.2055	27-Jan-2020 10:30
20	Jayapatna	Megalift Feeder-I & II	132 kV	0.9360	0.0581	5.4025	30-Jan-2020 16:45
21	Jharsuguda	Jharsugda Trac.	132 kV	5.0019	12.2128	23.2806	16-Jan-2020 19:15
		Jharsuguda	2x40=80	17.0793	12.4673	21.5589	20-Jan-2020 11:45
		Ultratech Feeder	132kV	4.8390	9.1796	11.6710	23-Jan-2020 20:30
22	Junagarah	Junagarah	3x20=60	21.2111	16.2925	26.4739	09-Jan-2020 8:15
23	Kalunga	Kalunga	2x40=80	38.8880	38.7586	43.8667	31-Jan-2020 9:30
		Mahavir Ferro CGP	33 kV	0.0121	0.1348	4.5293	09-Jan-2020 13:15
24	Kantabanji	Kantabanji Trac.	132 kV	1.0390	1.4347	8.2976	31-Jan-2020 14:15
		Kantabanji	2x40=80	6.6235	5.6691	8.9385	06-Jan-2020 10:00
25	Katapali	FRP Feeder	132 kV	10.1813	11.2284	19.8563	30-Jan-2020 5:30
		HINDALCO Fdr-1&2	220 kV	53.2868	53.6133	65.2500	21-Jan-2020 8:00
		Katapali	1x40+2x20=80	32.0324	22.6233	43.0037	17-Jan-2020 19:00
26	Kesinga	POWMEX Fdr	132 kV	0.6995	0.7321	3.5272	17-Jan-2020 9:30
		Kesinga Traction	132 kV	2.4163	1.6455	10.7703	31-Jan-2020 20:00
		Kesinga	1x40+2x20=80	34.3170	20.2978	36.8035	28-Jan-2020 18:00
27	Khariar	Khariar	2x40=80	25.3815	18.9216	35.5478	10-Jan-2020 7:30
28	Kuchinda	Kuchinda	2x20=40	10.8496	8.0319	15.6693	17-Jan-2020 9:15
29	Lapanga	Rengali Traction	132KV	3.0191	4.8392	14.3369	01-Jan-2020 9:45
		Lapanga	1x20=20	7.4832	5.9690	8.6120	17-Jan-2020 18:15
30	Nuapada	Nuapada Trac.	132 kV	0.0000	0.0000	0.0000	01-Jan-2020 0:00
		Nuapada	2x20=40	7.1333	7.1682	10.5027	28-Jan-2020 12:15
31	OPGC S/W Stn.	BGR Energy Ltd. Fdr	33 kV	0.0223	0.0248	0.0223	01-Jan-2020 0:00
		BHEL Ltd. Feeder	33 kV	0.0249	0.0277	0.0249	01-Jan-2020 0:00
32	Padampur	Padampur	1x40+2x20=80	20.2991	15.7381	29.6181	28-Jan-2020 17:15
33	Patnagarh	Patnagarh	1x40+2x20=80	21.5288	12.7585	24.5793	28-Jan-2020 18:00
34	Rairakhol	Rairakhol Trac.	132kV	3.0566	1.9349	9.3334	30-Jan-2020 15:45
		Rairakhol	3x12.5=37.5	8.7664	5.0959	11.2631	16-Jan-2020 10:30
35	Rajgangpur	OCL Feeder	132kV	1.6735	1.1480	10.5840	24-Jan-2020 21:30
		OISL Feeder	132kV	1.2007	2.0104	2.4800	10-Jan-2020 22:45
		Rajgangpur Trac-1&2	132 kV	3.0657	3.2610	19.4912	15-Jan-2020 10:45
		Rajgangpur	3x40=120	41.1405	47.5271	57.4290	15-Jan-2020 19:00
36	Rourkela PG	PG Tertiary		0.0045	0.0050	0.0045	01-Jan-2020 0:00
37	Rourkela	Rourkela Trac Tfr	1x12.5=12.5	8.0425	5.9843	11.5111	10-Jan-2020 6:45
		Rourkela	1x40+3x35=145	37.5424	33.5922	58.9537	16-Jan-2020 8:45
38	Saintala	ORDNANCE Feeder	132 kV	1.3325	1.2449	2.5210	30-Jan-2020 10:45
39	Sambalpur	Sambalpur	1x40+2x31.5=103	52.1450	39.3626	62.0794	09-Jan-2020 7:30
		Shyam DRI Feeder	132 kV	12.3885	13.0292	25.1653	27-Jan-2020 23:15
40	SMC S/W	SMC Power	132kV	4.2117	6.3768	24.9710	28-Jan-2020 12:15
41	Sonepur	Sonepur	2x40+1x20=100	42.4898	24.6144	47.5118	24-Jan-2020 18:45
42	Sundargarah PG	PG TERTIARY	33 kV	0.1119	0.1243	0.1119	01-Jan-2020 0:00
43	Sundargarah	Sundargarah	1x40+2x20=80	24.2329	16.6069	25.5546	09-Jan-2020 12:45
44	Tarkera	RSP Feeder-1&2	220 kV	96.2505	77.6857	135.3967	17-Jan-2020 14:45
		RSP Feeder-3&4	220 kV	5.0699	5.3142	29.4137	29-Jan-2020 10:45
45	Tusura	Tusura	1x40+1x20=60	13.3600	8.9504	14.5735	27-Jan-2020 17:15
46	VAL Lanjigarh	Vedanta Al. fder-1&2	132 kV	0.0000	0.0980	8.3748	12-Jan-2020 17:15
47	Vedanda S/W	Vedanta SEZ	400 kV	7.5515	1.6933	40.2644	23-Jan-2020 12:15

	Barkote	Pallhara Feeder	33kV	0.0000	0.0000	0.0000	01-Jan-2020 0:00
	Joda	Joda-Tensa Feeder	33 kV	7.1231	6.1309	9.0832	06-Jan-2020 18:45
	Rairakhol	Bamur Feeder	33 kV	-3.4340	-1.8832	3.8955	14-Jan-2020 18:00
	Rengali	BUDHAPAL Feeder	33kV	0.9370	0.7078	1.3034	25-Jan-2020 10:45
	Sonepur	Manamunda Feeder	33 kV	0.0000	-5.9893	10.9567	24-Jan-2020 18:30
	Tentulikhunti	Mukhiguda Fdr	33KV	1.4837	0.9889	1.7082	13-Jan-2020 8:45
