

SYSTEM PERFORMANCE REPORT



OCTOBER'2020

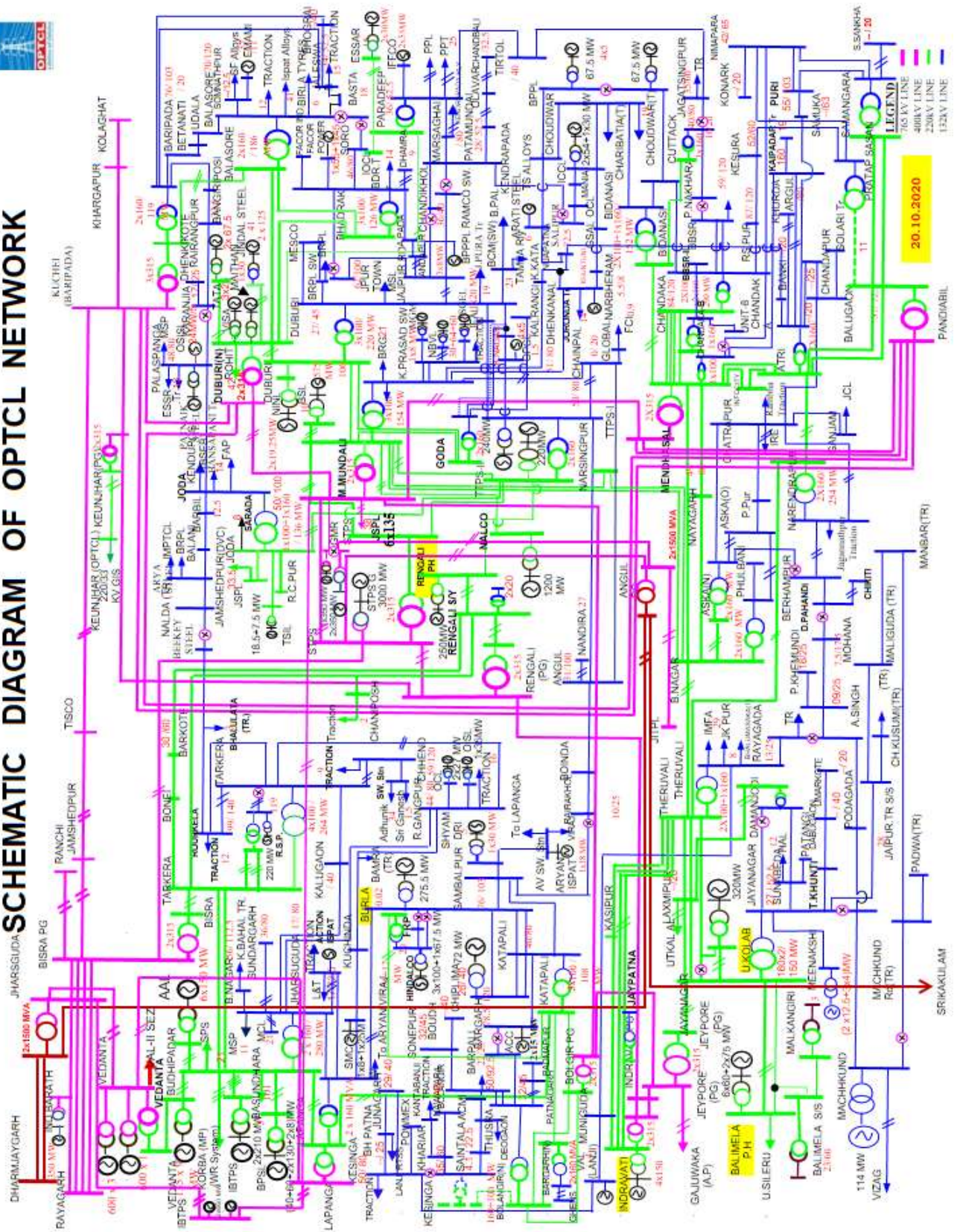
SLDC, OPTCL
BHUBANESWAR – 17

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SCHEMATIC DIAGRAM OF OPTCL NETWORK



SUMMARY REPORT FOR OCTOBER- 2020

A. Voltage Profile

<u>220 KV</u>			<u>Date & Time</u>	<u>Location</u>
Maxm. -	244.04 kV	01.10.2020 14:15Hrs	Balimela	
	>240 KV		Balimela, Bhanjanagar, Jayanagar, Laxmipur, Theruvali	
Minm. -	210.44 kV	11.09.2020 10:45 Hrs	Bhadrak	
	< 200 KV		Nil.	
<u>132 KV</u>	Maxm. -	152.44 kV	05.10.2020 13:15 Hrs	Kantabanji
	>145 KV		Kantabanji, Padampur.	
Minm. -	103.87 kV	02.10.2020 15:15 Hrs	Padampur	
	< 120 KV		Aska, Jajpur Town, Kantabanji, Padampur, Puri	

B. Frequency Profile

		<u>Date & Time</u>
Maxm. -	50.20 Hz	11.10.2020 22:01 Hrs.
Minm. -	49.70 Hz	28.10.2020 18:14 Hrs.
Average -	50.00 Hz	
% of time the freq. is within 49.9 Hz to 50.05 Hz (IEGC band)	-	80.11%
% of time the freq. is > 50.05 HZ	-	16.25%
% of time the freq. is ≤49.9 HZ	-	3.64%
% of time the freq. is < 48.5 HZ	-	0.00%

C. Demand Profile

Peak System Demand	5048.32 MW	At 19:00 Hrs on 19.10.20
Minimum System Demand	2712.26 MW	At 04:00 Hrs on 29.10.20
Average System Demand	3760.52 MW	

D. Major events

<u>Sl. No</u>	<u>Date</u>	<u>Details of event</u>
1	21.10.20	At 13:04 Hrs, 40 MVA , 132/33 kV Power Transformer - IV charged at Grid S/S, Sambalpur.
2	22.10.20	At 15:49 Hrs, 40 MVA , 132/33 kV Power Transformer - II charged at Grid S/S, Udala.
3	22.10.20	At 13:41 Hrs, 40 MVA , 132/33 kV Power Transformer - III charged at Grid S/S, Kalunga
4	23.10.20	At 16:05 Hrs, 132 kV RTSS Charibatia bay charged at Grid S/S, Choudwar.
5	28.10.20	At 13:47 Hrs, 132 kV Nuapada bay charged at Grid S/ S, Padampur.
6	28.10.20	At 18:50 Hrs, 132 kV Padampur bay charged at Grid S/ S, Nuapada.
7	30.10.20	At 14:40 Hrs, 132/33 kV Grid S/S, Brajabiharipur charged. Subsequently 40 MVA 132/33 kV Power Transformer II & I charged at 16:05 Hrs & 16:34 Hrs respectively.
8	30.10.20	At 19:32 Hrs, 132/33 kV Grid S/S, Pratapsasan charged by LILO arrangement in 132 kV Kesura - Nimapada ckt. At 20:12 Hrs - 40MVA, 132/33 kV Power Transformer -I Charged at Grid S/S, Pratapsasan.
9	30.10.20	At 13:30 Hrs, 132 kV Dhanamandal RTSS bay charged at Grid S/S, Chandikhole.

GENERATION CAPACITY

STATE SECTOR GENERATION

All Figures in MW

SL.NO.	NAME OF POWER STATION	INSTALLED CAPACITY		FIRM POWER (MW)
1	O.H.P.C.			
	HIRAKUD POWER STATION			
	(a)BURLA	2x49.5 = 99 2x32 = 64 3x37.5 = 112.5	275.5	134
	(b)CHIPLIMA	3x24	72	
	BALIMELA POWER HOUSE	6x60 + 2x75	510	135
	RENGALI POWER HOUSE	5x50	250	60
	UPPER KOLAB POWER HOUSE	4x80	320	95
	INDRAVATI POWER HOUSE	4x150	600	224
	MACHHKUND POWER HOUSE (Orissa Share 30%, Purchase upto 20% extra)	3x17 = 51.00 3x23= 69	36	30
	TOTAL HYDRO (A)	2063.5		
2	N.T.P.C.(TAKEN OVER)			
	TTPS STAGE-I	4x60 = 240	160.2 (Auxilliary 10.5 %, Availability 80%)	160.2 (Auxilliary 10.5 %, Availability 80%)
	TTPS STAGE - II	2x110 = 220	146.85 (Auxilliary 10.5 %, Availability 80%)	146.85 (Auxilliary 10.5 %, Availability 80%)
	TOTAL TTPS	460		
3	O.P.G.C.			
	IB TPS	2x210 = 420	342.09 (Auxilliary 9.5 %, Availability 90%)	342.09 (Auxilliary 9.5 %, Availability 90%)
	IB TPS-Stage-II	2x660 = 1320	(75) 833.085 (Share 75%, Auxilliary 6.25 %, Availability 90%)	835.312 (Share 75%, Auxilliary 6.25 %, Availability 90%)
	TOTAL THERMAL (B)	2200		

CENTRAL SECTOR GENERATION

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

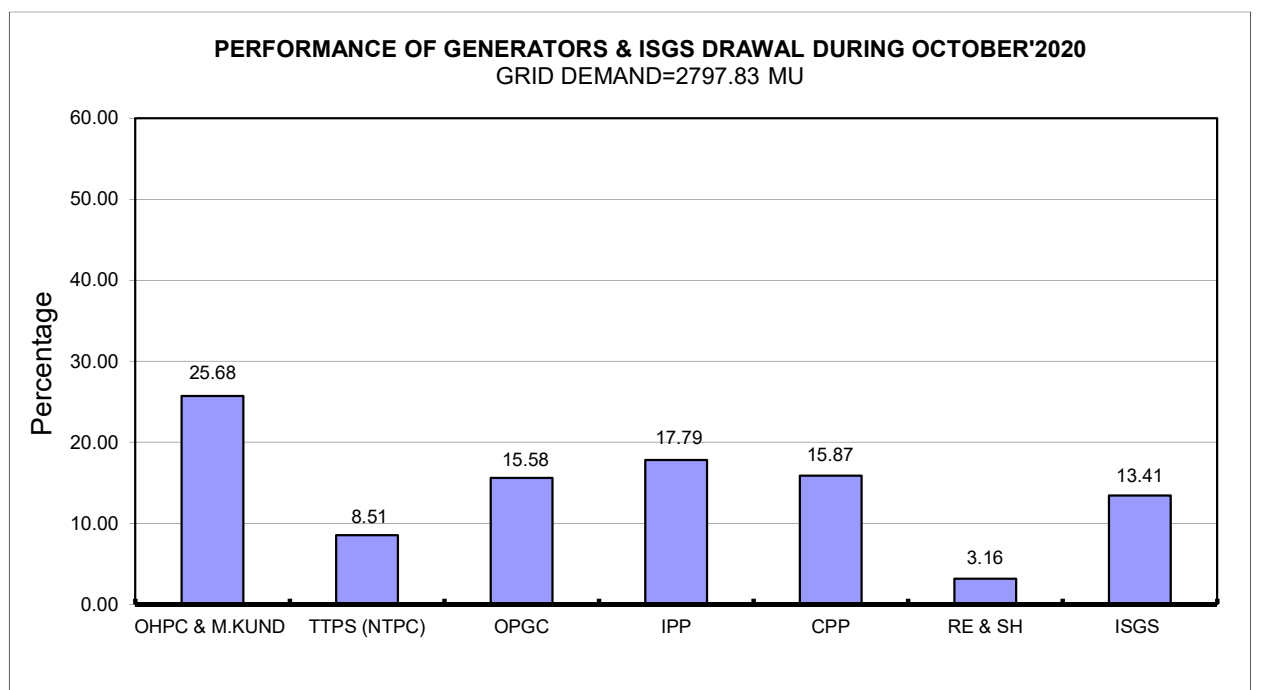
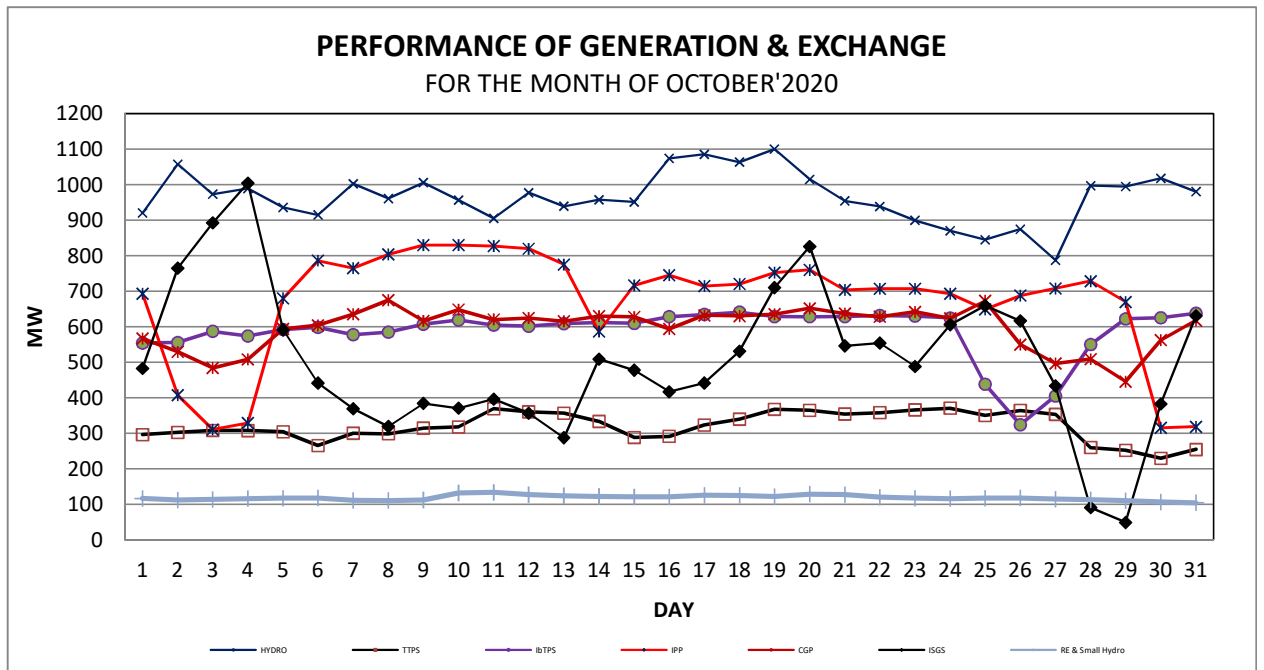
CAPACITY OF IPP, CPP, SMALL HYDRO & RENEWABLE

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
7	BTPL	3X8=24	24	SMALL HYDRO	132kV
	TOTAL		2991		

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
11	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	SMEL, (PANDOLI, SAMBALPUR)	3 X 30	90	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	9910		