	ACME SOLAR	ACME SOLAR	132 kV	0.0840	0.0388	0.1453	11-Jan-2020 17:30
	Bamra	Jov Iron Steel (Solar)	11 kV	0.0000	0.0982	0.4615	31-Jan-2020 12:00
	Barkote	Molisati Solar	11 kV	0.0000	0.1086	0.4827	31-Jan-2020 11:45
	Kesinga	SADIPALI Solar	33kV	0.0000	4.5704	18.3240	12-Jan-2020 12:15
	Kesinga	Vento Power Solar -1	132 kV	0.0720	0.0461	0.1080	01-Jan-2020 17:30
	Kesinga	Vento Power Solar -2	132 kV	0.0360	0.0258	0.0720	01-Jan-2020 0:00
	Bonej	Mahavir Solar	33 kV	0.0000	0.1141	0.5752	17-Jan-2020 11:45
	Padampur	Dakshin UPL solar	132kV	0.1080	0.0478	0.1080	01-Jan-2020 0:30
	Patnagarh	ALEX Solar Pvt. Ltd.	33 kV	0.0000	0.0000	0.0000	01-Jan-2020 0:00
	Patnagarh	JYOTI Solar	33 kV	0.0000	2.0342	8.6184	12-Jan-2020 12:00
	Bolangir (New)	REHPL(Solar)	11kV	0.0000	0.1405	0.5962	31-Jan-2020 11:45
	Saintala	BEL-OFBL Solar	132kV	0.0216	0.0159	0.0355	03-Jan-2020 3:15
	Sonepur	GEDCOL Solar	33 kV	0.0000	3.1729	12.9492	07-Jan-2020 12:00
	Sonepur	ABACUS Holdings	11 kV	0.0000	0.1625	0.7440	31-Jan-2020 11:45
	Tusura	Vento Power Solar-I	132 kV	0.4380	0.0391	12.3840	31-Jan-2020 12:15
	Tusura	Vento Power Solar-II	132 kV	0.0720	0.0279	0.0720	01-Jan-2020 0:30
		WESCO TOTAL ENERGY (MU)		1,160.4161	653.6809	1,758.9374	

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

Sl.No	Name of Sub Station	Name of Feeder	Installed Capacity MVA	SMD MW	Average Drawal MW	MAX DEMAND	
						MW	Date & Time
1	Agarpada	Agarpada	1x40=40	1.0661	0.8032	1.3708	20-Jan-2020 8:15
2	Anandpur	Anandpur	1x20+2x12.5=45	10.1852	8.6758	15.5952	23-Jan-2020 16:00
3	Arya Ispat S/w	ARYA Steel Fdr	132kV	6.0706	3.5859	6.6160	31-Jan-2020 8:45
		BRPL Feeder	132kV	9.2772	7.7077	10.1814	22-Jan-2020 2:00
		IMTCPL Fder	132kV	0.0000	0.0000	0.0000	01-Jan-2020 0:00
4	Balasore	BIRLA Tyre Fder	132kV	0.4180	0.3979	1.1431	31-Jan-2020 12:45
		ISPAT Feeder	132kV	54.4667	47.9650	55.1890	02-Jan-2020 6:45
		Balasore Traction	132kV	5.6695	6.7563	14.4597	28-Jan-2020 13:15
		Balasore	2x63+1x40=166	50.5273	39.8644	57.8637	10-Jan-2020 8:15
5	Bangiriposi	Bangiriposi	2x12.5=25	3.4573	2.8108	6.1945	11-Jan-2020 17:45
6	Barbil	Barbil	2x12.5=25	9.9837	8.6029	12.3003	01-Jan-2020 7:45
7	Baripada PG	Baripada PG Stn.		0.0664	0.0738	0.0664	01-Jan-2020 0:00
8	Baripada	Baripada	3x40=120	25.5864	20.9292	32.5773	31-Jan-2020 18:00
9	Basta	Basta	2x20+1x12.5=52.5	20.5792	10.9225	20.6563	28-Jan-2020 7:15
10	BC Mohanty S/w	Bamniral(New) Fdr	132kV	20.9941	21.3369	21.9652	01-Jan-2020 2:00
		BC Mohanty fdr	132 kV	4.0404	4.2398	4.3749	22-Jan-2020 4:15
		TOMKA Traction	132kV	1.9771	2.8151	11.5293	05-Jan-2020 7:15
11	Betanati	Betanati	1x20=20	6.9006	6.0555	10.1904	07-Jan-2020 16:00
12	Bhadrak	Dhamra Port (Trac.)	132 kV	10.9272	8.2017	14.7693	11-Jan-2020 4:30
		Dhamra Port Fder	132 kV	2.9533	0.3230	7.3819	30-Jan-2020 23:00
		FACOR Feeder	132kV	6.5889	0.1880	23.2624	01-Jan-2020 3:15
		FACOR Power	132kV	0.0000	0.0022	0.0360	01-Jan-2020 2:15
		Bhadrak Traction	132 kV	4.8761	6.9611	13.0020	28-Jan-2020 8:45
		Bhadrak	2x63+1x40=166	40.7809	30.2844	48.1310	15-Jan-2020 10:30
		Bhograi	2x40=80	7.0281	4.1113	7.7783	06-Jan-2020 11:30
14	Bolani	Bolani(132/11)	2x10=20	2.2620	2.2959	4.7552	06-Jan-2020 10:30
15	BRPL S/w	BRPL Feeder	132kV	13.2311	13.4895	15.9605	09-Jan-2020 0:00
		Mesco Feeder	132kV	0.4258	0.4321	0.6132	07-Jan-2020 18:00
16	Chandabali GIS	Chandabali GIS	1x40=40	4.2731	3.2898	5.7705	11-Jan-2020 19:00
17	Chandikhol	Chandikhol	3x20=60	22.9630	19.4725	28.7080	06-Jan-2020 11:15
18	Dhenkikote	Dhenkikote	1x20=20	3.4886	2.6255	3.8191	10-Jan-2020 19:45
19	Duburi	Jakhapura Traction	132 kV	14.9172	10.1976	16.7931	08-Jan-2020 20:45
		JFAL Feeder	132 kV	0.0000	0.0000	0.0000	01-Jan-2020 0:00