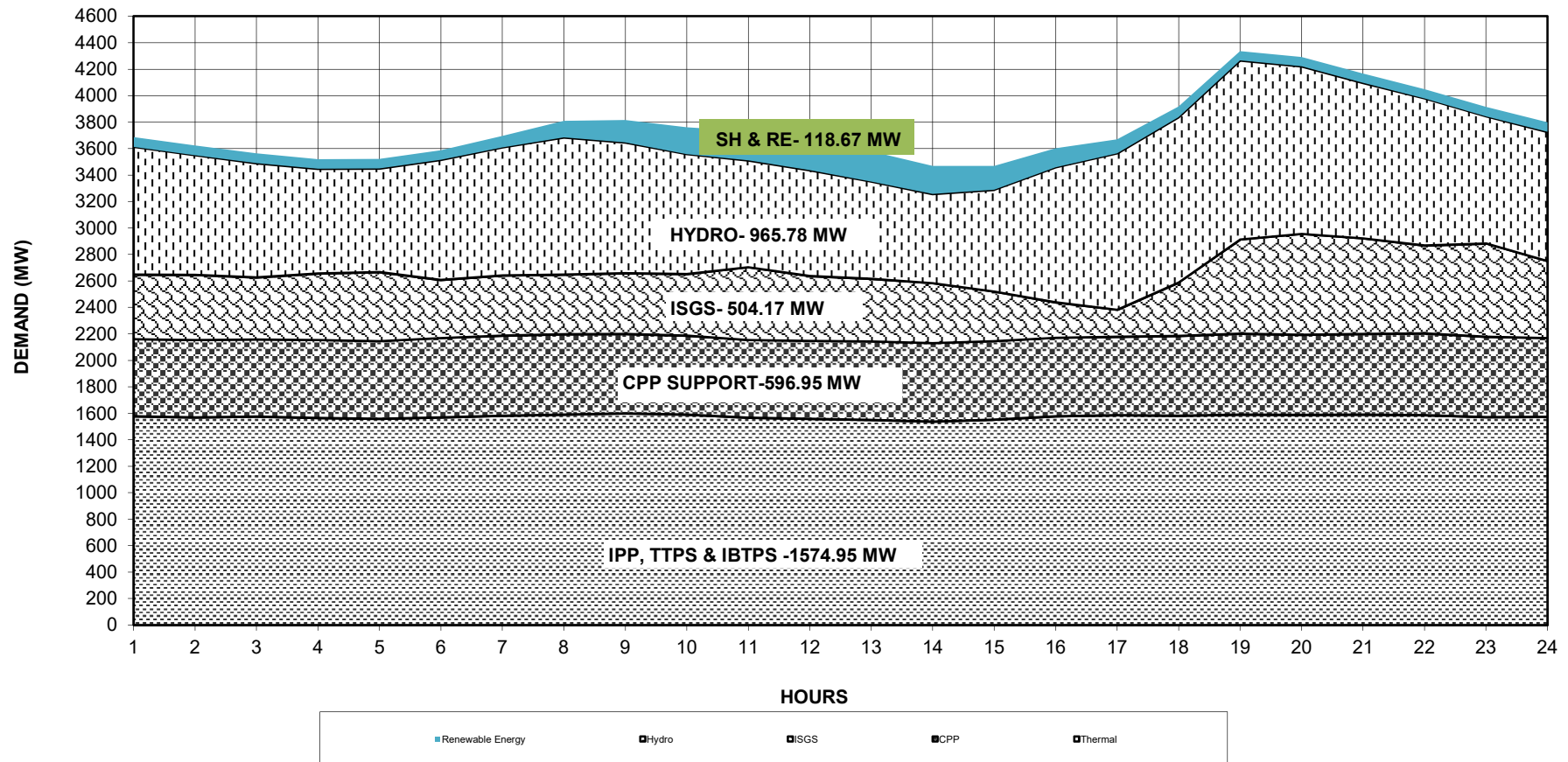
RENEWABLE PROJECTS

Sl.No	POWER STATION	INSTALLED CAPACITY	TOTAL	TYPE		CONNECTIVITY VOLTAGE
1	ABACUS HOLDINGS PVT. LTD, SONEPUR	1 MW	1	SOLAR		11 kV
2	AFTAAB SOLAR PVT. LTD. ,BOLANGIR (N)	5 MW	5	SOLAR		33 kV
3	ALEX GREEN ENERGY PVT LTD. PATNAGARH	5 MW	5	SOLAR		33 kV
4	JAY IRON & STEEL, BAMARA	1 MW	1	SOLAR		11 kV
5	J.K. PAPER LTD., THERUVALI	25 MW	25	BIOMASS		132 kV
6	M.G.M. GREEN ENERGY., CHANDPUR	1 MW	1	SOLAR		11 kV
7	MOLISATI VINIMAY PVT. LTD. BARKOTE	1 MW	1	SOLAR		11 kV
8	OCL SOLAR, SALIPUR	2.5 mw	2.5	SOLAR	SELF	132 kV
9	VIVACITY R.E PVT. LTD, CHANDPUR	1 MW	1	SOLAR		11 kV
10	RAAJRATNA ENERGY PVT. LTD. BOLANGIR (N)	1 MW	1	SOLAR		11 kV
11	S. N. MOHANTY, BARANGA, CHANDAKA	1 MW	1	SOLAR		11 kV
12	SHALIVAHAN GREEN ENERGY LTD.	20 MW	20	BIOMASS		132 kV
13	MAHAVIR FERRO ALLOYS (SOLAR), BANEI	1 MW	1	SOLAR		33 kV
14	MCL, BURLA, KATAPALI	2 MW	2	SOLAR	SELF	11 kV
15	ACME SOLAR, MURSING, BOLANGIR-SAINTALA	25 MW	25	SOLAR		132 kV
16	GEDCOL, MANMUNDA, SONEPUR	20 MW	20	SOLAR		33 kV
17	JYOTI SOLAR SOLUTIONS(P) LTD	10 MW	10	SOLAR		33 kV
18	SADIPALI SOLAR	20 MW	20	SOLAR		33 kV
19	BEL, SAINTALA	7.5 MW	7.5	SOLAR		132 kV
20	DAKSHIN ODISHA URGAL PVT. LTD, PADMAPUR	40 MW	40	SOLAR		132 kV
21	VENTO POWER& ENERGY LTD, Dendugoda, KESINGA	2x40 MW	80	SOLAR		132 kV
22	VENTO POWER& ENERGY LTD, Tusara	2x40 MW	80	SOLAR		132 kV
23	VENTO POWER& ENERGY LTD, Tentulikhunti	1x40 MW	40	SOLAR		132 kV
24	IMFA SOLAR, Theruvali	4.5 MW	4.5	SOLAR	SELF	33 kV
25	ADITYA BIRLA RENEWABLES LTD, BOUDH	25 MW	25	SOLAR		
26	ADITYA BIRLA RENEWABLES LTD, BARGARH(N	25 MW	25	SOLAR		33 kV
		TOTAL	444.5			



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

Average Demand=3760.52 MW



COMPARISON SYSTEM DEMAND WITH PREVIOUS FINANCIAL YEAR



MONTHLY GENERATION & DEMAND REPORT FOR THE STATE OF ODISHA IN THE MONTH OF OCTOBER- 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	34.126	22.956	23.569	0.000	0.000	0.000	0.000	80.651	108.402	0.256	110.94	8	11.00
2	Chipilima	14.263	13.351	12.671	-	-	-	-	-	40.285	54.147	0.110	63.40	16	13.00
4	Balimela	0.000	0.000	28.196	0.000	29.546	29.981	42.212	43.008	172.943	232.450	0.633	301.87	14	17.00
5	Rengali	35.605	29.458	35.188	30.567	29.360	-	-	-	160.178	215.293	0.123	245.68	15	23.00
6	Upper Kolab	24.618	23.590	0.000	14.935	-	-	-	-	63.143	84.870	0.334	232.29	17	17.00
7	Upper Indravati	61.144	37.314	51.666	33.828	-	-	-	-	183.951	247.246	3.508	605.85	28	8.00
8	Total Hydro (OHPC)	-	-	-	-	-	-	-	-	701.151	942.407				
9	Machhakund (Orissa drawal)	-	-	-	-	-	-	-	-	25.929	34.851		53.88	18	5.00
10	Total Hydro	-	-	-	-	-	-	-	-	727.080	977.258		1556.53	14	19.00
11	TTPS-I	26.691	21.206	18.916	43.000	-	-	-	-	109.813	147.598		174.65	11	6.00
12	TTPS-II	67.602	77.583	-	-	-	-	-	-	145.185	195.141		214.18	2	12.00
13	Total TTPS	-	-	-	-	-	-	-	-	254.998	342.739	30.454	380.49	12	6.00
14	IBTPS-I	130.02	124.054	-	-	-	-	-	-	254.076	341.500	28.460			
15	IBTPS-II	-	-	0.000	242.002	-	-	-	-	242.002	325.272	21.439	675.83	6.00	16.00
16	Total IBTPS	-	-	-	-	-	-	-	-	496.078	666.772				
17	IPPs & CGPs Support	-	-	-	-	-	-	-	-	956.718	1285.912				
18	Total Thermal & IPPs & CGP	-	-	-	-	-	-	-	-	1707.794	2295.423		2484.31	20	15.00
19	Injection by Renewable projects	37.68734	-	-	-	-	-	-	-	37.687	50.655				
20	Total self generation	-	-	-	-	-	-	-	-	2472.562	3323.335	85.315	3959.73	13	17.00

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

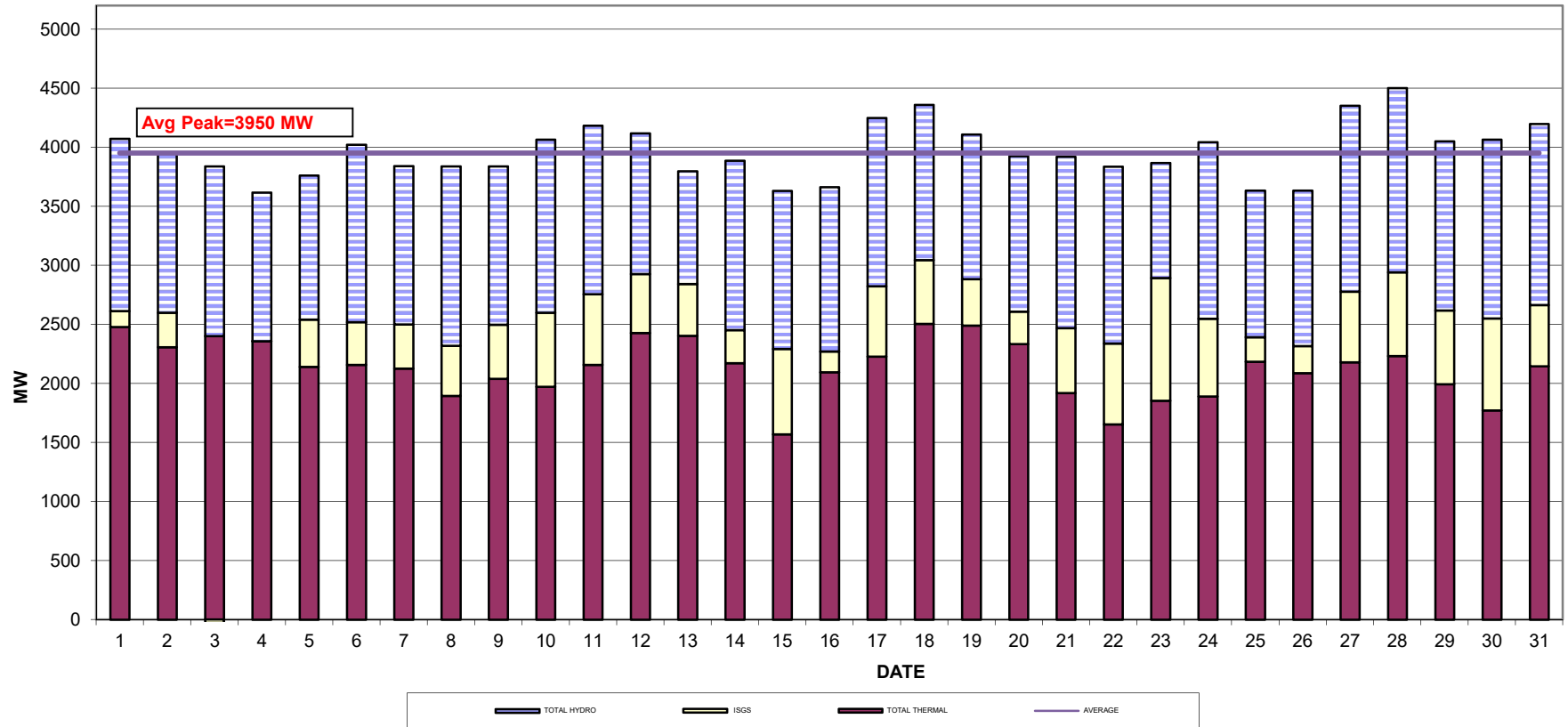
(B) IPPs / CGPs Injection :-

Sl. No.	Name of IPP / CGPs	Injection in (MU)	Average (MW)	Maximum Injection (MW)	DATE	TIME (Hr.)	Name of the Tie line	Net	Avg	Maximum	DATE	TIME	Maximum	DATE	TIME
								MU	MW	Import (MW)			Export (MW)		
1	Aarti Steel Ltd, ghantikhal	1.885	2.533	21.68	11	3.00	132KV JODA-KENDUPOSI	-13.43	-18.05	-6.84	24	24.00	-24.68	12	20.00
2	ACC	0.000	0.000				132KV KALABADIA-BANGIRIPOSI	39.51	53.11	74.45	11	20.00	15.42	28	15.00
3	Action Ispat	0.000	0.000				132KV KALABADIA-BARIPADA	18.35	24.66	36.45	9	20.00	9.10	4	14.00
4	Aryan Ispat,	0.000	0.000				132 KV BHOGRAI-KUCHEI	8.92	11.98	23.75	3	10.00	-0.13	21	13.00
5	BPPL	82.604	111.027	124.47	28	19.00	132 KV JALESWAR-KUCHEI	12.26	16.48	24.84	19	20.00	0.00	3	10.00
6	BPSL, Jharsuguda	19.661	26.426	138.33	5	16.00	220KV JODA-JAMSHEDPUR	-53.91	-72.46	0.00	14	12.00	-142.09	15	13.00
7	TBSL, Meramundali	16.518	22.201	76.92	8	12.00	220KV JODA-RAMCHANDRAPUR	31.22	41.97	79.43	20	20.00	-53.92	14	16.00
8	GMR Kamalanga Energy Ltd. (IPP)	233.999	314.515				220KV RENGALI SY- RENGALI P.G-I	1.47	1.98	57.42	27	7.00	-72.66	2	12.00
9	HINDALCO, Hirakud	0.830	1.115				220KV RENGALI SY- RENGALI P.G-II	1.18	1.59	73.31	27	7.00	-93.77	2	12.00
10	IFCO, Paradeep	0.0001	0.000				220KV JAYANAGAR JEYPORE PG-I	-54.00	-72.57	5.39	12	15.00	-204.84	7	12.00
11	IMFA , Choudwar	25.976	34.914	39.41	27	12.00	220KV JAYANAGAR JEYPORE PG-II	-56.24	-75.59	0.52	7	12.00	-176.51	12	15.00
12	JINDAL, New Duburi	5.674	7.627	23.72	8	13.00	220KV RENGALI P.H-KANIHA	-46.31	-62.24	14.49	27	7.00	-140.66	21	23.00
13	JSP, Angul	32.960	44.301	84.63	12	14.00	220KV TTPS-KANIHA	48.71	65.47	125.85	29	11.00	5.21	27	11.00
14	Mahavir Ferro Alloys	0.000	0.000				220KV MERAMUNDALI-KANIHA-I	56.87	76.44	127.49	29	18.00	40.38	7	7.00
15	Maitan Ispat Ltd.	0.000	0.000				220KV MERAMUNDALI-KANIHA-II	55.89	75.12	110.81	1	3.00	0.34	29	11.00
16	Meenakshi Power Ltd. (SH)	29.339	39.434				220KV TARAKARA-BISRA-I & II	34.17	45.93	118.79	29	10.00	-12.44	14	16.00
17	MSP, Jharsuguda	0.000	0.000				220 KV KALABADIA-BALASORE-I&II	82.08	110.32	255.98	9	13.00	36.13	13	17.00
18	NALCO , Angul	6.46	8.679	117.00	1	19.00	220KV KATAPALI- BOLANGIR(PG)	-54.47	-73.21	1.78	24	15.00	-135.90	14	4.00
19	Narbheram	0.066	0.089				220KV SADEIPALI - BOLANGIR(PG)	90.67	121.86	238.05	27	18.00	-47.34	10	11.00
20	NBVL , Kharag Prasad	6.898	9.271	40.08	13	19.00	220KV BUDHIPADAR-KORBA-I	-61.08	-82.10	2.54	21	1.00	-147.64	30	17.00
21	NINL , Duburi	0.000	0.000				220KV BUDHIPADAR-KORBA-II	28.31	38.05	93.90	14	4.00	-147.64	30	17.00
22	OCL	0.573	0.770				220KV BUDHIPADAR-KORBA-III	25.02	33.62	84.86	14	4.00	-24.18	29	17.00
23	OPCL, Samal (SH)	10.904	14.656				220KV ATRI- PANDIVIL	127.21	170.98	226.90	20	20.00	-24.84	29	17.00
24	BPPLT	14.892	20.017				220KVSAMANGHARA- PANDIVIL	0.00	0.00	0.01	5	10.00	46.18	3	15.00
25	PSAL, Keonjhar	0.000	0.000				220KV KEONJHAR 220KV KEONJHAR	2.10	2.83	7.00	28	20.00	0.00	28	20.00
26	RSP , Rourkela	0.000	0.000				220KV KEONJHAR 220KV KEONJHAR	1.98	2.66	7.00	28	20.00	0.00	28	20.00
27	Shree Ganesh	0.416	0.559				400KV INDRAVATI P.H-P.G	-47.03	-63.21	67.34	10	12.00	-254.10	7	19.00
28	Shyam Metallics	0.849	1.141				400KV MERAMUNDALI-KANIHA	438.00	588.71	882.04	12	23.00	78.61	14	4.00
29	SMC Power	0.033	0.045				400KV MERAMUNDALI-ANGUL-I&II	-69.41	-93.29	31.15	2	12.00	-190.67	27	23.00
30	TSPL	11.368	15.280				400KV MENDHASAL - PANDIABIL-I &II	-113.81	-152.97	3.23	1	8.00	-268.42	14	23.00
31	Vedanta Ltd. (IPP-Unit-2)	242.220	325.565				400KV DUBURI - PANDIABIL	-37.50	-50.40	-7.39	4	1.00	-153.68	1	5.00
32	Vedanta, Jharsuguda	210.440	282.849				400KV DUBURI - BARIPADA	-83.84	-112.68	27.81	5	8.00	-289.22	14	16.00
33	Vedanta, Lanjigarh	0.286	0.385				400KV VIDANTA-JHARSUGUDA Ckt-I	7.99	10.75	224.68	20	20.00	-234.22	28	17.00
34	VISA Steel, New-Duburi	0.876	1.177	7.60	8	17.00	400KV VIDANTA-JHARSUGUDA Ckt-II	8.08	10.85	224.83	20	20.00	-233.77	28	17.00
35	Yazdani Steel & Power Ltd., J.J Rd	0.863	1.160				400KV OPGC-JHARS PG - I	-27.21	-36.58	114.98	25	13.00	-218.69	28	17.00
36	Vedanta Ltd. (3*600)	0.131	0.176				400KV OPGC-JHARS PG - II	-26.91	-36.17	115.12	25	13.00	-217.93	28	17.00
	Total support from CPPs	956.718	1285.912				Net ISGS	374.87	503.85	1452.60	2	21.00	-218.69	28.00	17.00

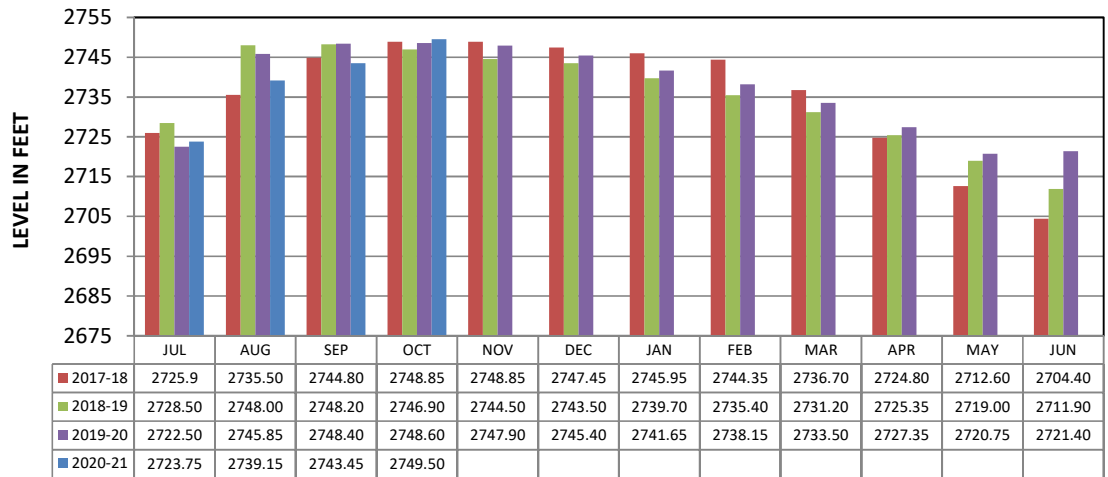
ABSTRACT OF SYSTEM DEMAND

Particulars	Energy MU	Average MW	Peak MW	DATE	TIME
Total gross generation(Including CPP+IPP)	2472.562	3323.335	3868.71	19	19.00
Power Station Auxiliary consumption	85.315	114.671			
Total net generation(Including CPP+IPP)	2387.246	3208.664	3855.40	19	19.00
Net ISGS	374.867	503.854	1192.93	19	19.00
System Demand	2762.114	3712.518	5048.32	19	19.00
Trading					
Average of Peak Demand (MW)		4343.116			
Average of Minimum Demand (MW)		3418.622			

DAILY GENERATION SHARING DURING PEAK DEMAND DURING OCTOBER- 2020

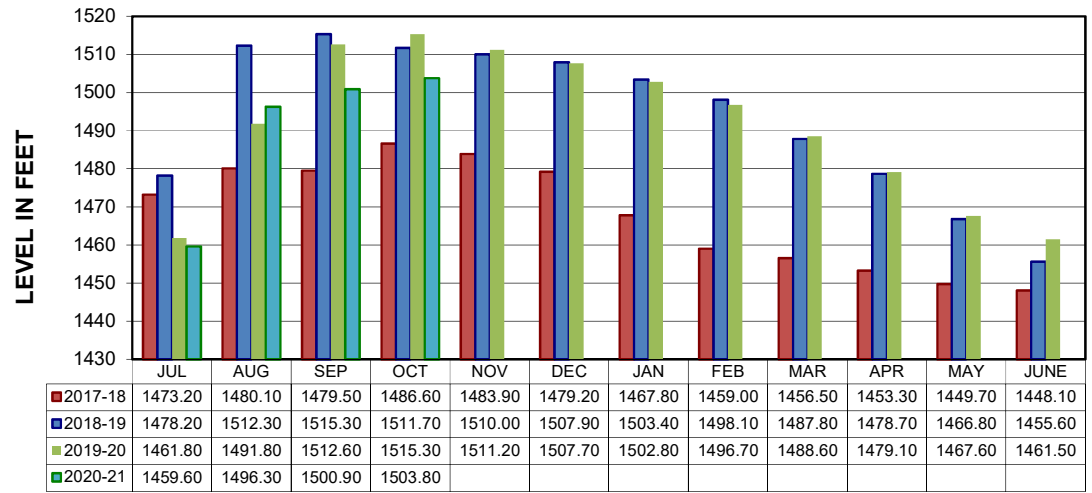


JOLAPUT RESERVOIR LEVEL



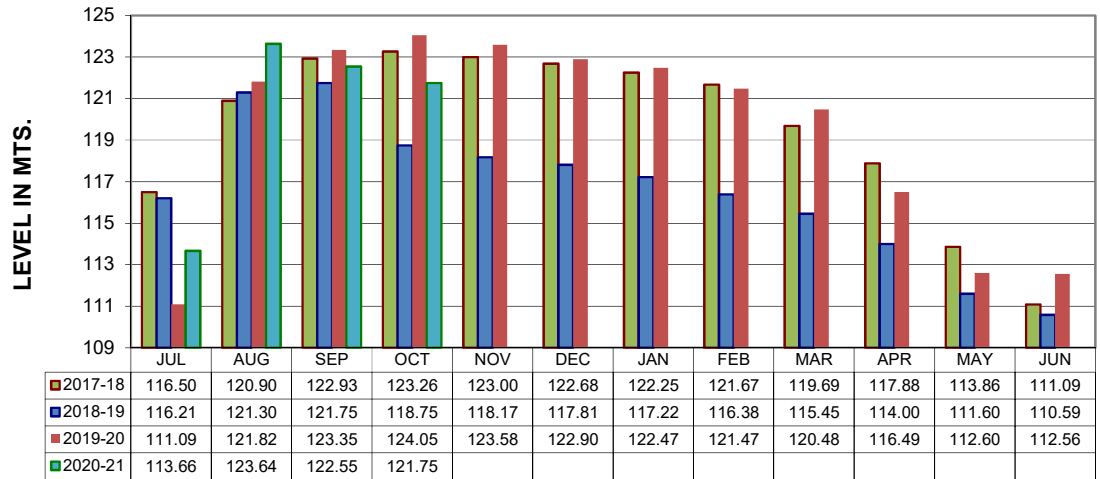
MONTH (End)

BALIMELA RESERVOIR LEVEL



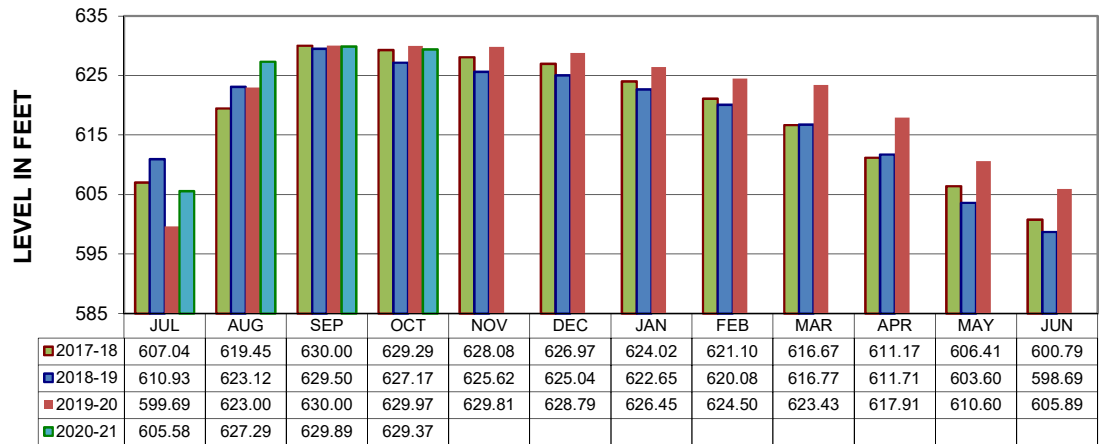
MONTH (End)

RENGALI RESERVOIR LEVEL



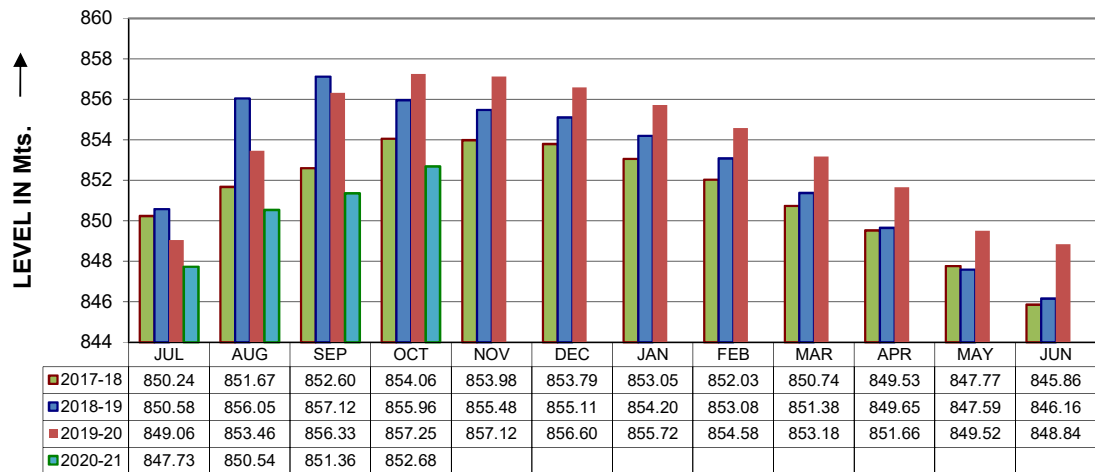
MONTH (End)

HIRAKUD RESERVOIR LEVEL



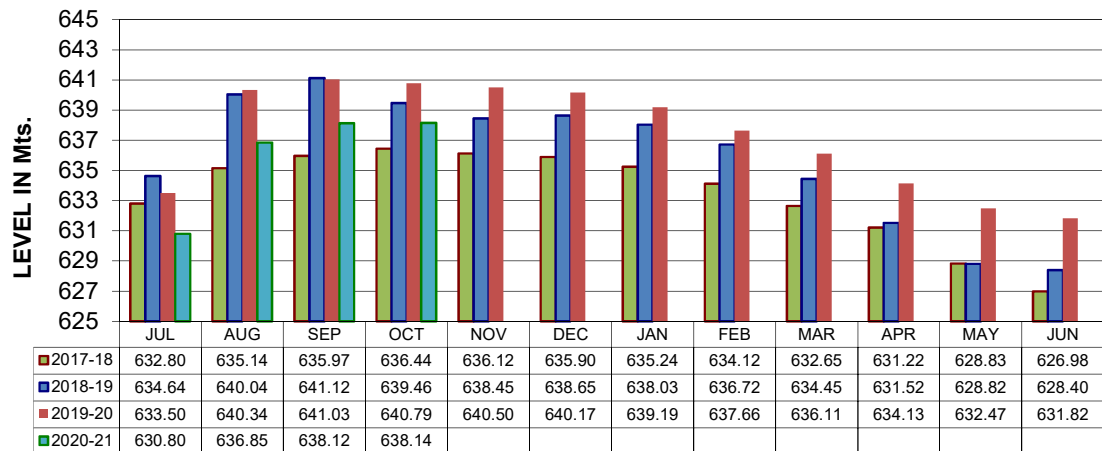
MONTH (End)

U.KOLAB RESERVOIR LEVEL



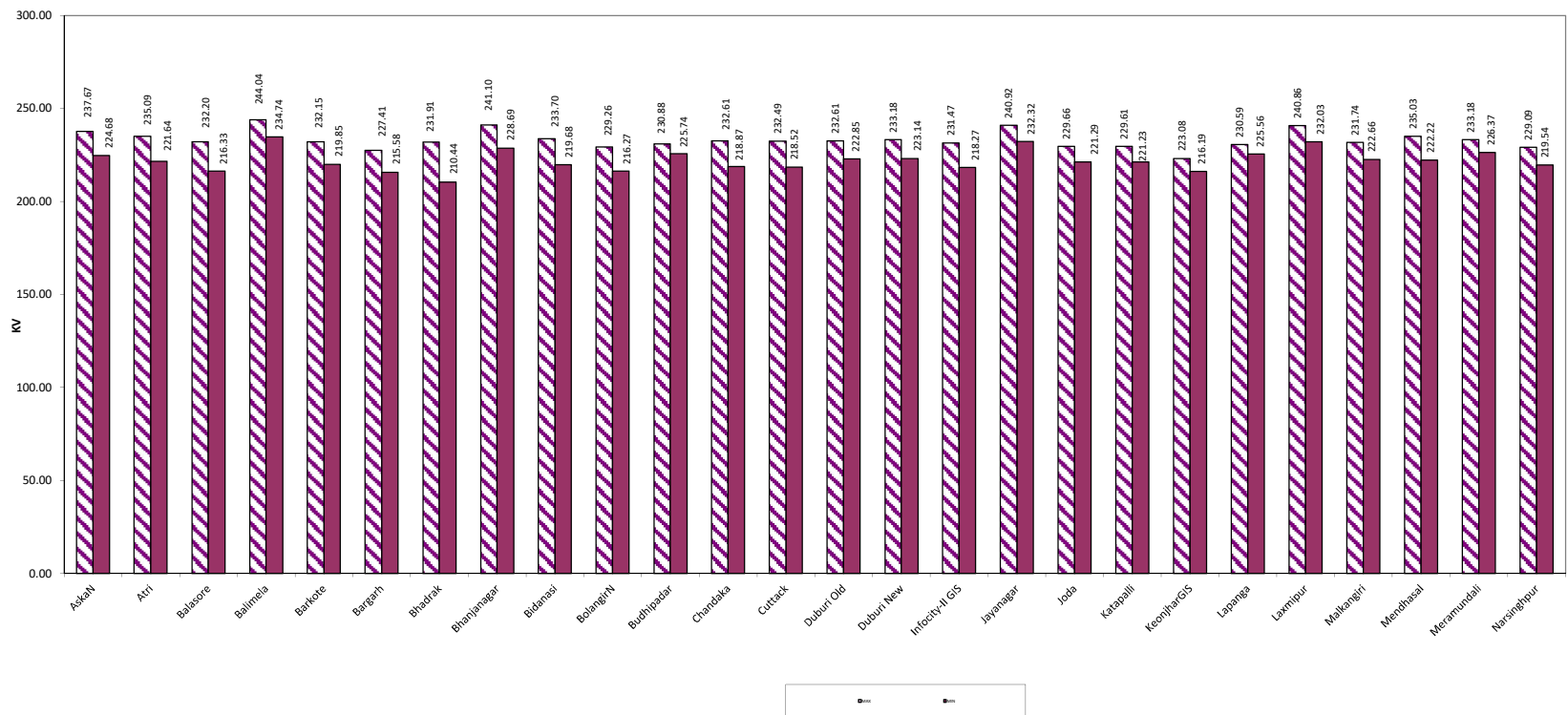
MONTH (End)