		Mishrilal Feeder	132 kV	6.2545	6.6889	6.5457	15-Jan-2020 11:30
		NINL Feeder	220 kV	0.0000	0.0748	2.3625	05-Jan-2020 16:00
		Duburi(220/33)	2x40=80	15.3223	11.8989	25.5109	13-Jan-2020 13:00
		Emami Feeder	220 kV	3.9378	3.0326	10.3508	10-Jan-2020 21:00
20	Duburi-New	Jindal Stainless-1&2	220 kV	11.0160	11.0736	29.7000	17-Jan-2020 11:15
		Maithan Feeder	220 kV	0.0000	0.0000	0.0000	01-Jan-2020 0:00
		Rohit Ferrotech	220 kV	25.7802	24.4876	26.9897	27-Jan-2020 9:15
		TATA Steel Fdr-1&2	220 kV	81.2795	72.6826	105.9817	03-Jan-2020 23:30
		VISA Steel	220 kV	0.0000	0.0203	5.7601	14-Jan-2020 15:30
		Jaganath Steel Fdr	132kV	0.9063	4.8500	8.5196	23-Jan-2020 10:30
		Jaipur Road	3x40=120	35.4607	28.8779	40.5402	09-Jan-2020 7:30
21	Jaipur Road	Yazdani CGP Feeder	33 kV	0.0000	0.0000	0.0000	01-Jan-2020 0:00
		Jaipur Town	2x40+1x20=100	25.6457	19.7695	29.6476	09-Jan-2020 7:30
23	Jaleswar	Jaleswar Trac.	132 kV	5.7127	6.0980	12.3740	17-Jan-2020 5:00
		Jaleswar	2x31.5+1x12.5=75.5	25.4532	14.1540	27.3834	20-Jan-2020 12:15
24	Joda	Bansapani Trac.	132 kV	9.7415	7.2367	17.4235	07-Jan-2020 14:45
		FAP Feeder	132kV	14.0125	15.2491	14.6772	12-Jan-2020 2:00
		JSPL Trf-	2x50+1x20=120	41.3155	44.6311	56.2465	10-Jan-2020 23:15
		TATA STEEL	220kV	7.0532	6.1148	7.8122	06-Jan-2020 18:45
		TATA Steel Long	220 kV	0.0000	0.0026	1.8071	27-Jan-2020 11:00
		Joda	1x40+3x20=100	18.9160	16.6200	21.5114	23-Jan-2020 18:15
		Sarada Ind (220/33)	1x15=15	1.0830	0.3266	1.1726	16-Jan-2020 4:30
25	JSW Cement S/W	JSW Cement Fdr	132kV	2.8112	1.8084	7.1426	30-Jan-2020 16:30
26	Karaniia	Karaniia	1x20+2x12.5=45	14.5726	11.4108	15.9683	10-Jan-2020 18:15
27	Keonjhar GIS	Keonjhar GIS	2x20=40	3.5984	3.1854	10.9779	01-Jan-2020 8:45
28	Keonjhar PG	PGCIL Stn. Tertiary		0.1185	0.1317	0.1185	01-Jan-2020 0:00
29	Nalda	Nalda Traction	132 kV	3.1845	3.0477	10.1890	25-Jan-2020 16:15
30	Polasponga	ESIL Feeder	132 kV	13.3930	11.9184	20.8165	10-Jan-2020 1:45
		MSP Feeder	132 kV	10.5927	11.6068	13.5068	12-Jan-2020 0:15
		OSISL CGP Feeder	33 kV	0.0000	0.0000	0.0288	02-Jan-2020 12:00
		Patnaik Steel CGP	33 kV	0.0000	0.0000	0.0000	01-Jan-2020 0:00
		Palasponga Trac.	132 kV	8.5821	6.2957	17.0904	18-Jan-2020 10:00
		Polasponga	1x40+2x20=80	23.2115	20.7324	37.8696	13-Jan-2020 17:45
31	Rairangpur	Rairangpur	2x20+1x12.5=52.5	14.6682	11.4830	17.2145	12-Jan-2020 7:15
32	Somnathpur	IMAMI Feeder	132 kV	1.1836	1.2070	3.1870	01-Jan-2020 4:45
		Stork Feeder	132 kV	8.0453	7.3560	10.4091	26-Jan-2020 13:45
		Somnathpur	2x12.5=25	2.5225	2.4561	3.3850	21-Jan-2020 15:15
33	Soro	Soro	1x40+2x20=80	22.8693	17.5869	35.9949	13-Jan-2020 21:15
34	Udala	Udala	1x40=40	8.0744	6.8290	9.7905	06-Jan-2020 18:15
	Chandikhol	Badachana Fder	33kV	-10.0406	-8.1443	12.2923	11-Jan-2020 9:30
	Joda	Joda-Tensa Fdr	33 kV	-7.3853	-6.1309	9.0832	06-Jan-2020 18:45
		NESCO TOTAL ENERGY (MU)		814.8736	514.9126	1160.4357	

ENERGY DRAWAL OF SOUTHCO CONTROL AREA GRID SUBSTATIONS FOR THE MONTH OF JANUARY'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	9.7923	7.8388	12.9767	09-Jan-2020 10:30
2	Aska	Aska	4x40=160	56.4053	32.4824	52.5464	03-Jan-2020 16:15
3	Balimela	Balimela (220/33)	1x40+1x20=60	10.5666	8.4007	14.9587	17-Jan-2020 7:45
4	Berhampur	Berhampur	2x40+1x20=100	31.9690	26.1842	43.6522	10-Jan-2020 9:30
5	Bhanjanagar	Bhanjanagar	2x40+1x16=96	24.7370	14.8517	33.9701	31-Jan-2020 9:00
6	Boudh	Boudh	2x20=40	6.2838	4.9547	7.4684	24-Jan-2020 18:45
7	Chatrapur	IRE Feeder-1&2	132kV	4.6538	6.6407	9.9423	15-Jan-2020 15:00
		Rambha Traction	132 kV	10.1002	4.8899	13.0624	25-Jan-2020 17:15
		Chatrapur	3x20=60	19.7479	13.1334	25.3726	29-Jan-2020 11:30
8	Chikiti	Chikiti	1x40=40	2.8595	4.6253	8.1382	10-Jan-2020 19:00
9	Dabugaon	Dabugaon	2x12.5=25	8.3952	6.8041	10.6538	11-Jan-2020 18:00