INDRAVATI RESERVOIR LEVEL



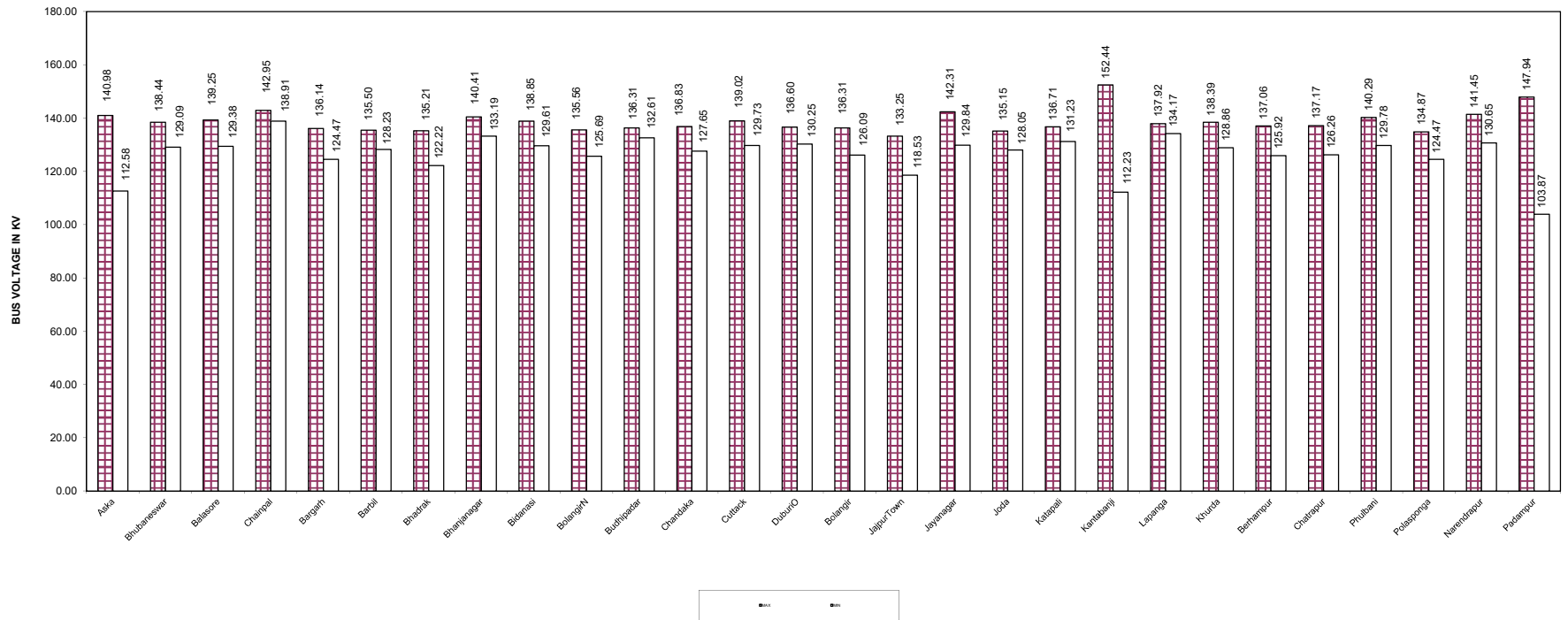
MONTH (End)

VOLTAGE PROFILE OF 220KV S/S FOR OCTOBER 2020

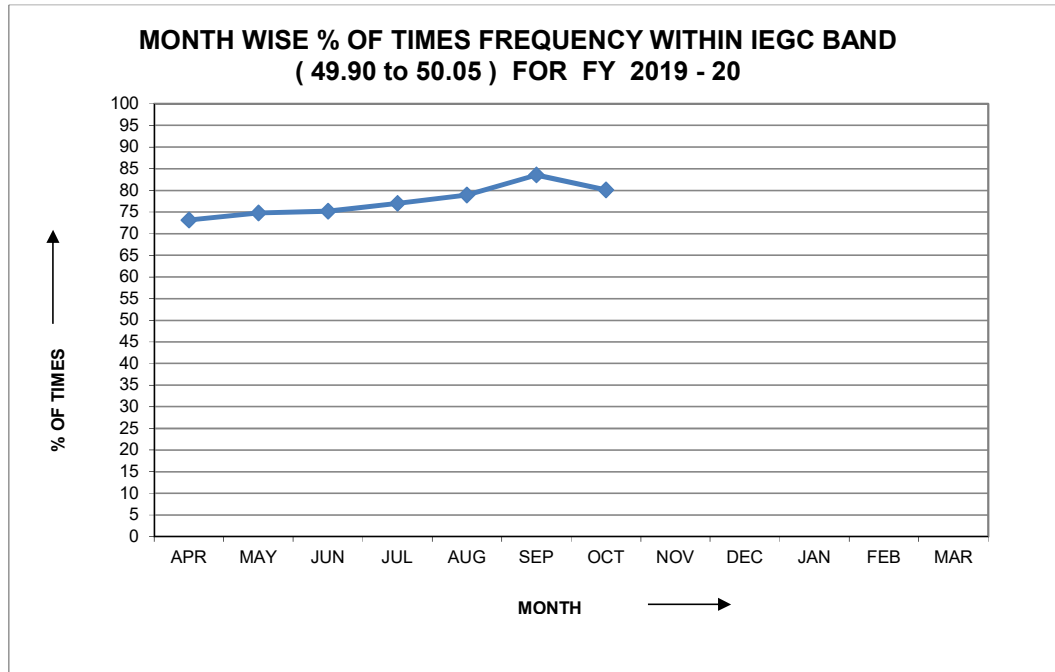


STATION	ATRI		BALASORE		BARKOTE		BARGARH(N)		BHADRAK		BHANJANAGAR		BIDANASI		BOLANGIR		BUDHIPADAR		CHANDAKA		CUTTACK		DUBURI		DUBURI (N)		JAYANAGAR		JODA		KATAPALI		LAPANGA		LAXMIPUR		MENDHASAL		MERAMUNDAL		NARENDRAPUR		NAYAGARH		PARADEEP		TARKERA		THERUVALI	
	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	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.	3	14:15	3	14:15	27	04:15	1	14:15	29	14:00	29	01:15	27	03:15	28	02:30	3	14:15	27	04:15	26	04:30	3	14:15	3	14:15	27	05:45	27	05:45	3	14:15	1	13:30	29	03:45	29	04:00	27	04:00	29	04:00	2	03:45	2	03:45	3	14:15	26
MINM.	9	18:15	9	18:30	9	12:15	10	17:45	13	12:00	9	18:45	9	12:15	19	17:45	9	18:30	9	18:45	9	19:15	7	18:15	9	18:30	10	19:00	10	19:00	7	18:15	10	17:45	9	18:45	9	18:45	10	19:00	9	19:15	9	18:15	10	17:45	9	18:30	1	01:30

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



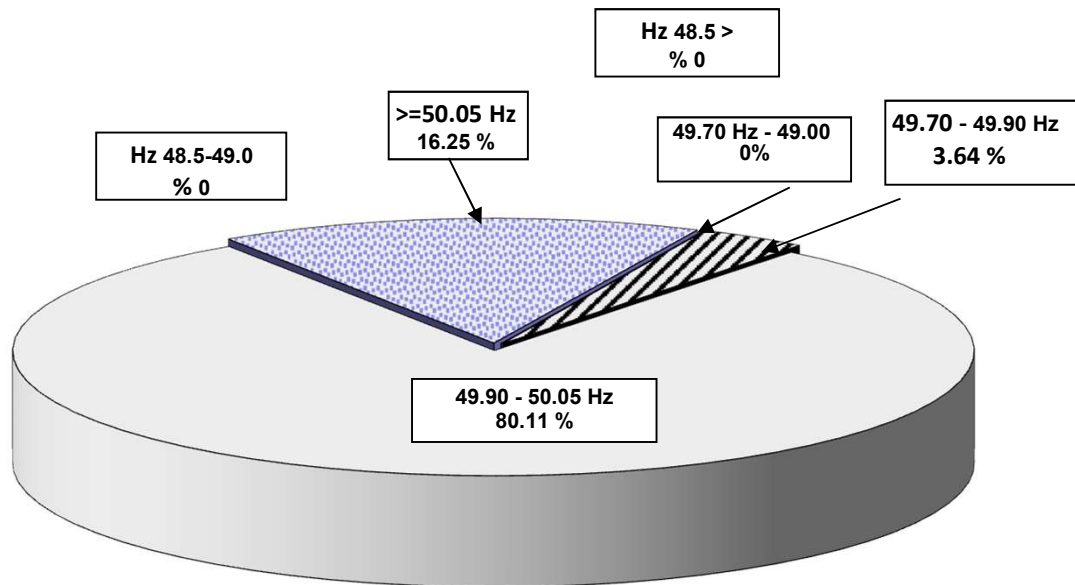
STN	CHATRAPUR		BALASORE		CHANGPAL		BARGARH (N)		BHADRAK		BHANUNAGAR		BIDANASI		BOLANGR		BUDHIPADAR		CHANDAKA		CUTTACK		DUBURI		KHURDA		JAYANAGAR		JODA		KATAPALI		LAPANGA		MANCHESWAR		PURI		MERAMUNDALI		NARENDRAPUR		BERHAMPUR		PARADEEP		TARKERA		THERUVALI		Bhubaneswar	
	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.
MAX	3	14:15	3	12:45	3	05:45	27	05:15	3	13:00	26	06:00	27	03:15	3	14:15	28	02:45	3	13:45	29	3:45	3	14:00	3	14:00	29	02:15	3	13:45	29	03:30	7	19:00	26	06:00	29	03:45	5	13:15	29	03:45	3	14:15	13	10:30	13	05:15	28	06:15	26	05:45
MIN	27	18:15	9	18:30	9	12:15	9	19:30	9	18:00	14	19:45	9	12:15	9	18:15	9	18:45	9	18:15	9	18:45	9	18:30	7	18:15	10	19:00	9	18:15	9	12:15	20	17:45	14	19:45	9	18:45	9	18:15	9	18:45	9	18:00	9	11:45	9	11:45	9	18:45	16	12:45



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

YEAR	FREQUENCY	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MARCH	ANNUAL
2018- 2019	Average in Hz	49.98	49.91	49.94	49.98	49.97	49.97	49.95	49.95	49.98	49.98	49.99	50	49.97
	% of time (49.9 to 50.05 Hz)	78.33	69.25	71.44	72.04	72.12	75.23	74.06	79.04	76.66	69.48	67.21	70.28	72.93
	% of time (above 50.05 Hz)	11.30	12.17	20.13	21.02	22.54	16.97	18.17	12.49	11.54	20.23	26.87	21.39	17.90
2019- 2020	Average in Hz	50.01	50.00	50.00	50.01	50.00	50.01	50.01	50.02	50.02	50.00	50.00	50.01	50.01
	% of time (49.9 to 50.05 Hz)	68.12	73.28	69.873	67.57	71.69	74.71	75.24	67.77	64.3	73.28	71.28	69.24	70.53
	% of time (above 50.05 Hz)	25.37	17.85	20.03	25.39	20.92	20.64	21.79	28.63	30.07	20.62	22.17	25.39	23.24
2020- 2021	Average in Hz	50.01	50.01	50.01	50.00	50.00	50	50.00						50.00
	% of time (49.9 to 50.05 Hz)	73.16	74.78	75.22	77.02	78.93	83.56	80.11						77.54
	% of time (above 50.05 Hz)	22.06	21.33	20.64	16.78	15.08	12.34	16.25						17.78

MONTHLY FREQUENCY PROFILE FOR OCTOBER 2020



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

Frequency/Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<48.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.5-49.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.00-49.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.7-49.9	3	46	14	0	101	65	56	57	44	25	8	18	16	7	93
49.9-50.05	1077	1167	1187	1136	1108	1061	1205	1145	1225	1209	1101	1055	1149	1083	1058
>50.05	360	225	239	304	230	314	179	238	171	206	331	367	275	350	289
>=50.1Hz	44	74	11	38	17	34	29	20	13	9	52	49	22	24	25

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	0	0	0	0	0	0	0
49.7-49.90	109	102	61	86	102	14	7	24	53	17	6	96	108	109	119	58	27
49.9-50.05	1145	1179	1170	1186	1167	1193	1208	1192	1181	1220	1122	1113	1143	1184	1193	1196	596
>50.05	186	157	209	168	171	233	225	224	206	203	312	231	189	147	128	186	121
>=50.10Hz	7	1	18	12	24	29	25	18	16	15	32	10	16	16	8	17	12

ENERGY DRAWAL OF TPCODL CONTROL AREA GRID SUBSTATIONS FOR THE MONTH OF OCTOBER'2020

Sl.No	Name of Sub Station	Name of Feeder	Installed Capacity	SMD	Average Drawal	MAX DEMAND			
						MW	Date	Time	
1	Angul	MCL Feeder-1&2	132 kV	29.750	22.839	31.463	9th Oct 2020	18:00	
		Angul	2x40+1x20=100	29.703	21.133	34.634	6th Oct 2020	18:15	
2	Angul PG	PGCIL Stn. Tertiary		0.138	0.153	0.138	1st Oct 2020	00:00	
	Arati Steel	Arati Steel	132 kV	0.025	7.940	29.213	30th Oct 2020	03:15	
3	Argul	Argul	2x40+1x20=100	13.180	8.423	25.800	13th Oct 2020	09:15	
4	Badagada	Badagada	2x63=126	23.931	17.713	27.381	10th Oct 2020	18:30	
5	Balugaon	SOLARI Traction	132kV	1.640	2.217	7.280	1st Oct 2020	18:00	
		Balugaon	1x40+1x20+1x12.5=72	33.966	23.983	34.657	9th Oct 2020	18:45	
6	Banki	Banki	2x20=40	11.548	8.291	13.080	11th Oct 2020	13:30	
7	Bhubaneswar	Bhubaneswar	3x63=189	77.200	58.344	84.360	9th Oct 2020	15:00	
8	Bidanasi	Bidanasi	2x63+1x40=166	60.964	46.472	67.818	11th Oct 2020	23:15	
9	Boinda	Boinda Traction	132 kV	0.160	1.590	13.400	18th Oct 2020	13:00	
		Boinda	1x20+2x12.5=45	17.788	11.948	20.894	20th Oct 2020	19:00	
10	BPPL S/W	BPPL Fdr-I&II	132 kV	0.000	0.000	0.000	1st Oct 2020	00:00	
11	Chainpal	FCI Feeder	132 kV	0.560	0.460	0.600	3rd Oct 2020	19:15	
		Talcher Rd. Trac.	132 kV	7.080	6.478	15.120	28th Oct 2020	07:30	
		Chainpal	2x40+1x20=100	57.152	34.558	60.440	9th Oct 2020	18:45	
12	Chandaka	Chandaka	3x63=189	79.606	58.900	81.721	9th Oct 2020	15:00	
13	Chandpur	Chandpur	2x12.5=25	12.338	8.976	12.702	9th Oct 2020	22:00	
14	Choudwar	Choudwar Traction	132 kV	4.840	4.931	14.960	11th Oct 2020	11:00	
		Choudwar	3x40=120	59.891	43.746	65.940	7th Oct 2020	13:00	
15	Cuttack	Cuttack	3x40=120	48.050	35.566	55.020	9th Oct 2020	14:00	
16	Dhenkanal	Joranda Trac.	132 kV	4.788	5.908	15.313	15th Oct 2020	00:30	
		Narveram CGP Fdr	33 kV	0.000	0.089	3.739	25th Oct 2020	06:45	
		Dhenkanal	3x40=120	46.668	32.063	48.131	9th Oct 2020	19:00	
18	Global	Heavy Water Feeder	132 kV	0.560	0.436	0.560	3rd Oct 2020	18:30	
		Global	1x20=20	0.000	0.000	0.000	15th Oct 2020	08:45	
17	Grid Steel AlloV S/W	GSAL Feeder	132kV	0.000	0.000	0.000	1st Oct 2020	00:00	
18	Hind Metalics	MGM Feeder	132kV	0.000	0.000	0.292	2nd Oct 2020	15:45	
		NBVL Fdr-1&2	132kV	0.000	0.001	0.063	5th Oct 2020	10:30	
		SGEL Feeder	132kV	0.050	0.038	0.100	19th Oct 2020	15:30	
		Meramundali Trac.	132 kV	3.113	4.972	14.200	27th Oct 2020	13:00	
19	Infocity-II GIS	Infocity-II GIS (220/33)	2x40=80	8.560	9.873	17.760	16th Oct 2020	18:45	
20	Jagatsinghpur	Gorakhnatn Trac.	132 kV	3.400	5.494	12.706	26th Oct 2020	21:15	
		Jagatsinghpur	1x40+2x20=80	39.063	26.844	39.663	9th Oct 2020	19:00	
21	Kalarangi	Kalarangi	1x20+2x12.5=45	15.950	9.617	15.950	9th Oct 2020	19:30	
22	Kamakhyanagar	Kamakhyanagar	1x20+2x12.5=45	19.300	14.303	19.788	8th Oct 2020	18:45	
23	Kendrapada	Kendrapada	2x40+1x12.5=92.5	32.040	23.397	33.640	9th Oct 2020	22:00	
24	Khajuriakata	Khajuriakata	2x40=80	7.324	4.761	7.568	9th Oct 2020	21:30	
25	Khuntuni GIS	Khuntuni GIS	2x40=80	6.040	2.764	6.200	20th Oct 2020	17:45	
26	Khurda	Kaipadar Trac.	132 kV	5.440	5.794	15.120	25th Oct 2020	09:30	
		Khurda	4x40=160	63.105	46.884	65.633	9th Oct 2020	20:30	
27	Konark	Konark	2x20=40	6.320	4.263	6.996	7th Oct 2020	19:30	
28	Mania	Mania	1x20+1x12.5=32.5	2.288	1.994	7.240	22th Oct 2020	12:45	
29	Marshaghai	Marshaghai	2x20=40	18.592	12.675	19.432	17th Oct 2020	21:15	
		Kendrapada Traction	132 kV	2.520	1.276	7.160	11th Oct 2020	10:45	
30	Mendhasal	Mendhasal(220/33)	2x20=40	2.044	0.992	2.112	9th Oct 2020	21:30	
31	Meramundali	BSL-TATA Fdr-1&2	220 kV	45.240	17.428	88.480	1st Oct 2020	07:45	
		BRG Feeder	132kV	0.400	1.357	10.040	28th Oct 2020	15:30	
		JSPL Feeder-1&2	400 kV	0.000	15.155	207.313	5th Oct 2020	03:30	
		RUNGTA Feeder	132kV	0.280	0.137	0.320	16th Oct 2020	18:30	
32	Narsinghpur	Narsinghpur(220/33)	1x40=40	4.164	3.138	4.704	17th Oct 2020	19:30	
33	Navagarh	Navagarh (220/33)	2x40+1x20=100	50.415	35.346	52.653	9th Oct 2020	21:45	
34	Nimapara	Nimapara	3x40=120	48.456	36.337	53.095	7th Oct 2020	19:30	
35	Nuapatana	Nuapatana	1x40+1x20+1x12.5=72	33.020	24.182	34.549	10th Oct 2020	09:30	
36	Olaver	Olaver	2x12.5=25	9.056	5.751	9.748	12th Oct 2020	21:15	
37	Pandiabil PG	PGCIL Stn. Tertiary		0.042	0.047	0.042	1st Oct 2020	00:00	
38	Paradeep	Essar Steel Fdr-1&2	220kV	0.000	0.001	1.088	24th Oct 2020	06:00	
		IFFCO Fder-1&2	132kV	6.400	3.106	9.040	2nd Oct 2020	21:15	
		IOCL Feeder	220kV	0.263	0.296	0.688	17th Oct 2020	17:00	
		PPL Fder-1&2	132kV	7.760	5.262	13.120	5th Oct 2020	09:30	
		PPT Fder-1&2	132kV	15.080	10.954	17.120	19th Oct 2020	20:15	
		Paradeep	3x20=60	18.498	16.374	24.055	7th Oct 2020	17:30	
39	Pattamundai	Pattamundai	2x20+1x12.5=52.5	26.703	19.528	29.182	9th Oct 2020	21:45	
40	Phulnakhara	Phulnakhara	1x40+2x20=80	33.739	23.853	34.555	17th Oct 2020	18:00	
41	Puri	Puri	3x40=120	34.844	27.224	43.989	20th Oct 2020	22:45	
42	Ranasinghpur	Ranasinghpur	3x63=189	70.730	54.399	78.599	10th Oct 2020	18:15	
43	Rengali PG	PGCIL Stn. Tertiary		0.041	0.045	0.041	1st Oct 2020	00:00	
44	Rengali S/W	Rengali S/W (220/33)	2x20=40	14.992	9.036	16.208	13th Oct 2020	19:45	
45	Salipur	OCL Feeder	132kV	8.734	6.924	9.822	17th Oct 2020	19:45	
		Salipur	3x20=60	31.329	21.609	31.545	9th Oct 2020	19:15	
46	Samangara	Samangara	2x20=40	0.024	0.016	0.048	16th Oct 2020	18:00	
47	Shamuka	Shamuka	2x31.5=63	23.480	17.127	34.440	6th Oct 2020	08:45	
48	Tirtol	Tirtol	2x40=80	11.600	7.800	11.680	9th Oct 2020	20:00	
49	TS Alloys S/W	RAWMET Feeder	132kV	22.381	22.311	24.288	10th Oct 2020	00:00	
50	Unit-8 GIS	Unit-8 GIS	2x40=80	13.061	9.223	26.615	7th Oct 2020	12:00	
		Balugaon	Khallikote Feeder	33kV	-16.060	-11.751	-18.908	15th Oct 2020	07:15
		Chandikhol	Badachana Feeder	33kV	15.402	10.693	16.212	9th Oct 2020	18:45
		Rairakhol	Bamur Feeder	33kV	0.924	2.045	4.004	9th Oct 2020	20:00
		Rengali	BUDHAPAL Feeder	33kV	-1.532	-0.903	-1.928	13th Oct 2020	18:00
		Barkote	Pallhara Feeder	33kV	2.591	1.920	7.522	13th Oct 2020	18:00
		Chandaka	S.N. Mohanty(Solar)	11kV	0.000	0.100	0.630	15th Oct 2020	09:30
		Chandpur	MGM SOLAR	11kV	0.000	0.089	0.672	9th Oct 2020	11:45
		Chandpur	VIVACITY Solar	11kV	0.000	0.092	0.585	9th Oct 2020	11:45
		TPCODL TOTAL ENERGY (MU)			1,388.7324	745.4547	1,931.8358		

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

SL.No	Name of Sub Station	Name of Feeder	Installed Capacity	SMD	Average Drawal MW	MAX DEMAND		
						MW	Date	Time
1	Aryan-Viraj S/W	Arvan Ispat Feeder	132 kV	0.000	0.070	2.191	25th Oct 2020	11:45
		Arvan-Viraj	132 kV	0.363	0.260	1.831	31th Oct 2020	23:45
2	Bamra	Bamra Traction	132 kV	3.400	6.902	16.720	21th Oct 2020	13:30
3	Barapalli	Dunguripali Tr.	132kV	3.800	2.578	9.560	5th Oct 2020	16:15
		Barapalli	1x40+1x20=60	38.616	28.477	46.416	10th Oct 2020	07:45
4	Bargarh	ACC Feeder-1&2	132kV	3.680	0.877	4.120	26th Oct 2020	16:45
		Bargarh	3x40=120	72.208	53.242	75.331	9th Oct 2020	17:00
5	Bargarh (New)	Bargarh (New)	2x12.5=25	0.000	0.033	0.120	4th Oct 2020	17:30
6	Barkote	Barkote (220/33)	2x40=80	14.733	9.821	19.474	11th Oct 2020	18:30
7	Bhalulata	Bhalulata Traction	132 kV	11.120	4.789	20.240	22th Oct 2020	07:30
8	Bhawanipatna	Lanjigarh Traction	132 kV	1.7944	1.778	11.3512	18th Oct 2020	0.1979
		Bhawanipatna	2x12.5=25	13.034	10.051	15.481	9th Oct 2020	19:30
9	Bolangir PG	415V side Tertiary		0.000	0.000	0.000	1st Oct 2020	00:00
10	Bolangir	Bolangir	3x40=120	55.625	37.238	64.264	10th Oct 2020	17:15
11	Bolangir (New)	Bolangir (New)	1x40+1x12.5=52.5	0.280	0.131	0.480	6th Oct 2020	17:15
12	Bonai	Bonai(220/33)	2x20=40	7.788	9.006	12.856	1st Oct 2020	18:15
13	Brajarainagar	Brajarainagar	1x40+3x20=100	33.506	28.210	58.104	3rd Oct 2020	20:00
14	Budhipadar	AAL Feeder-1&2	220 kV	2.400	3.700	56.520	6th Oct 2020	19:45
		Basundhara Fder	220 kV	3.281	2.295	3.688	13th Oct 2020	19:30
		BPSL Fedr-1&2	220 kV	57.156	23.263	100.719	14th Oct 2020	08:30
		MCL Fder-1&2	132 kV	19.772	16.616	22.638	5th Oct 2020	19:30
		MSP Feeder	132 kV	0.000	0.000	0.000	1st Oct 2020	00:00
		SPS(CONCAST) Fdr	220 kV	0.000	0.000	0.000	1st Oct 2020	00:00
		Budhipadar	1x20+1x12.5=32.5	9.025	7.972	17.847	12th Oct 2020	09:45
		Vedanta Ltd	220 kV	0.000	0.017	5.040	29th Oct 2020	00:00
15	Burla P.H.	Island & Incomer	11 kV	0.042	0.047	0.083	1st Oct 2020	00:00
16	Chandiposh	Chandiposh Trac	220 kV	6.560	6.251	19.440	8th Oct 2020	03:45
17	Chend	Adhunik Metallic Fdr.	132 kV	0.750	1.173	3.013	23th Oct 2020	12:15
		Nuagaon Trac.	132 kV	5.800	1.795	13.160	4th Oct 2020	10:30
		Sri Ganesh Metallics	132 kV	1.975	2.285	4.506	6th Oct 2020	14:30
		Chend	3x40=120	60.031	48.369	63.306	12th Oct 2020	19:15
18	Chipilima P.H.	Chipilima P.H.	1x20+1x12.5=32.5	22.527	16.668	24.732	19th Oct 2020	18:00
19	Ghens	Ghens	1x40=40	25.280	23.166	38.640	10th Oct 2020	08:45
20	Jayapatna	Megalift Feeder-I &II	132 kV	5.040	2.634	6.960	19th Oct 2020	13:00
		Jayapatna	1x40=40	5.826	3.884	12.118	7th Oct 2020	14:15
21	Jharsuguda	Jharsuguda Trac.	132 kV	18.680	13.982	25.760	4th Oct 2020	09:45
		Jharsuguda	2x40=80	20.800	16.038	23.800	16th Oct 2020	16:45
		Ultratech Feeder	132kV	6.704	9.245	12.268	23th Oct 2020	19:00
22	Junagarah	Junagarah	3x20=60	21.028	17.951	31.692	6th Oct 2020	19:00
23	Kalunga	Kalunga	2x40=80	65.280	49.976	79.177	20th Oct 2020	14:00
		Mahavir Ferro CGP	33 kV	0.000	0.000	0.000	1st Oct 2020	00:00
24	Kantabanji	Kantabanji Trac.	132 kV	0.520	1.532	8.800	20th Oct 2020	00:30
		Kantabanji	2x40=80	9.960	7.765	13.720	12th Oct 2020	16:15
	Katapali	HINDALCO Fdr-1&2	220 kV	7.160	8.204	39.524	5th Oct 2020	20:30
		Katapali	1x40+2x20=80	36.578	25.974	55.918	1st Oct 2020	18:30
26	Kesinga	POWMEX Fdr	132 kV	1.381	0.798	3.381	19th Oct 2020	11:00
		Kesinga Traction	132 kV	0.040	1.132	10.760	4th Oct 2020	03:45
		Kesinga	1x40+2x20=80	39.785	26.464	45.453	8th Oct 2020	18:30
27	Khariar	Khariar	2x40=80	32.360	25.029	33.720	9th Oct 2020	19:00
28	Kuchinda	Kuchinda	2x20=40	15.225	9.719	16.266	12th Oct 2020	18:15
29	Lapanga	Rengali Traction	132KV	0.760	4.592	12.760	28th Oct 2020	07:15
	Lapanga	Lapanga	1x20=20	8.904	7.505	10.736	19th Oct 2020	17:45
		Nuapada	2x20=40	9.512	7.612	11.468	1st Oct 2020	21:30
31	OPGC S/W Stn.	BGR Energy Ltd. Fdr	33 kV	0.010	0.011	0.010	1st Oct 2020	00:00
32	Padampur	Padampur	1x40+2x20=80	17.988	16.501	28.275	30th Oct 2020	11:45
33	Patnagarh	Patnagarh	1x40+2x20=80	27.398	16.847	29.925	9th Oct 2020	17:00
34	Rairakhol	Rairakhol Trac.	132kV	2.320	1.794	8.560	28th Oct 2020	10:45
		Rairakhol	3x12.5=37.5	9.788	6.007	10.984	9th Oct 2020	20:15
35	Rajgangpur	OCL Feeder	132kV	3.080	6.015	33.240	5th Oct 2020	18:15
		OISL Feeder	132kV	0.000	0.000	0.000	1st Oct 2020	00:00
		Rajgangpur Trac-1&2	132 kV	2.960	5.036	9.960	23th Oct 2020	09:30
		Rajgangpur	3x40=120	58.600	46.213	62.960	12th Oct 2020	18:30
36	Rourkela PG	PG Tertiary		0.000	0.000	0.002	1st Oct 2020	00:00
37	Rourkela	Rourkela Trac Tfr	1x12.5=12.5	0.000	0.000	0.000	1st Oct 2020	00:00
		Rourkela	1x40+3x35=145	49.520	39.702	51.200	3rd Oct 2020	19:30
38	Saintala	ORDNANCE Feeder	132 kV	1.720	1.341	3.560	7th Oct 2020	10:00
39	Sambalpur	Sambalpur	1x40+2x31.5=103	91.494	57.291	96.467	16th Oct 2020	17:45
		Shvam DRI Feeder	132 kV	2.294	1.845	12.081	24th Oct 2020	10:15
40	SMC S/W	SMC Power	132kV	1.181	7.618	14.825	30th Oct 2020	23:15
41	Sonepur	Sonepur	2x40+1x20=100	45.799	33.695	53.135	21th Oct 2020	18:15
42	Sundargarah PG	PG TERTIARY	33 kV	0.000	0.140	0.126	1st Oct 2020	00:00
43	Sundargarah	Sundargarah	1x40+2x20=80	26.228	21.035	35.668	6th Oct 2020	18:45
44	Tarkera	RSP Feeder-1&2	220 kV	96.313	104.382	152.938	18th Oct 2020	10:30
		RSP Feeder-3&4	220 kV	0.000	0.805	4.400	6th Oct 2020	11:15
45	Tusura	Tusura	1x40+1x20=60	19.080	11.513	24.456	12th Oct 2020	10:00
		Deogaon Tr.	132kV	1.960	2.934	10.120	31th Oct 2020	06:30
46	VAL Lanjigarh	Vedanta Al. fder-1&2	132 kV	3.319	2.657	11.288	12th Oct 2020	09:15
47	Vedanda S/W	Vedanta SEZ	400 kV	859.976	387.679	871.647	19th Oct 2020	17:45

	Barkote	Pallhara Feeder	33kV	-2.978	-1.956	-7.522	13th Oct 2020	18:00
	Joda	Joda-Tensa Feeder	33 kV	6.256	5.255	8.024	21th Oct 2020	19:15
	Rairakhol	Bamur Feeder	33 kV	-3.440	-2.056	-4.004	9th Oct 2020	20:00
	Rengali	BUDHAPAL Feeder	33kV	1.234	0.903	1.822	13th Oct 2020	18:00
	Sonepur	Manamunda Feeder	33 kV	-6.740	-8.325	-12.752	19th Oct 2020	18:30
	Tentulikhunti	Mukhiguda Fdr	33KV	1.752	1.221	2.231	9th Oct 2020	10:15
	ACME SOLAR	ACME SOLAR	132 kV	0.076	0.037	0.112	21th Oct 2020	17:15
	Bamra	Joy Iron Steel (Solar)	11 kV	0.000	0.072	0.368	4th Oct 2020	12:15
	Barkote	Molisati Solar	11 kV	0.000	0.090	0.507	30th Oct 2020	11:30
	Kesinga	SADIPALI Solar	33kV	0.000	4.090	21.160	17th Oct 2020	12:00
	Kesinga	Vento Power Solar -1	132 kV	0.080	0.049	0.120	1st Oct 2020	00:15
	Kesinga	Vento Power Solar -2	132 kV	0.040	0.029	0.080	1st Oct 2020	00:00
	Bonei	Mahavir Solar	33 kV	0.000	0.105	0.701	4th Oct 2020	12:00
	Padampur	Dakshin UPL solar	132kV	0.080	0.048	0.120	1st Oct 2020	00:00
	Patnagarh	ALEX Solar Pvt. Ltd.	33 kV	0.000	0.525	3.452	19th Oct 2020	12:15
	Patnagarh	JYOTI Solar	33 kV	0.000	1.950	9.932	4th Oct 2020	12:15
	Bolangir (New)	REHPL(Solar)	11kV	0.000	0.127	0.692	7th Oct 2020	10:15
	Saintala	BEL-OFBL Solar	132kV	0.020	0.015	0.036	2nd Oct 2020	03:00
	Sonepur	GEDCOL Solar	33 kV	0.000	2.400	11.916	17th Oct 2020	11:45
	Sonepur	ABACUS Holdings	11 kV	0.000	0.157	0.950	17th Oct 2020	11:45
	Tusura	Vento Power Solar-I	132 kV	0.040	0.043	0.120	1st Oct 2020	03:30
	Tusura	Vento Power Solar-II	132 kV	0.040	0.031	0.080	1st Oct 2020	00:15
	Bargarh	Aditya Solar Fdr-I & II	33 kV	0.000	0.021	0.089	22th Oct 2020	17:45
		WESCO TOTAL ENERGY (MU)		2,097.5753	1,362.9916	1,980.0861		