10	Digapahandi	Digapahandi	2x20+1x12.5=52.5	23.4777	13.0533	26.6188	10-Jan-2020 6:45
11	Ganjam	GRASIM Ind. Ltd.	132kV	22.2353	24.0781	22.8594	22-Jan-2020 15:00
		Ganjam	2x12.5=25	15.1008	8.5845	14.4373	09-Jan-2020 15:30
12	Jaypur PG	Jaypur PG Ter.	28KV	0.0752	0.0835	0.0752	01-Jan-2020 0:00
13	Jayanagar	Jaypur Trac.	132 kV	15.6194	9.8468	25.6167	28-Jan-2020 0:00
		Jayanagar	2x20+1x12.5=52.5	23.6377	18.9743	30.9745	29-Jan-2020 11:00
14	Laxmipur	Laxmipur	1x20=20	9.2614	5.8625	10.3236	16-Jan-2020 7:30
		Utkal Alumina Fdr-I&II	220kV	9.4327	0.1310	10.9813	30-Jan-2020 19:45
15	Malkangiri	Malkangiri (220/33)	2x40=80	10.2662	7.1219	19.1523	11-Jan-2020 9:30
16	Meenakshi s/w	Megalift Feeder	33kV	0.0036	0.0069	0.1555	23-Jan-2020 11:00
17	Mohana	Mohana	2x12.5=25	4.6662	3.8385	5.8465	14-Jan-2020 18:30
18	Muniguda	Bissam-Cuttack Tr	132 kV	3.2857	1.9083	11.3183	14-Jan-2020 20:15
19	Narendrapur	TATA Feeder-I&II	220 KV	0.0000	0.0000	0.0000	01-Jan-2020 0:00
		Narendrapur Trac	132 kV	3.6708	5.1656	15.0620	03-Jan-2020 12:30
		Narendrapur	3x40+1x20=140	20.7763	17.0102	28.8513	09-Jan-2020 8:30
20	Paralakhemendi	Paralakhemendi	3x12.5=37.5	9.5991	8.2559	11.2280	01-Jan-2020 8:45
21	Phulbani	Phulbani	2x40+1x12.5=92.5	19.9768	14.8103	22.3511	13-Jan-2020 11:00
22	Podagada	Podagada	1x12.5=12.5	0.4212	0.5406	1.8452	25-Jan-2020 7:45
23	Potangi	Potangi	1x40=40	3.4436	2.2846	4.6394	05-Jan-2020 7:30
24	Purushottampur	Purushottampur	1x20+2x12.5=45	11.9461	7.6322	18.9620	12-Jan-2020 7:00
25	Rayagada	Rayagada Trac.	132 kV	1.9246	2.3630	10.2796	26-Jan-2020 13:30
		Rayagada	2x12.5=25	5.8234	4.1992	9.2783	08-Jan-2020 11:30
26	Sunabeda	HAL Feeder	132kV	7.5762	4.9500	11.0633	11-Jan-2020 8:30
		Sunabeda	1x20+2x12.5=45	23.5335	16.4629	24.4189	22-Jan-2020 7:30
27	Tentulikhunti	Tentulikhunti	3x20=60	12.5665	9.7493	15.4080	02-Jan-2020 11:00
28	Therubali	JK Feeder	132kV	0.0396	0.0022	1.3066	10-Jan-2020 18:00
		Therubali	2x12.5=25	9.9450	7.1001	10.0440	22-Jan-2020 18:15
29	Umerkote	Umerkote	2x20=40	12.9524	12.8840	18.7989	25-Jan-2020 8:00
	Balugaon	Khallikote Feeder	33kV	13.8629	7.9663	16.6678	03-Jan-2020 8:00
	Sonepur	Manamunda Feeder	33kV	8.3545	5.9893	10.9567	24-Jan-2020 18:30
	Tentulikhunti	Mukhiguda Fdr	33KV	-1.5666	-0.9889	1.7082	13-Jan-2020 8:45
	Tentulikhunti	Vento Energy Solar	132 kV	0.0000	0.0422	0.1080	02-Jan-2020 3:45
		SOUTHCO TOTAL ENERGY (MU)		487.4182	260.9314	644.0787	

AUTO TRANSFORMER LOADING FOR THE MONTH OF JANUARY'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	28.40	16th Jan 2020	08:45	0.04	1st Jan 2020	23:45	
ASKA NEW	2x160	28.48	8th Jan 2020	08:15	0.04	1st Jan 2020	23:45	
		38.08	15th Jan 2020	08:45	0.60	29th Jan 2020	12:30	
		37.76	15th Jan 2020	08:30	0.60	29th Jan 2020	12:30	
BALASORE 220/132 KV { Balasore, Birla Tyre(I), Ispat Alloy(I), Jaleswar, Jaleswar(T) }	3x160	83.40	21st Jan 2020	18:00	30.36	10th Jan 2020	11:45	
		66.92	25th Jan 2020	18:45	30.32	10th Jan 2020	11:45	
		87.60	21st Jan 2020	17:00	31.80	10th Jan 2020	10:45	
BARGARH 220/132 kV	1x100	19.40	6th Jan 2020	17:45	0.32	29th Jan 2020	12:00	
	1x160	18.56	7th Jan 2020	16:45	0.08	9th Jan 2020	09:45	
BHADRAK 220/132 KV {Bargarh, Ghensh}	1x100	34.48	11th Jan 2020	19:15	6.56	31st Jan 2020	00:00	
	1x160	61.52	11th Jan 2020	19:00	12.32	31st Jan 2020	00:00	
	1x160	61.68	11th Jan 2020	19:15	12.36	31st Jan 2020	00:00	
BHANJANAGAR 220/132 KV { Bhanjanagar, Aska, Phulbani, Ganjam, Chatrapur }	1x160	76.04	8th Jan 2020	08:30	10.04	16th Jan 2020	02:00	
	1x160	66.84	8th Jan 2020	08:30	8.44	7th Jan 2020	17:45	
BIDANASI 220/132 KV {Bidanasi, Khurda }	1x100	UNDER SHUT DOWN						
	1x100	25.92	16th Jan 2020	10:15	0.04	1st Jan 2020	07:30	
	1x160	36.92	16th Jan 2020	10:15	0.04	1st Jan 2020	09:30	
BOLANGIR (SADAIPALLI) 220/132 KV { Bolangir, Patnagarh, Sonepur, Saintala, Khariar, Barpalli }	2x160	131.88	28th Jan 2020	18:15	0.44	16th Jan 2020	11:45	
		138.76	28th Jan 2020	18:15	0.56	16th Jan 2020	11:45	
BUDDHIPADAR 220/132 KV { Jharsuguda, Jharsuguda Tr, Cemco(I), MCL, }	2x160	98.68	17th Jan 2020	18:15	42.80	29th Jan 2020	12:30	
		82.56	28th Jan 2020	18:00	42.56	29th Jan 2020	12:30	
CHANDAKA 220/132 KV { Chandaka, Bhubaneswar, Nimapada, Ransinghpur, Puri,Kesura, Kaipadar Tr. }	1x100	60.92	6th Jan 2020	18:00	17.32	2nd Jan 2020	02:15	
	1x160	105.24	6th Jan 2020	18:00	30.12	2nd Jan 2020	02:30	
	1x100	65.68	6th Jan 2020	18:00	18.64	2nd Jan 2020	02:30	
	1x160	91.88	13th Jan 2020	17:45	30.20	1st Jan 2020	03:30	
CUTTACK	1x160	63.96	4th Jan 2020	12:15	10.16	3rd Jan 2020	16:15	
	1x100	38.68	4th Jan 2020	12:15	6.20	4th Jan 2020	04:15	
DUBURI 220/132 KV {Duburi, Bamnipal(I), BRPL, MESCO, Jajpur Road, Kalarangi, Jajpur Town}	1x160	90.80	21st Jan 2020	10:30	0.20	3rd Jan 2020	13:15	
	1x100	57.92	21st Jan 2020	10:30	0.04	7th Jan 2020	15:45	
	1x100	55.20	20th Jan 2020	18:00	0.08	3rd Jan 2020	12:45	
JAYANAGAR 220/132 KV. {Damanjodi(NALCO), Traction S/Ss, }	1x160	56.52	28th Jan 2020	07:15	1.28	17th Jan 2020	11:45	
	1x160	56.84	28th Jan 2020	07:15	2.20	5th Jan 2020	13:00	
JODA 220/132 KV { Joda, Tensa, FAP(I), Bolani(I), Nalda Tr.,Polasponga, *Rairangpur, Bhalulata traction }	3x100	63.76	6th Jan 2020	20:00	30.36	3rd Jan 2020	04:00	*** - Alternate P/S from
		UNDER SHUT DOWN						
		65.92	6th Jan 2020	20:00	31.44	3rd Jan 2020	04:00	
KATAPALI 220/132 KV {Chipilima,Bargarh, ACC,Sonepur & Katapali area load.}	1x100	27.80	31st Jan 2020	00:00	0.04	2nd Jan 2020	21:45	Supported by Burla & Chipilima
	1x100	27.72	31st Jan 2020	00:00	0.04	1st Jan 2020	04:00	
	1x160	41.80	31st Jan 2020	00:00	0.04	2nd Jan 2020	10:00	
LAPANGA {Kuchinda, Aryan Viraj, Shyam Metalics}	2x160	87.12	28th Jan 2020	18:00	25.84	9th Jan 2020	11:15	
		73.80	27th Jan 2020	16:30	25.80	9th Jan 2020	11:15	
MERAMUNDALI 220/132 kV {Meramundali Traction, Dhenkanal, Navchrome(I), Hind Metal, Aarti,BRG}	3x100	29.68	16th Jan 2020	18:15	1.44	26th Jan 2020	03:00	
		32.88	31st Jan 2020	00:00	1.52	26th Jan 2020	03:00	
		32.60	31st Jan 2020	00:00	0.72	4th Jan 2020	02:45	
Mendhasal { Part area load of Khurda S/S }	2x100	42.60	10th Jan 2020	04:15	2.40	22nd Jan 2020	04:30	
		45.00	10th Jan 2020	04:15	2.40	22nd Jan 2020	04:30	
NARENDRAPUR 220/132KV { Narendrapur, NarendrapurTr, Berhampur, Chhatrapur, Ganjam, Balugaon, Digapahandi, Mohana.}	2x160	107.52	29th Jan 2020	16:30	35.84	5th Jan 2020	02:45	
		100.16	7th Jan 2020	08:00	18.52	4th Jan 2020	15:45	
	1x100	61.92	29th Jan 2020	16:30	20.08	5th Jan 2020	02:45	
PARDEEP 220/132 KV { Paradeep, Kendrapada, Pattamundai, Chandikhol, Cuttack, Jagatsinghpur, Phulnakhara }	1x100	50.04	17th Jan 2020	19:45	0.08	17th Jan 2020	16:45	
	1x160	82.44	17th Jan 2020	19:45	12.28	22nd Jan 2020	15:15	
	1x160	63.48	24th Jan 2020	18:15	0.28	8th Jan 2020	08:30	
TARKERA 220/132 KV { Rourkela, Rourkela Tr.,RSP(I), Chhend , Adhunik Metal, Rajgangpur, OCL(I), Rajgangpur Tr. }	4x100	68.20	24th Jan 2020	10:45	0.12	8th Jan 2020	10:00	
		71.48	24th Jan 2020	10:45	14.20	10th Jan 2020	16:45	
		67.12	24th Jan 2020	10:45	3.00	29th Jan 2020	15:00	
		67.56	24th Jan 2020	09:15	0.04	8th Jan 2020	09:45	
THERUVALLI 220/132 KV. {Theruvalli, IMFAL(I), JK(I), Junagarh, Kesinga,Powmex(I), Rayagada, }	2x100	43.68	10th Jan 2020	08:00	6.64	11th Jan 2020	13:00	Rayagada & Paralakhemundi can be fed from
		46.84	31st Jan 2020	00:00	6.40	11th Jan 2020	13:00	
	1x160	72.44	31st Jan 2020	00:00	9.64	11th Jan 2020	13:15	