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

Sl.No	Name of Sub Station	Name of Feeder	Installed Capacity MVA	SMD MW	Average Drawal MW	MAX DEMAND		Time
						MW	Date	
1	Agarpada	Agarpada	1x40=40	1.760	1.452	2.520	10th Oct 2020	19:30
2	Anandpur	Anandpur	1x20+2x12.5=45	19.085	13.461	23.031	16th Oct 2020	18:15
3	Arya Ispat S/w	ARYA Steel Fdr	132kV	6.580	4.394	8.548	24th Oct 2020	06:30
		BRPL Feeder	132kV	13.931	11.912	10.680	7th Oct 2020	18:30
		IMTCPL Fder	132kV	0.000	0.000	0.000	1st Oct 2020	00:00
4	Balasore	BIRLA Tyre Fder	132kV	0.628	1.703	6.380	31th Oct 2020	23:30
		ISPAT Feeder	132kV	0.000	0.000	0.000	1st Oct 2020	00:00
		Balasore Traction	132kV	10.720	7.049	17.200	29th Oct 2020	23:00
		Balasore	2x63+1x40=166	74.959	56.657	86.251	8th Oct 2020	18:30
5	Bangiriposi	Bangiriposi	2x12.5=25	12.224	8.971	12.876	11th Oct 2020	18:45
6	Barbil	Barbil	2x12.5=25	11.375	8.652	11.684	12th Oct 2020	19:15
7	Baripada PG	Baripada PG Stn.		0.087	0.097	0.087	1st Oct 2020	00:00
8	Baripada	Baripada	3x40=120	33.634	24.551	37.453	9th Oct 2020	19:00
9	Basta	Basta	2x20+1x12.5=52.5	21.648	14.908	24.128	8th Oct 2020	18:15
10	BC Mohanty S/w	Bamnipal(New) Fdr	132kV	19.640	18.293	21.080	13th Oct 2020	09:30
		BC Mohantv fdr	132 kV	4.132	3.829	4.656	1st Oct 2020	01:30
		TOMKA Traction	132kV	4.240	2.999	13.480	6th Oct 2020	02:15
11	Betanati	Betanati	1x20=20	9.856	7.374	11.236	17th Oct 2020	18:30
12	Bhadrak	Dhamra Port (Trac.)	132 kV	3.375	2.973	6.600	17th Oct 2020	03:45
		Dhamra Port Fder	132 kV	9.188	7.306	13.013	7th Oct 2020	16:45
		FACOR Feeder	132kV	0.000	0.022	8.720	1st Oct 2020	11:30
		FACOR Power	132kV	0.000	0.022	3.480	1st Oct 2020	10:45
		Bhadrak Traction	132 kV	4.240	3.425	11.520	4th Oct 2020	12:00
		Bhadrak	2x63+1x40=166	71.080	50.912	75.840	9th Oct 2020	21:30
13	Bhograi	Bhograi	2x40=80	10.760	8.990	16.120	9th Oct 2020	21:30
14	Bolani	Bolani(132/11)	2x10=20	2.940	2.399	4.456	8th Oct 2020	07:45
15	BRPL S/w	BRPL Feeder	132kV	13.931	11.912	16.300	8th Oct 2020	19:45
		Mesco Feeder	132kV	0.000	0.001	0.013	1st Oct 2020	19:30
16	Chandabali GIS	Chandabali GIS	1x40+1X20=60	9.512	6.949	10.972	13th Oct 2020	20:15
17	Chandikhol	Chandikhol	3x20=60	35.245	25.124	41.823	9th Oct 2020	18:30
18	Dhenkikote	Dhenkikote	1x20=20	4.340	3.203	4.788	8th Oct 2020	18:45
19	Duburi	Jakhpura Traction	132 kV	8.000	8.494	15.600	9th Oct 2020	11:15
		JFAL Feeder	132 kV	0.000	0.000	0.000	1st Oct 2020	00:00
		Mishrilal Feeder	132 kV	6.281	6.255	7.069	1st Oct 2020	09:00
		NINL Feeder	220 kV	1.088	1.195	1.450	31th Oct 2020	13:30
		Duburi(220/33)	2x40=80	21.748	15.977	23.516	17th Oct 2020	18:15
		Emami Feeder	220 kV	10.360	3.319	11.840	20th Oct 2020	00:30
20	Duburi-New	Jindal Stainless-1&2	220 kV	9.400	12.475	70.560	11th Oct 2020	10:15
		Maithan Feeder	220 kV	0.000	0.000	0.000	1st Oct 2020	00:00
		Rohit Ferrotech	220 kV	21.520	12.290	25.480	24th Oct 2020	02:15
		TATA Steel Fdr-1&2	220 kV	8.000	6.493	126.720	22th Oct 2020	17:00
		VISA Steel	220 kV	0.400	1.988	19.480	31th Oct 2020	00:45
		Jaganath Steel Fdr	132kV	0.019	0.031	1.781	15th Oct 2020	13:15
		RAMCO Feeder 132kV	132 kV	4.287	1.376	4.588	19th Oct 2020	16:30
21	Jaipur Road	Jaipur Road	3x40=120	40.960	28.394	50.480	7th Oct 2020	18:45
		Yazdani CGP Feeder	33 kV	0.871	1.160	4.739	21th Oct 2020	19:15
22	Jaipur Town	Jaipur Town	2x40+1x20=100	42.106	33.442	51.946	7th Oct 2020	19:30
23	Jaleswar	Jaleswar Trac.	132 kV	9.680	4.674	13.680	28th Oct 2020	03:30
		Jaleswar	2x31.5+1x12.5=75.5	21.156	15.138	23.264	17th Oct 2020	20:30
24	Joda	Bansapani Trac.	132 kV	8.338	6.988	15.388	26th Oct 2020	00:15
		FAP Feeder	132kV	14.563	14.820	15.834	31th Oct 2020	21:15
		JSPL Trf-	2x50+1x20=120	59.010	51.435	59.685	19th Oct 2020	19:30
		TATA STEEL	220kV	8.000	6.493	8.760	26th Oct 2020	19:45
		TATA Steel Long	220 kV	0.000	0.000	0.440	16th Oct 2020	05:30
		Joda	1x40+3x20=100	17.350	13.772	19.804	13th Oct 2020	19:00
		Sarada Ind (220/33)	1x15=15	6.563	4.841	8.250	1st Oct 2020	04:45
25	JSW Cement S/W	JSW Cement Fdr	132kV	0.680	2.102	5.680	21th Oct 2020	04:45
26	Karanjia	Karanjia	1x20+2x12.5=45	16.972	12.489	18.353	15th Oct 2020	20:00
27	Keonihar GIS	Keonihar GIS	2x20=40	10.892	6.861	16.832	28th Oct 2020	18:30
28	Keonihar PG	PGCIL Stn. Tertiary		0.172	0.192	0.172	1st Oct 2020	00:00
29	Nalda	Nalda Traction	132 kV	1.600	3.140	10.560	3rd Oct 2020	18:30
30	Polasponga	ESIL Feeder	132 kV	8.400	10.543	20.938	10th Oct 2020	20:15
		MSP Feeder	132 kV	12.924	12.025	14.400	27th Oct 2020	23:45
		OSISL CGP Feeder	33 kV	0.000	0.000	0.004	3rd Oct 2020	19:15
		Patnaik Steel CGP	33 kV	0.000	0.000	0.000	1st Oct 2020	00:00
		Palasponga Trac.	132 kV	7.213	6.812	19.513	6th Oct 2020	06:45
		Polasponga	1x40+2x20=80	27.888	20.664	27.908	13th Oct 2020	18:15
31	Rairangpur	Rairangpur	2x20+1x12.5=52.5	21.866	14.882	22.784	10th Oct 2020	19:15
32	Somnathpur	IMAMI Feeder	132 kV	0.019	0.219	3.200	16th Oct 2020	19:00
		Stork Feeder	132 kV	7.753	3.301	10.297	28th Oct 2020	01:30
		Somnathpur	2x12.5=25	3.912	3.112	4.508	10th Oct 2020	15:45
33	Soro	Soro	1x40+2x20=80	48.308	34.560	54.893	9th Oct 2020	20:15
34	Udala	Udala	1x40=40	14.400	13.437	6.105	16th Oct 2020	22:15
	Chandikhol	Badachana Fder	33kV	-14.729	-10.693	-17.581	9th Oct 2020	18:45
	Joda	Joda-Tensa Fdr	33 kV	-6.812	-5.255	-8.724	21th Oct 2020	19:15
		NESCO TOTAL ENERGY (MU)		890.2643	496.0674	1295.1285		

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

Sl.No	Name of Sub Station	Name of Feeder	Installed Capacity MVA	SMD MW	Average Drawal MW	MAX DEMAND		Time
						MW	Date	
1	Akhusingi	Akhusingi	2x12.5=25	12.089	9.042	13.581	20th Oct 2020	18:45
2	Aska	Aska	4x40=160	50.680	37.072	61.680	17th Oct 2020	07:45
		Aska New(220V/33)	1x40=40	9.640	7.085	11.480	20th Oct 2020	18:00
3	Balimela	Balimela (220/33)	1x40+1x20=60	11.972	8.794	13.772	6th Oct 2020	18:30
4	Berhampur	Berhampur	2x40+1x20=100	47.653	37.711	50.681	9th Oct 2020	23:00
5	Bhanjanagar	Bhanjanagar	2x40+1x16=96	30.740	21.246	31.764	8th Oct 2020	18:00
6	Boudh	Boudh	2x20=40	8.996	4.181	9.708	15th Oct 2020	18:45
7	Chatrapur	IRE Feeder-1&2	132kV	6.538	6.890	9.481	9th Oct 2020	00:15
		Rambha Traction	132 kV	3.600	2.905	9.080	1st Oct 2020	22:15
		Chatrapur	3x20=60	18.146	14.860	25.345	22th Oct 2020	07:30
8	Chikiti	Chikiti	1x40=40	10.400	7.840	11.200	9th Oct 2020	21:30
9	Dabugaon	Dabugaon	2x12.5=25	13.188	7.615	13.456	6th Oct 2020	19:15
10	Digapahandi	Digapahandi	2x20+1x12.5=52.5	25.681	17.872	27.738	16th Oct 2020	07:30
11	Ganjam	GRASIM Ind. Ltd.	132kV	18.050	16.751	18.488	4th Oct 2020	03:00
		Ganjam	2x12.5=25	7.688	5.500	19.004	18th Oct 2020	17:45
12	Jaypur PG	Jaypur PG Ter.	28KV	0.072	0.086	0.072	1st Oct 2020	00:00
13	Jayanagar	Jaypur Trac.	132 kV	5.800	8.442	27.080	6th Oct 2020	22:15
		Jayanagar	2x20+1x12.5=52.5	25.204	18.508	27.460	17th Oct 2020	19:15
14	Laxmipur	Laxmipur	1x20=20	6.512	4.880	9.984	29th Oct 2020	07:15
		Utkal Alumina Fdr-I&II	220kV	0.080	0.223	16.680	2nd Oct 2020	12:30
15	Malkangiri	Malkangiri (220/33)	2x40=80	13.840	8.415	15.240	18th Oct 2020	18:30
16	Meenakshi s/w	Megalift Feeder	33kV	0.004	0.029	0.416	18th Oct 2020	09:30
17	Mohana	Mohana	2x12.5=25	6.224	4.205	7.184	17th Oct 2020	18:00
18	Muniguda	Bissam-Cuttack Tr	132 kV	5.600	3.536	17.040	22th Oct 2020	20:30
19	Narendrapur	TATA Feeder-I&II	220 KV	#NA	0.000			
		Narendrapur Trac	132 kV	3.680	3.325	10.880	8th Oct 2020	17:30
		Narendrapur	3x40+1x20=140	31.384	23.667	34.116	9th Oct 2020	22:45
20	Paralakhemendi	Paralakhemendi	3x12.5=37.5	14.320	10.625	14.836	7th Oct 2020	20:15
21	Phulbani	Phulbani	2x40+1x12.5=92.5	26.584	17.833	28.732	30th Oct 2020	18:15
22	Podagada	Podagada	1x12.5=12.5	1.440	1.324	3.044	23th Oct 2020	07:00
23	Potangi	Potangi	1x40=40	3.680	2.091	5.148	8th Oct 2020	08:30
24	Purushottampur	Purushottampur	1x20+2x12.5=45	14.712	10.146	16.506	12th Oct 2020	07:15
25	Rayagada	Rayagada Trac.	132 kV	2.360	3.223	16.400	31th Oct 2020	10:30
		Rayagada	2x12.5=25	12.620	9.683	14.164	17th Oct 2020	16:15
26	Sunabeda	HAL Feeder	132kV	10.132	5.276	11.080	14th Oct 2020	17:45
		Sunabeda	1x20+2x12.5=45	21.756	15.880	25.492	12th Oct 2020	08:15
27	Tentulikhunti	Tentulikhunti	3x20=60	13.209	8.827	17.880	17th Oct 2020	18:30
28	Therubali	JK Feeder	132kV	0.000	0.028	6.444	27th Oct 2020	04:45
		Therubali	2x12.5=25	12.212	8.407	13.356	10th Oct 2020	18:00
29	Umerkote	Umerkote	2x20=40	16.752	12.503	18.716	19th Oct 2020	18:00
		Khallikote Feeder	33kV	17.384	11.751	18.908	15th Oct 2020	07:15
	Sonepur	Manamunda Feeder	33kV	11.256	8.303	12.752	19th Oct 2020	18:30
	Tentulikhunti	Mukhiguda Fdr	33KV	-2.212	-1.221	-2.412	9th Oct 2020	10:15
	Tentulikhunti	Vento Energy Solar	132 kV	0.080	0.041	0.120	1st Oct 2020	00:00
30	Boudh	Aditya Birla Solar-I	33kV	0.000	5.584	25.142	16th Oct 2020	12:15
		SOUTHCO TOTAL ENERGY (MU)		549.7451	295.9082	738.9168		