TTPS 220/132 KV { Chainpal, FCI (I), Angul, MCL Nandira(I), }	1x160	82.12	18th Jan 2020	13:30	0.00	2nd Jan 2020	07:30	
	1x160	82.12	18th Jan 2020	13:30	0.00	2nd Jan 2020	07:30	
SAMANGARA { Puri, Nimapara & Konark }	2x160							

SYSTEM DISTURBANCE IN THE MONTH OF JANUARY-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	Paradeep	03.01.20	04:41	13:48	09:07	220kV New Duburi - Paradeep ckt -II	At Duburi end: Tripped on O/C,Y Ph E/F Z1,Dist - 5.41KM (Insulator string failure at Loc-110)				
2	Paradeep	04.01.20	06:04	07:01	00:57	132 kV Paradeep - IFFCO ckt -I	At Paradeep end: Tripped on O/C, RYB PH				
3	Paradeep	04.01.20	10:23	18:43	08:20	220kV New Duburi - Paradeep ckt -I	At Paradeep end: Tripped on O/C, R- PH Z1, Dist-17.9 (R-Ph conductor snapped at Loc- 356, 357)				
4	Meramundali	05.01.20	18:50	19:10	00:20	132 kV Meramundali - Khajuriakata fdr	At Meramundali end: R-E,Z2,27.04KM,IR=3.42KA At Khajuriakata end: R-E,Z1,5.4KM				
5	Kamakhyanagar	07.01.20	05:42	06:56	01:14	132 KV OPCL -Kamakhyanagar CKT-I	At Kamakhyanagar end: Tripped on E/F				
6	Rengali SY	14.01.20	13:53	14:10	00:17	220 kV Rengali SY - Tarkera ckt- II	At Rengali SY end: IA=1560.3A,IB=82.6A,IC=59.9A,IN=1181.49A,IG=1609.39A				
7	Paradeep	14.01.20	15:36	22:38	07:02	220kV New Duburi - Paradeep ckt -II	At Paradeep end: Tripped on C-G,Z1,Dist-87.9km (B-ph LA burst at New Duburi end)				
8	Bhograi	15.01.20	01:32	02:24	00:52	132 kV Bhograi - Bariapada PG fdr	At Bhograi end: Zone-1,R-Ph E/F,Dist -9.2KM,IR-1221.2A,IY-205.3A,IB-252.4A				
9	Paradeep	04.01.20	06:04	07:01	00:57	132 kV Paradeep - IFFCO Ckt -II	At Paradeep end: Tripped on O/C, B PH				
			06:04	07:01	00:57		At Paradeep end: Tripped on O/C, Y- PH				
10	Bhograi	15.01.20	06:09	09:35	03:26	132 kV Bhograi - Jaleswar fdr	At Bhograi end: Zone-1,Y-Ph E/F ,Dist- -11.6 KM,IY-1058.6A. AT Jaleswar end: Y Ph E/F , Dist- 14.3 km , Z-1 , FC -1.41 kA				
11	Rajgangpur	15.01.20	09:10	09:22	00:12	132 kV Rajgangpur - Tarkera ckt -I	At Rajgangpur end: 64N operated				
12	Jajpur Road	15.01.20	21:03	14:10	17:07	132 KV Jajpur Road - Anandpur ckt-I	Distance Proction,27.47 KM, fault current Ia=159.1 Amp, Ib=1.633Ka, Ic=77.75 A.p Zone-I (Y-phase LA failure)				
13	Sadeipali	16.01.20	13:34	13:50	00:16	220KV PGCIL-Sadeipali ckt	At Sadeipali-Tripped only on master trip relay operated without no indication on back up as well as on distance protection relay.				
14	Paradeep	16.01.20	23:57	17:37	17:40	132 kV Paradeep - PPL ckt-I	At Paradeep end: Tripped on O/C, Y Ph (Y-ph LA burst at PPL end)				
15	Jaleswar	17.01.20	05:00	07:40	02:40	132 kV Jaleswar - Bhograi fdr	At Jaleswar end: Y Ph E/F , Dist - 13.7km , Z-1 , FC -1440 A At Bhograi end: : Y Ph E/F , Dist - 12.1 Km , Z-1 , Fault current - 1059.5 A				
16	Paradeep	18.01.20	03:51	11:28	07:37	132 kV Paradeep - IFFCO ckt -II	At Paradeep end: Tripped on O/C B-Ph				
17	Bhograi	18.01.20	05:49	07:45	01:56	132 kV Bhograi - Jaleswar fdr	At Bhograi end: Zone-1,Y-Ph E/F,Dist -11.7 km ,IY-1058.8A. At Jaleswar end: Y Ph E/F , Dist - 13.8 km , Z-1 , FC-1427.2A				
18	Paradeep	18.01.20	03:51	11:28	07:37	132 kV Paradeep - IFFCO Ckt -II	At Paradeep end: Tripped on O/C, B PH				
19	Paradeep	19.01.20	06:53	13:35	06:42	132 kV Paradeep - IFFCO Ckt -II	At Paradeep end: Tripped on O/C, B PH				
20	Bhograi	21.01.20	04:09	04:46	00:37	132 kV Bhograi - Bariapada PG fdr	At Bhograi end: zone-1,R-Ph E/F,Dist -5 KM ,IR-1293.9A.				
21	Meramundali	21.01.20	08:25	08:59	00:34	400 kV Meramundali - Angul ckt -II	At Meramundali end: DTT Trip,IR=0.23KA,IY=0.2KA,IB=0.18KA,M/T				
22	Bhograi	21.01.20	22:49	23:18	00:29	132 kV Bhograi - Bariapada PG fdr	At Bhograi end: Zone-1,R-Ph E/F,Dist -9.3 km ,IR-1187.2A.				
23	Bargarh(New)	22.01.20	00:00	00:13	00:13	220KV Bargarh(New)-Bolangir New ckt	At Bolangir New-Tripped on distance protection				
24	Budhipadar	24.01.20	13:21	13:30	00:09	132 kV Budhipadar - MCL ckt -II	At Budhipadar End: Trip ABC, Zone-I, FAD =6.384KM FL= A-N, IL1=8.258 KA				
25	Sundargarh	24.01.20	13:22	13:26	00:04	132 KV Budhipadar-Sundargarh ckt-I	At Sundargarh end: E/F, IL1=0.05 KA, IL2=0.06 KA, IL3=0.14 KA				
26	Rairakhole	29.01.20	00:45	16:09	15:24	132 kV Rairakhole - Sambalpur feeder	At Rairakhole end: DP operated,Dir. O/C, E/F ,Y-PH				
27	Paradeep	30.01.20	11:11	12:48	01:37	220/132KV AUTO TRF-1	TRIPPED ON M/T,GROUP A/B RELAY OPERATED				

SYSTEM DISTURBANCE IN THE MONTH OF January- 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	Therubali	02.01.20	11:52	12:12	00:20	132KV Therubali -Kesinga Feeder	At Therubali end: Tripped on O/C.	Muniguda, VAL (Lanjigarh), Kesinga, Bhawanipatna, Junagarh, Powmex, Kesinga Tr	00:20		0.016137
			11:53	12:12	00:19	132 kV Kesinga - Bhawanipatna fdr					
2	Polasponga	03.01.20	07:40	07:55	00:14	132 kV Polasponga - Keonjhar Tr fdr	At Polasponga end: O/C (R PH), Ia=220.2A, Ib=194.2A, Ic=34.84A, In measured= 6.725A, In derived= 5.003A	Keonjhar Tr	00:14		0.001468
3	Tirtol	04.01.20	10:22	10:31	00:09	132 kV Tirtol -Jagatsinghpur fdr	Tripped from Paradeep end	Tirtol, Jagatsinghpur, Gorekhnath Tr	00:09		0.003689
			10:22	11:01	00:39	132 kV Paradeep - Tirtol fdr					
4	Puri	05.01.20	16:30	17:51	01:21	132KV Nimapara -Puri Feeder	At Nimapara end: Zone-2, (Y-ph to Earth), Distance= 24.69 KM (LA of 132 kV Shamuka - Puri fdr burst)	Puri Shamuka	00:24	Availed supply from Khurda end.	0.007756
			16:30	06.01.20 14:24	21:54	132 kV Shamuka - Puri fdr					
5	Polasponga	06.01.20	03:07	03:36	00:28	132 kV Polasponga - Keonjhar Tr fdr	At Polasponga end: O/C (R PH), Ia=220.8A, Ib=171.7A, Ic=61.05A, In measured= 6.875A, In derived= 6.713A	Keonjhar Tr	00:57		0.005976
6			06:57	07:26	00:29	At Polasponga end: O/C (R PH), Ia=222.5A, Ib=123.3A, Ic=119.5A, In measured= 7.328A, In derived= 7.706A					
7	Ganjam	08.01.20	09:47	09:54	00:07	132KV Chatrapur -Ganjam Feeder	Power supply failure from Chatrapur end.	Ganjam, JCL	00:07		0.003809
8	Puri	10.01.20	09:15	09:24	00:09	132 kV Nimapara - Puri fdr	Tripped at Nimapara end	Puri	00:09		0.002909
			09:15	09:24	00:09	132 kV Shamuka - Puri fdr		Shamuka			
9	Polasponga	10.01.20	11:45	00:14	12:28	132 kV Polasponga - Keonjhar Tr fdr	At Polasponga end: O/C (R PH), Ia=425.8A, Ib=373.3A, Ic=292.1A, In=0.0A,Ig=4.08A	Keonjhar Tr	12:28		0.078625
10	Saintala	11.01.20	05:27	05:31	00:04	132KV Saintala -Khariar Line	Tripped from Saintala on E/F	Khariar,Nuapada Kantabanji, Kantabanji Tr	00:04		0.002211
11	Bolangir	13.01.20	06:46	07:06	00:20	220KV Bargarh(New)-Bolangir New ckt	At Bolangir New end-Tripped on directional o/c and e/f	Acme,Saintala,Khariar,Nuapara,Tusura,Kantabanji, Kantabanji Tr, Sonepur,Boudh	00:20		0.024317
			06:46	07:13	00:27	220KV PGCIL-Sadeipali ckt					
			06:46	07:06	00:20	133 kV Bolangir New- Bolangir ckt -I					
			06:46	07:06	00:20	132 kV Bolangir New- Bolangir ckt -II					
12	Bhawanipatna	13.01.20	14:29	14:33	00:04	132 kV Kesinga - Bhawanipatna fdr	At Kesinga end-Tripped	Bhawanipatna, Junagarh	00:04		0.001584
13	Therubali	13.01.20	14:38	15:11	00:33	132KV Therubali -Kesinga Feeder	At Therubali end: Tripped on O/C, D/P Zone-2,B-N, 28.23Km	Muniguda, VAL(Lanjigarh), Kesinga, Bhawanipatna, Junagarh, Powmex, Kesinga Tr	00:33		0.026862
14	Barbil	15.01.20	09:09	09:45	00:36	132 KV Barbil - Bolani-Beekay Steel fdr	At Joda end-Tripped	Barbil , Bolani, Arya , Nalda Traction , BRPL	00:36		0.018594
15	Polasponga	17.01.20	03:50	04:04	00:14	132 kV Polasponga - Keonjhar Tr fdr	At Polasponga end: O/C (R PH), Ia=219.9A, Ib=187.9A, Ic=38.14A, In measured= 6.869A, In derived= 5.336A	Keonjhar Tr	00:14		0.001468
16	Chandikhole	17.01.20	16:41	17:34	00:53	132 kV Chandikhole- Kendrapara feeder	Tripped at Kendrapara end	Chandikhole	00:04	At 16:45 Hrs , P/S availed from Jajapur Road end.	0.001298
17	Tirtol	17.01.20	16:41	17:06	00:25	132 kV Paradeep - Tirtol fdr	Tripped from Paradeep end on E/F	Tirtol Jagatsinghpur	00:25		0.002413
			16:41	17:06	00:25	132 kV Tirtol - Jagatsinghpur fdr			00:06		

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)