AUTO TRANSFORMER LOADING FOR THE MONTH OF OCTOBER'2020

Name of the 220 kV Sub-Station (Feeding Sub-stations/Feeders)	Capacity	Drawal details							REMARKS
		MVA	Maximum			Minimum			
			MW	Day	Time	MW	Day	Time	
ATRI { Banki, Khurda, Chandpur & Argul }	2x160	77.28	20th Oct 2020	14:15	0.88	3rd Oct 2020	14:00		
ASKA NEW	2x160	77.32	20th Oct 2020	14:15	1.00	3rd Oct 2020	14:00		
		45.24	29th Oct 2020	09:15	0.04	17th Oct 2020	05:45		
		44.68	29th Oct 2020	09:15	0.04	17th Oct 2020	05:45		
BALASORE 220/132 KV { Balasore, Birla Tyre(I), Ispat Alloy(I), Jaleswar, Jaleswar(T) }	3x160	66.76	13th Oct 2020	20:15	27.48	2nd Oct 2020	12:45		
		66.24	13th Oct 2020	20:15	27.32	2nd Oct 2020	12:45		
		66.00	13th Oct 2020	19:15	13.92	8th Oct 2020	14:15		
BARGARH 220/132 kV	1x100	22.20	21st Oct 2020	18:00	0.12	28th Oct 2020	09:15		
	1x160	12.76	21st Oct 2020	18:00	0.08	24th Oct 2020	13:45		
BHADRAK 220/132 KV {Bargarh, Ghensh }	1x100	33.40	8th Oct 2020	13:00	9.12	7th Oct 2020	09:15		
	1x160	59.56	8th Oct 2020	13:00	16.80	7th Oct 2020	09:15		
	1x160	59.56	8th Oct 2020	12:45	16.72	7th Oct 2020	09:15		
	1x160	114.36	23rd Oct 2020	07:15	9.92	30th Oct 2020	11:15		
BHANJANAGAR 220/132 KV { Bhanjanagar, Aska, Phulbani, Ganjam, Chatrapur }	1x160	59.72	18th Oct 2020	18:15	9.64	13th Oct 2020	15:00		
BIDANASI 220/132 KV {Bidanasi, Khurda }	1x100	26.76	12th Oct 2020	19:15	0.04	8th Oct 2020	01:30		
	1x100	17.64	12th Oct 2020	18:15	0.08	8th Oct 2020	00:30		
	1x160	38.12	12th Oct 2020	19:15	0.24	8th Oct 2020	01:30		
BOLANGIR (SADAIPALLI) 220/132 KV { Bolangir, Patnagarh, Sonepur, Saintala, Khariar, Barpalli }	2x160	99.72	12th Oct 2020	18:15	7.84	28th Oct 2020	12:30		
		99.72	12th Oct 2020	18:15	7.84	28th Oct 2020	12:30		
		104.80	19th Oct 2020	18:15	8.28	28th Oct 2020	12:30		
BUDHIPADAR 220/132 KV { Jharsuguda, Jharsuguda Tr, Cemco(I), MCL, Sundergarh, Brajarajnagar, Rajgangpur }	2x160	116.96	11th Oct 2020	18:30	43.08	29th Oct 2020	04:00		
		108.68	25th Oct 2020	12:15	0.04	11th Oct 2020	18:30		
CHANDAKA 220/132 KV { Chandaka, Bhubaneswar, Nimapada, Ransinghpur, Puri, Kesura, Kaipadar Tr. }	1x100	43.88	7th Oct 2020	19:00	12.40	3rd Oct 2020	12:45		
	1x160	95.36	10th Oct 2020	12:45	21.28	3rd Oct 2020	12:45		
	1x100	59.52	10th Oct 2020	12:45	13.20	3rd Oct 2020	12:45		
	1x160	74.00	7th Oct 2020	19:00	20.56	3rd Oct 2020	12:45		
CUTTACK	1x160	73.92	7th Oct 2020	18:45	14.48	3rd Oct 2020	13:15		
	1x100	44.92	7th Oct 2020	18:30	8.32	3rd Oct 2020	13:00		
DUBURI 220/132 KV {Duburi, Bamnipal(I), BRPL, MESCO, Jajpur Road, Kalarangi, Jajpur Town }	1x160	47.72	15th Oct 2020	10:15	1.48	12th Oct 2020	10:15		
	1x100	UNDER SHUT DOWN							
	1x100	28.72	15th Oct 2020	10:15	0.64	12th Oct 2020	10:15		
GODA	1x160								
	1x160								
JAYAPATNA 220/132 KV.									
JAYANAGAR 220/132 KV. [Damanjodi(NALCO), Traction S/Ss, Tentulikhunti, Sunabeda, Jayanagar]	1x160	43.92	31st Oct 2020	00:00	0.04	8th Oct 2020	11:15		
	1x160	44.04	31st Oct 2020	00:00	0.04	5th Oct 2020	12:45		
JODA 220/132 KV { Joda, Tensa, FAP(I), Bolani(I), Nalda Tr., Polasponga, *Rairangpur, Bhalulata traction }	3x100	45.08	29th Oct 2020	19:30	22.84	10th Oct 2020	14:45	*** - Alternate P/S from Kuche.	
	3x160	57.36	23rd Oct 2020	18:45	29.20	1st Oct 2020	23:30		
	3x100	46.68	29th Oct 2020	19:30	23.72	10th Oct 2020	14:45		
KATAPALI 220/132 KV {Chipilima,Bargarh, ACC,Sonepur & Katapali area load. }	1x100	25.48	10th Oct 2020	18:30	0.04	3rd Oct 2020	09:00	Supported by Burla & Chipilima power.	
	1x100	25.52	10th Oct 2020	18:30	0.04	5th Oct 2020	16:30		
	1x160	38.40	10th Oct 2020	18:30	0.04	4th Oct 2020	18:45		
KESINGA	2x160								
LAPANGA {Kuchinda, Aryan Viraj, Shyam Metallics }	2x160	60.04	11th Oct 2020	18:30	14.48	30th Oct 2020	14:00		
		59.80	11th Oct 2020	18:30	14.36	30th Oct 2020	14:00		
MERAMUNDALI 220/132 kV {Meramundali Traction, Dhenkanal, Navchrome(I), Hind Metal, Aarti,BRG }	3x100	34.52	11th Oct 2020	22:00	13.04	20th Oct 2020	09:30		
		33.80	11th Oct 2020	22:00	12.80	20th Oct 2020	09:30		
		32.88	16th Oct 2020	20:45	11.84	20th Oct 2020	14:00		
Mendhasal { Part area load of Khurda S/S }	2x100	29.91	11th Oct 2020	22:15	0.00	14th Oct 2020	09:45		
		28.19	11th Oct 2020	22:15	0.05	14th Oct 2020	14:30		
NARENDRAPUR 220/132KV { Narendrapur, NarendrapurTr, Berhampur, Chhatrapur, Ganjam, Balugaon, Digapahandi, Mohana. }	2x160	96.08	24th Oct 2020	18:00	31.76	13th Oct 2020	10:30		
		101.28	28th Oct 2020	17:45	31.76	13th Oct 2020	10:30		
	1x100	58.32	28th Oct 2020	17:45	17.16	13th Oct 2020	10:30		
PARDEEP 220/132 KV { Paradeep, Kendrapada, Pattamundai, Chandikhol, Cuttack, Jagatsinghpur, Phulnakhara }	1x100	63.24	7th Oct 2020	11:15	18.20	28th Oct 2020	07:15		
	1x160	103.80	7th Oct 2020	11:15	30.84	28th Oct 2020	07:15		
	1x160	84.56	6th Oct 2020	12:15	31.44	28th Oct 2020	07:15		
TARKERA 220/132 KV [Rourkela, Rourkela Tr.,RSP(I), Chhend , Adhunik Metal, Rajgangpur, OCL(I), Rajgangpur Tr.]	4x100	59.72	29th Oct 2020	07:15	20.28	3rd Oct 2020	13:00		
		63.28	29th Oct 2020	07:15	22.32	3rd Oct 2020	13:00		
		52.68	28th Oct 2020	07:45	20.04	3rd Oct 2020	13:00		
		59.88	29th Oct 2020	07:15	20.76	3rd Oct 2020	13:00		
THERUVALLI 220/132 KV. {Theruvalli, IMFAL(I), JK(I), Junagarh, Kesinga,Powmex(I), Rayagada, }	2x100	46.92	20th Oct 2020	18:15	8.48	19th Oct 2020	10:15	Rayagada & Paralakhemundi can be fed from Machhkund system.	
		49.04	20th Oct 2020	18:15	8.28	19th Oct 2020	10:15		
	1x160	76.80	20th Oct 2020	18:30	12.68	19th Oct 2020	10:15		
TTPS 220/132 KV { Chainpal, FCI (I), Angul, MCL Nandira(I), Rairakhole,Boinda,Kamakhyanagar, Kalarangi, Nuapatna, Choudwar }	1x160	57.41	17th Sep 2020	19:45	0.02	8th Sep 2020	16:30		
	1x160	57.41	17th Sep 2020	19:45	0.02	8th Sep 2020	16:30		
SAMANGARA { Puri, Nimapara & Konark }	2x160								

SYSTEM DISTURBANCE IN THE MONTH OF OCTOBER-2020
(A) TRIPPING OF LINE / EQUIPMENT WITHOUT LOAD LOSS

Sl. No.	Sub-Station	Date	From	To	Duration (HH:MM)	Lines / Equipments / Generating Units tripped	Relay Indication / Cause	Grid Sub-stations affected (it can be more than one)	Area interruption period	Energy Loss in MU	Remarks
1	Kalunga	02.10.2020	13:20	13:36	0:16:00	132 KV Kalunga- Budhipadar	DP Relay- Tripped Phase- Y-N, Zone- 1, Fault location- 56.53 km, Fault duration- 46.99 ms, Ir-118.2 A, Iy-2.008 KA, Ib-148.7 A Tripped at Budhipadar end: Fault Location: 72.179 km, Zone-1, Loop: L2-N, Iy: 1.13 KA				
2	Therubali	02.10.2020	15:44	16:14	00:30	220 KV Therubali-Kolab fdr	C-N, Z-1, 10.3 km, Ic=6 kA at Therubali end. CN, Z-2, 160 km, Ic=1412 A at Kolab end.				
3	Kamakhyanager	03.10.2020	07:50	08:00	00:10	132 KV OPCL- Kamakhyanager	DP & M/T- 86				
4	Jaleswar	03.10.2020	08:53	10:20	01:27	132KV Jaleswar - Baripada PG Fdr.	DP RELAY INDICATION AT JALESWAR END: Z1, Rph-Ground, Distance :-53.6 KM, Ir-787.9A, Iy-16.5A, Ib-16.3A, Vrn-33.53 KV, Vyn-69.39 KV, Vbn-70.20 KV AT KUCHEI END: Z1, Rph-Ground, Distance :-06.934 KM , Ir-5.54KA, Iy-99.81A, Ib-204.4A, Vrn-31.42 KV, Vyn-75.79 KV, Vbn-78.54 KV				132 KV Kuchei-Bhogarai & 132 KV Bhogarai-Jls Fdr are in service.
5	New Duburi	03.10.2020	10:28	10:28	00:00	400KV New Duburi-Baripada Line	FACIA- MAIN 1&2 DP OPERATED ,AR SUCCESSFUL,AUTO TRIP MAIN -1 DP -R-PHASE TRIP, ZONE-1,ZONE1B,CARRIER REC/SEND PICK UP TIME=53 ms,TRIP TIME =9 ms , DISTANCE=100.7 k.m , IL1= 2.95 KA MAIN -2 DP -R-PHASE TRIP , ZONE-1 ,Z COM, CARRIER REC/SEND IL1=3020.32 A,DISTANCE = 100.96 KM Carrier data-"MAIN 1 PERMISSIVE-I (A): Tx (19-> 20) Rx(134 ->135); MAIN 1 PERMISSIVE-II (B): Tx (17 -> 18) Rx(40 ->41); MAIN 2 PERMISSIVE-I (A): Tx (17 -> 18) Rx(81 ->82); MAIN 2 PERMISSIVE-II (B): Tx (19-> 20) Rx(86 ->87); "Baripada End Data- "Main -1 DP R-PHASE TRIP , ZONE - 1 , CARRIER RECEIVE , IL1= 3.70 KA, DIST=67.4 KM Main -2 DP R-PHASE TRIP, ZONE - 1, CARRIER RECEIVE , IL1= 3.825 KA,DIST-70.38KM"				A/R SUCCESSFUL AT BOTH ENDS
6	Chandpur	03.10.2020	14:19	14:23	00:04	132/33kV Transformer No-3	Tipped on Differential E/F protection OPTD, Group-A 86A,Group-B 86B,80C				Supposed to be tripped due to heavy rain and lightning. & During field verification there is no clue found.
7	Budhipadar	03.10.2020	14:33	18:11	03:38	132kV Budhipadar-Lapanga Fdr	DP, Z1, B-E, 4.3km, 9.33kA.				
8	Jharsuguda	03.10.2020	14:42	14:51	00:09	40 mva TRF-I	33 KV Sarbhal fdr pullout				
9	Budhipadar	03.10.2020	15:00	16:16	01:16	220kV Budhipadar-IBTPS Ckt-III	DP, Z1, R-E, 8.42kA, 12.2km.				
10	Jajpur Road	03.10.2020	16:14	17:17	01:03	132KV Jajpur Road- AnandPur Ckt-II	J.Road end: DP RELAY OPERATED, Ib=1.891KA, Zone-II, Fault resistance=21.01Ω, Fault Location=42.14KM Anandpur end: Zone-I,Y-phase to Ground, Fault Dist.-0.9Km, Fault Current Ibn-2.70KA				
11	Jharsuguda	03.10.2020	18:12	18:18	00:06	40 MVA TRF-I	33 KV Sarbhal fdr pullout				
12	Atri	03.10.2020	13:38	14:39	01:01	220KV Atri- Pandiabil ckt-1	DP, Bph-N, 2.8 kA, 26.47 km				220KV Atri- Pandiabil ckt-2 was in service
13	Atri	03.10.2020	13:38	13:38	00:00	220KV Atri- Pandiabil ckt-2	O/C, E/F, Bph-N, 2.9 kA				Auto Recloser successful
14	Atri	03.10.2020	14:04	14:51	00:47	132KV Atri- Khurda ckt-1	O/C, E/F, Yph & Bph, 3.3 kA, 1.1 kA				132KV Atri- Khurda ckt-2 was in service
15	Budhipadar	04.10.2020	12:20	13:47	01:27	220kV Budhipadar-Korba Ckt-II	Tripped at Both end. B.Padar end: DP, Z1, 51.1km, Y-E, 515.6A.				
16	Bhograi	04.10.2020	13:03	14:29	01:26	132KV Bhograi-Kuchei Line	Bhograi end:NO TRIPPING Baripada PG end:Z-1, R-Y-GROUND,LOC.-14.71KM,IR-5.407KA				

17	Angul	04.10.2020	14:59	15:21	00:22	132 KV MCL-I	DP relay (Fault loop L1N,Distance-10.916 KM, fault current-4814.07 A) & E/F				132 KV MCL-II tripped on E/F at MCL end (Weather condition severe lightning & heavy rainfall at MCL end)
18	Budhipadar	04.10.2020	15:05	15:42	00:37	220kV Budhipadar-IBTPS Ckt-III	DP, Z1, R-E, 19.44kA, 3.2km.				
19	Budhipadar	04.10.2020	15:05	15:42	00:37	220kV Budhipadar-IBTPS Ckt-IV	DP, Z1, Y-E, 13.77kA, 6.9 km.				Declared faulty.
20	Jharsuguda	05.10.2020	22:47	22:57	00:10	40 MVA TRF-I	33 KV Sarbhal fdr pullout				
21	Atri	06.10.2020	10:44	11:10	00:26	220KV Atri- Narendrapur ckt-1	DP, Yph & Bph, 3.07 kA, 2.92 kA, 69.3 km				220KV Atri- Narendrapur ckt-2 was in service
22	Therubali	06.10.2020	13:29	14:58	01:29	220KV Therubali-Indravati ckt-3	Tripped at Indravati end with Bus bar protection operated.				Not tripped at Therubali end
23	Therubali	06.10.2020	13:29	15:01	01:32	220KV Therubali-Indravati ckt-1	Tripped at Indravati end with Bus bar protection operated.				Not tripped at Therubali end
24	Therubali	06.10.2020	14:56	18:42	03:46	220KV Therubali-Kashipur-Jayapatna-Indravati ckt-4	Tripped at Kashipur end and Jayapatna end. Charged at Jayapatna end at 16:44 Hrs. But no such communication available with Kashipur grid.				Information has been obtained from Jayapatna SDO regarding tripping. Intimated to Kashipur SDO.
25	Therubali	06.10.2020	16:21	07.10.20 21:47	29:26:00	220KV Therubali-Indravati ckt-2	Tripped on AN, Z-1, 59.17 km, 2.4 kA at Thv end. Tripped at Indravati end with AN, Z-1, 28.37 km, 3.62 kA. Test charged at 16.32 Hrs but did not stand.				After line inspection, found that double insulator string burst at location No.-183. The line is declared breakdown.
26	Therubali	07.10.2020	09:15	09:27	00:12	220KV Therubali-Bhanjanagar ckt-1	AN, Z-1, 93.27 KM, Ia=1.4 kA at Therubali end. AN, Z-1, 82.61 KM, Ia=1.07 kA at Bhanjanagar end.				
27	Bhanjanagar	07.10.2020	09:15	09:27	00:12	220 KV Bhanjanagar-Therubali ckt-1	AN Z-1,D=82.61KM,IA=1.077KA				
28	Lapanga	07.10.2020	13:54	13:54	00:00	400kV Lapanga-Meramundali Ckt-I					A/R successful.
29	Lapanga	07.10.2020	13:54	15:03	01:09	400kV 80MVAR reactor-1.					
30	New Duburi	08.10.2020	10:35	14:45	04:10	220 KV NEW DUBURI-BALASORE	EVENT 1: FACIA- MAIN 1 D.P OPERATED, MAIN 2 DP OPERATED, GR A/B TRIP RELAY OPERATED. MAIN -1 DP GENERAL TRIP, R-PH PICK UP, ZONE-1, DIST =29.0 KM. IL1-5.39 KA MAIN-2 DP ANY TRIP, R-PH PICK UP, E/F, ZONE-1, DIST =28.69 KM. IL1-5.489 KA EVENT 2: FACIA- MAIN 1 D.P OPERATED, MAIN 2 DP OPERATED, GR A/B TRIP RELAY OPERATED, SOTF. MAIN -1 DP GENERAL TRIP, R-PH PICK UP, Y-PH PICKUP, ZONE-1, DIST =29.8 KM. IL1-6.39 KA, IL2-6.36, IL3-0.08 KA MAIN-2 DP ANY TRIP, R-PH PICK UP, Y-PH PICKUP, TRIP PHASE ABC, ZONE-1, SOTF, DIST =29.78 KM. IL1-6.44 KA, IL2-6.38, IL3-80.18 A BALASORE END INDICATION- MAIN 1 DP- EVENT-1:R-PH TRIP, ZONE-I, DIST-100.4KM,IL1-1.429 KA. EVENT 2: A B R-PH TRIP SOTF, ZONE 1 DIST 112.8				A/R SUCCESSFUL BUT TRIPPED AGAIN ON SOTF AT BOTH ENDS R-Ph tension insulator string failed at Loc no-80 (OC) which was replaced.
31	Jharsuguda	08.10.2020	16:52	16:55	00:03	40 MVA TRF-I	33 KV Sarbhal fdr pullout				
32	Atri	08.10.2020	13:03	17:43	04:40	220KV Atri- Narendrapur ckt-2	DP, Rph-N, 2.11 kA, 71.1 km				220KV Atri- Narendrapur ckt-1 was in service
33	Therubali	09.10.2020	09:47	12:17	02:30	220KV Therubali-Narendrapur ckt-1	Shutdown availed by Grid S/S, Therubali for rectification of Y & B-Phase Drop.				
34	Budhipadar	09.10.2020	12:36	15:31	02:55	220kV Budhipadar-Korba Ckt-II	DP, Z1, L3-E, 105.2km, IL1=0.15kA, IL2=0.17kA, IL3=3.28kA.				
35	Kalunga	09.10.2020	12:51	13:20	0:29:00	132 KV Kalunga- Budhipadar	DP Relay- Tripped Phase- Y-N, Zone- 1, Fault location- 64.64 km, Fault duration- 69.99 ms, Ir-146.6 A, Iy-1.617 KA, Ib-173.8 A Tripped at Budhipadar end: Fault Location: 94.3 km, Zone-2, Loop: L2-N, Iy: 1.027 KA.				
36	Jharsuguda	09.10.2020	20:03	20:10	00:07	40 MVA TRF-I	33 kv sarbhal fdr pullout.				
37	Atri	09.10.2020	11:54	11:54	00:00	220KV Atri- Narendrapur ckt-2	DP, Rph-N, 1.5 kA, 112 km				Auto Recloser successful
38	Atri	09.10.2020	17:24	17:24	00:00	220KV Atri- Narendrapur ckt-1	DP, Rph-N, 1.28 kA, 117.2 km				Auto Recloser successful