18	Paradeep	17.01.20	16:41	17:06	00:25	220/132 kV 160 MVA AUTO TRF-I	At Paradeep end: Tripped on E/F	Paradeep, IFFCO,PPL,PPT, Essar, Tirtol, Marshaghai, Kendrapara, Chandikhole, Olavar, Pattamundai	00:25		0.037646
			16:41	18.01.20 13:21	20:30	220/132 kV 160 MVA AUTO TRF-III	At Paradeep end: Tripped on E/F,O/C RYB PH,Differential R-Y operated (132 kV B-ph LA failure)				
			16:41	17:21	00:40	132kV Paradeep - PPL ckt-II	At Paradeep end: Tripped on E/F				
			16:41	17:09	00:28	132kV Paradeep - PPT Ckt-I & II					
			17:42	18:10	00:28	132kV Paradeep - Kendrapara ckt-II	At Paradeep end: Tripped on A-G Z1,Dist-23.33KM				
19	Baripada	18.01.20	16:26	12:48	20:22	132 kV Baripada - Baripada PG fdr	At Baripada PG end: B-Phase,E/F,Zone-I, Fault Distance=1.542Km At Baripada end: Master Trip , Zone-I, Ia-152 Amp,Ib-292Amp,Ic=200A	Baripada	00:20	At 16:46 Hrs, P/S availed from Betnoti end.	0.006973
20	Saintala	20.01.20	05:54	05:56	00:02	132KV Saintala -Khariar Line	At Saintala end: Tripped on O/C	Khariar, Nuapada Kantabanji, Kantabanji Tr	00:02		0.001106
21	Shamuka	20.01.20	18:05	18:16	00:11	132 kV Khurda - Shamuka fdr	Tripped at Khurda end	Shamuka	00:11		0.001956
22	Chandikhole	21.01.20	15:07	16:28	01:21	132 kV Chandikhole - Kendrapara feeder	Tripped at Kendrapara end	Chandikhole	00:10	At 15:17 Hrs P/S availed from Jajapur Road end	0.004602
23	Paradeep	22.01.20	15:07	15:17	00:10	220kV New Duburi - Paradeep ckt -I	At Paradeep end: Tripped on M/T,E/F	Paradeep, IFFCO,PPL,PPT, Essar, Jagatsinghpur, Tirtol, Gorekhnath Tr, Marshaghai, Kendrapara, Chandikhole, Olavar, Pattamundai	00:10		0.015058
			15:07	16:50	01:43	220kV New Duburi - Paradeep ckt -II	At Paradeep end: Tripped on A-G Z1,D-13.3KM				
			15:07	15:13	00:06	132 kV Tirtol - Jagatsinghpur fdr	P/S failure Paradeep end				
			15:07	15:40	00:33	132 kV Paradeep - Tirtol fdr	Tripped from Paradeep end on E/F				
24	Polasponga	25.01.20	11:31	12:00	00:28	132 kV Polasponga - Keonjhar Tr fdr	At Polasponga end: O/C (R PH), Ia=220.2A, Ib=142.9A, Ic=107.2A, In measured= 7.011A, In derived= 6.532A	Keonjhar Tr	00:28		0.002935
25	Sonepur	27.01.20	18:00	18:30	00:30	132 kV Balangir-Sonepur fdr	At Bolangir end-Tripped	Sonepur, Boudh	00:30		0.014780
26	Sadeipali	28.01.20	12:04	12:11	00:07	132KV Sadeipali-Barpali ckt	At Sadeipali-Tripped on distance protection.	Barpali	00:07		0.001003
27	Sadeipali	28.01.20	12:53	13:22	00:29	132KV Sadeipali-Sonepur ckt-I	At Sadeipali-Tripped on distance protection as well as on directional o/c and e/f.	Sonepur, Boudh	00:29		0.014287
28	Polasponga	28.01.20	06:14	06:43	00:28	132 kV Polasponga - Keonjhar Tr fdr	At Polasponga end : O/C (R PH), Ia=223.5A, Ib=165.5A, Ic=64.9A, In measured= 6.972A, In derived= 5.372A	Keonjhar Tr	00:28		0.002935
29	Sonepur	28.01.20	12:53	13:25	00:32	132 kV Balangir -Sonepur fdr	At Bolangir end-Tripped	Sonepur, Boudh	00:32		0.015765
30	Tirtol	29.01.20	03:02	03:10	00:08	132 kV Tirtol - Jagatsinghpur fdr	Tripped from Paradeep end on E/F	Tirtol, Jagatsinghpur, Gorekhnath Tr	00:08		0.003884
			03:02	03:10	00:08	132 kV Paradeep -Tirtol fdr					
31	Ganjam	29.01.20	05:59	06:08	00:09	132KV Chatrapur -Ganjam Feeder	At Chatrapur end-Tripped.	Ganjam, JCL	00:09		0.004898
32	Bhadrak	30.01.20	07:31	08:32	01:01	132 kV Bhadrak - DPCL ckt -II	At Bhadrak end: Tripped on E/F, 86 A & 86 B	DPCL	01:01		0.000320
33	Sonepur	30.01.20	10:50	11:01	00:11	132 kV Balangir -Sonepur fdr	At Bolangir end-Tripped	Sonepur, Boudh	00:16		0.007883
			16:22	16:27	00:05						
34	Baripada	30.01.20	11:10	11:54	00:44	132 kV Baripada - Baripada PG fdr	At Baripada PG end: Master Trip, E/F & O/C in L1,L2& L3	Baripada	00:44		0.015341
35	Balimela	31.01.20	16:37	16:43	00:06	132 kV Balimela - Balimela(OHPC) fdr	Tripped at Balimela(OHPC) end	Balimela, Malkanagiri	00:06		0.001552

STATEMENT OF UFR OPERATION IN GRIDCO SYSTEM DURING THE MONTH OF JANUARY-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 JANUARY - 2020		
Sl. No	Date	Details of event
1	22.01.2020	At 13:36 Hrs, 2nd 40 MVA, 132/33 kV Power Transformer charged at GIS, Khuntuni.
2	23.01.2020	At 00:37 Hrs, 160 MVA, 220/132 kV Auto Transformer -II at Jayapatna S/S charged.
3	27.01.2020	At 17:55 Hrs, 132 kV Bolangir (New) -Sonepur feeder charged through “T” arrangement in 132 kV Bolongir (Old)- Sonepur ckt at Loc no-14.