39	Aska new	10.10.2020	08:30	08:46	00:16	220KV Aska New- Bhanjanagar Ckt-2	TRIPPED ON R PH TO E/F Bhanjanagar end: AGT,Z-1,D-10.77KM IA 5.229KA				CKT WAS TRIPPED ONLY AT B-NAGAR GSS
40	Bolangir(New)	10.10.2020	10:30	11:04	00:34	220KV Bolangir New-PGCIL ckt-II	Tripped on distance protection.				220KV PGCIL ckt-I & 220KV Bargarh New ckt were in service.
41	Bhanjanagar	10.10.2020	10:30	10:38	00:08	220 KV Bhanjanagar-Therubali ckt-	CGT,Z-1,D-36.59KM IC =2.83KA				
42	Bolangir(New)	10.10.2020	12:05	12:13	00:08	220KV Bargarh New-Bolangir New	Tripped on distance protection.				220KV PGCIL ckt-I & II were in service.
43	Jajpur Road	10.10.2020	14:21	15:10	00:49	132KV Jajpur Road- AnandPur Ckt-I	J.Road end: DP RELAY OPERATED, Ic=2.738KA, Zone-II, Fault resistance=22.74Ω, Fault Location=41.02KM Anandpur end: Zone-1, B-phase to Ground, Fault Dist.-3.1 Km, Fault Current Icn-1.8 KA				
44	Rengali S/Y	10.10.2020	16:08	11.10.2020 17:28:00	25:20	220KV Rengali S/Y- Barkote Ckt-I	EPAC 3000,ALSTOM MAKE DP RELAY OPERATED,D=34.4KM,Z1,IA=8.01IN,Zone-1 AT BARKOTE END ,EPAC 3000,ALSTOM MAKE DP RELAY OPERATED,D=13.1KM.				CHARGED THE FEEDER AT BARKOTE END AT 17:05 HRS BUT AGAIN TRIPPED AT 17:05 HRS. Replacement of snapped R ph double suspension insulator string, damaged Y ph single suspension string and damaged B ph single suspension string at loc no-336 of the said ckt
45	Therubali	10.10.2020	10:29	10:38	00:09	220 KV Therubali- Bhanjanagar Ckt-2	CN, Z-1, 111.6 km, 1.36 kA at Therubali end. CN, Z-1, 37.23 km, 2.85 kA at Bhanjanagar end.				
46	Lapanga	11.10.2020	10:20	10:50	00:30	400kV lapanga-OPGC Ckt-I.	Lapanga end: Z1, 8.61km, B-E, 17.8kA				
47	New Duburi	11.10.2020	15:36	15:51	00:15	220KV NEW DUBURI PARADEEP CKT-I	FACIA- MAIN-2 DP OPERATED MAIN-1 DP R-PH PICK UP, Y-PH PICK UP MAIN-2DP GENERAL TRIP,Y PH TO EARTH FAULT, 1-POLE TRIP,A/R CLOSE,DISTANCE-111.9KM,IL2-1.99KA PARADEEP END INDICATION-O/C, Y PH TO EARTH FAULT, DISTANCE-3.5KM, ZONE-1				A/R SUCCESSFUL AT NEW DUBURI END ONLY.CB AT PARADEEP END WAS IN TRIP CONDITION.
48	Budhipadar	12.10.2020	10:10	10:25	00:15	220kV Budhipadar-Tarkera Ckt-1	Tarkera end: DP, Z1, B-E, 24.3km, 3.28kA.				
49	Lapanga	12.10.2020	11:34	18:17	06:43	400kV lapanga-OPGC Ckt-II.	Lapanga end: DP, Z1, R-E, 83.49km, 18.6 kA				
50	Chandpur	13.10.2020	07:23	07:30	00:07	132/33kV Transformer No-3	Tipped on Differential E/F protection OPTD, Group-A 86A,Group-B 86B,80C				Supposed to be tripped due to heavy rain and lightning. & During field verification there is no clue found.
51	Budhipadar	13.10.2020	11:43	12:15	00:32	220kV Budhipadar-Tarkera Ckt-1					
52	Lapanga	13.10.2020	11:54	19:19	07:25	400kV lapanga-OPGC Ckt-II.	Lapanga end: DP, Z1, R-E, 6.85kA, 15.4km OPGC end: R-E, Z1, 16.2km, 8.8kA.				
53	Kendrapara	14.10.2020	06:29	14:13	07:54	132/33KV 40MVA TRF-II	TRIPEED ON DIFFERENTIAL RELAY WITH M/R DUE TO 132KV R -PH CT BRUST AND CHARGED AFTER REPLACEMENT OF NEW CT.				
54	Kendrapara	14.10.2020	06:29	06:39	00:10	132/33KV 40MVA TRF-IV	132KV SIDE AND 33 KV SIDE TRIPEED WITH M/R DUE TO BRUST OF 132KV R -PH CT OF TRF-II				
55	Kendrapara	14.10.2020	06:29	06:37	00:08	132KV KENDRAPARA - PARADEEP CKT-II	TRIPEED ON LBB WITH M/R DUE TO BRUST OF 132KV R -PH CT OF TRF-II				
56	Kendrapara	14.10.2020	06:29	06:35	00:06	132KV KENDRAPARA-PATTAMUNDAI SC LINE	TRIPEED ON LBB WITH M/R DUE TO BRUST OF 132KV R -PH CT OF TRF-II				
57	Kendrapara	14.10.2020	06:29	06:37	00:08	132KV KENDRAPARA-CHANDIKHOLE CKT-I LINE	TRIPEED ON LBB WITH M/R DUE TO BRUST OF 132KV R -PH CT OF TRF-II				LINE WAS IDLE CHARGED FROM KENDRAPARA END. CHANDIKHOLE GRID WAS AVAILLING P/S FROM JAJPUR ROAD GRID.
58	Kendrapara	14.10.2020	06:29	06:38	00:09	132KV KENDRAPARA-SALIPUR	TRIPEED ON LBB WITH M/R DUE TO BRUST OF 132KV R -PH CT OF TRF-II				LINE IDLE CHARGED FROM KENDRAPARA END.
59	Banki	14.10.2020	07:34	07:46	00:12	132kV Banki-Nuapatna Fdr	Tripped on Distance trip (Bφ)				
60	Lapanga	14.10.2020	11:31	19:19	07:48	220kV Lapanga-Katapali Ckt-II.	Lapanga end: DP, Z1, R-E, 3.6kA, 49.58km Katapali end: R-E, Z1, 4.74km, 8.82kA.				
61	Cuttack	15.10.2020	09:49	10:10	00:21	132kV CTC-JSPR Feeder	Tripped on O/C in Y-B ph.E/F. IL1=0.01KA,IL2=2.87KA,IL3=2.86KA				heavy lightneing & thunderstorm observed at Jagatsinghpur end. At cuttack end weather condition is cloudy.
62	Therubali	16.10.2020	12:57	13:27	00:30	220KV Therubali-Narendrapur ckt-2	L3-N, ZONE-1, 58.27KM, IL3-2.1KA at Therubali end. B-G,148.4KM,IB-0.83KA at Narendrapur end.				

63	Jharsuguda	16.10.2020	19:40	19:45	00:05	40 MVA TRF-I	33 KV Sarbhal fdr pullout				
64	Samangara	17.10.2020	01:05	01:24	00:19	132/33 KV ,20 MVA POWER TFR-II	TC-1 Faulty,trip relay 86 Operated				
65	Infocity-II	17.10.2020	03:46	04:12	00:26	220/33kv 40 mva trafo no-01	Due to 33KV Chhatabara feeder fault.				
66	Budhipadar	17.10.2020	11:38	11:56	00:18	220kV Budhipadar-Tarkera Ckt-1					
67	Atri	17.10.2020	17:33	22:46	05:13	132KV Atri- Khurda ckt-2	DP, Yph-N, 3.78 kA, 11.10 km				132KV Atri- Khurda ckt-1 was in service
68	Jharsuguda	18.10.2020	02:16	02:19	00:03	40 mva TRF-I	33 KV Sarbhal fdr pullout				
69	Sundargarh	18.10.2020	03:17	03:46	00:29:00	132/33kV 20MVA Transformer No	E/F,Y,B-phase,Ir=0.06 KA, Iy:0.58 KA, Iy:0.56 KA (B-phase limb of 33 KV TRF-III Breaker burst)				
70	Sundargarh	18.10.2020	03:17	08:56	05:39:00	132/33kV 20MVA Transformer No	E/F,Y,B-phase (B-phase limb of 33 KV TRF-III Breaker burst)				
71	Budhipadar	18.10.2020	09:33	11:39	02:06	220kV Budhipadar-BPSL Ckt-II	B Phase, 5.12km, 1.51kA				
72	Bhograi	19.10.2020	00:42	01:08	00:26	132KV Bhograi-Kuchei Line	Bhograi end: Z-1, R-GROUND,LOC.-38.4KM,IR-1.035KA Baripada PG end:Z-1, R-GROUND,LOC.-46.2KM,IR-1.792KA				
73	Bhograi	19.10.2020	02:34	03:22	00:48	132KV Bhograi-Kuchei Line	Bhograi end: Z-1, R-GROUND,LOC.-38.5KM,IR-1.030KA Baripada PG end: Z-1, R-GROUND,LOC.-46.05KM,IR-1.835KA				
74	Atri	20.10.2020	11:10	12:08	00:58	220KV Atri- Pandiabil ckt-2	86 A/ B trip relay optd				220KV Atri- Pandiabil ckt-1 was in service
75	Bhanjanagar	20.10.2020	18:13	18:36	00:23	220KV Bhanjanagar-Nayagarh fdr	CN,Z-ID=3.5KM, IF=6.29AMP				
76	Bhanjanagar	23.10.2020	05:19	10:18	04:59	160 MVA AUTO TRF- 2	OSR TRIP,86				
77	Brajrajnagar	23.10.2020	06:52	07:28	00:36	132/33 KV TRF 1 (NGEF)	E/F				Due to OCPL feeder
78	Lapanga	23.10.2020	10:53	12:32	01:39	220kV Lapanga-Katapali Ckt-II.	B-E, 37.61km, 3.817kA.				
79	Brajrajnagar	23.10.2020	13:16	13:19	00:03	132/33 KV TRF 1 (NGEF)	E/F				
80	New Duburi	24.10.2020	10:14	10:32	00:16	220 KV NEW DUBURI-PARADEEP CKT-II	FACTOR-MAIN-1&MAIN-2 DP OPERATED MAIN-1 DP GENERAL TRIP,R-PH PICK UP, Y-PH PICK UP, ZONE-I, DISTANCE=69.3 KM, IL1=N/A, IL2=2.78 KA, IL3=0.29 KA PU TIME=48 ms, TRIP TIME=1 ms MAIN-2 DP GENERAL TRIP,R-PH PICK UP, Y-PH PICK UP, ZONE-I, DISTANCE=69.2 KM, IL1=3.31 KA, IL2=2.79 KA, IL3=0.29 KA, PU TIME=48 ms, TRIP TIME=1 ms PARADEEP END INDICATION- RPH- YPH- TO EARTH FAULT, DISTANCE=36.1KM,				
81	Bhanjanagar	24.10.2020	13:28	13:44	00:16	132kv Bhanjanagar-Aska ckt-1	ABT,Z-1.D=8.95KM				
82	Kendrapara	26.10.2020	04:58	06:00	01:02	132KV KENDRAPARA-SALIPUR SC LINE	TRIPPED ON DP RELAY.R-PHASE,ZONE-1,18.85KM				LINE IDLE CHARGED FROM KENDRAPARA END.
83	Sundargarh	26.10.2020	09:37	09:39	00:02	132/33kV 20MVA Transformer No	E/F,R-phase, (fault in 33 KV Subdega feeder, O/C-Rphase,I:2.4 KA)				
84	Mendhasal	26.10.2020	11:15	12:56	01:41	400kV Mendhasal-Meramundali Ckt-1	DP, Z1, 44.7km, IL3=3.26kA, IL2=0.31kA, IL1=0.65kA				
85	Rourkela	26.10.2020	12:20	12:43	00:23	132kV Rourkela- Tarkera Ckt-1	E/F.				
86	Budhipadar	27.10.2020	10:12	16:41	06:29	220kV Budhipadar-Korba Ckt-II	Tripped at Both end. B.Padar end: DP, Z1, 18.9km, 6.18kA.				
87	Therubali	27.10.2020	10:45	11:17	00:32	220kv Therubali-Kashipur-Jayapatna-Indravati ckt-4	CG-T,ZONE-1,15.85km,Ic-4.67KA,Ig-4.45KA at Therubali end.B-N,ZONE-1,44KM,at Kashipur end.				

88	New Duburi	27.10.2020	20:55	21:26	00:31	220 KV NEW DUBURI-BALASORE	FACIA GR A/B TRIP RELAY OPERATED, SOTF OPERATED, MAIN 2 DP OPERATED MAIN-1 DP L3E PICK UP, A/R NOT READY MAIN-2 DP ANY TRIP, B-PH START, SOTF, A/R BLOCK, DISTANCE=128.6 KM, IL3=1.408KA, ZONE-2, FAULT DURATION= 59.97 ms, TRIP TIME=79.96 ms B/U B-PH PICK UP, E/F PICK UP BALASORE END INDICATION- MAIN 1 DP- B PH TRIP, ZONE-1, DIST=16.58 KM, B PH-N MAIN 2 DP- GENERAL TRIP, TRIP B, ZONE=1, DIST=15.137 KM, IL3=4582.23 AMP				
89	Tarkera	28.10.2020	04:01	10:44	06:43	220/132kV 100MVA Auto Trf-1	30 A TR-1, Buchholz relay trip.				
90	Soro	28.10.2020	15:13	15:18	00:05	132/33kV 20MVA TRF-II	E/F				At the same time 33KV Gopinathpur Feeder tripped on E/F.
91	Tarkera	29.10.2020	05:28	11:34	06:02	220/132kV 100MVA Auto Trf-3	30 A TR-1, Buchholz relay trip.				
92	Angul	29.10.2020	15:17	17:03	01:46	132 KV Angul-TTPS	IL1=0.15 KA, IL2=0.17 KA, IL3=0.64 KA				At TTPS end tripped on distance protection with fault current 4.47 KA , fault distance 9.044KM, fault loop L3N. Simultaneously 132 KV Chainpal-Angul fdr tripped on E/F at both ends. Due to failure of both the sources of grid SS, Angul, all other fdrs hand tripped. Line patrolling carried out, it was found that one big mango tree has been uprooted by the railway authority which was in close proximity to 132 KV TTPS-Angul and 132 KV Chainpal-Angul double circuit tower.
93	Therubali	30.10.2020	13:38	13:48	00:10	220KV Therubali-Laxmipur ckt-2	CG-T, ZONE-1, 8.78KM, IC-6.125KM, IG-6.287KA at Therubali end. C-N, ZONE-1, 37.5KM, IC-2.802KA at laxmipur end.				
94	Samangara	30.10.2020	18:14	18:28	00:14	132KV Samangara -Satasankha Ckt-II	O/C, E/F, 67, 67N, III=0, II2=1.48 KA, II3=0, master trip 86 optd.				
95	Barpali	31.10.2020	16:05	16:10	00:05	132KV TRF-3	O/C				

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

Sl. No.	Sub-Station	Date	From	To	Duration (HH:MM)	Lines / Equipments / Generating Units tripped	Relay Indication / Cause	Grid Sub-stations affected (it can be more than one)	Area interruption period	Energy Loss in MU	Remarks
1	Saintala	01.10.2020	05:23	05:36	00:13	132KV Tushura-Saintala Fdr.	DUE TO EARTHFAULT AT B-phase IN KESINGA B/R AND ALSO PULLED OUT TUSHRA B/R AND ALSO TRIPPED 132/33KV SOLAR B/R .	Saintala, Khariar, Nuapada, Trac., Kantabanji, Trac.	0:13 0:16	0.005713 0.004509	
2	Atri	01.10.2020 01.10.2020	05:43 05:49	05:48 17:59	00:05 12:10	132KV Atri- Samuka 132KV Atri- Samuka	DP, Rph & Yph, 2.4 kA, 2.2 kA, 54.62 km DP, Rph & Yph, 2.4 kA, 2.2 kA, 54.83 km	Shamuka	00:13	0.003711	Shamuka availed supply from Puri end at 06:06Hrs
3	Puri	01.10.2020	05:43	18:15	12:32	132KV Atri-Shamuka feeder	Snapping of jumper at loc-162	Puri, Samangara, Satasankha	00:10	0.004540	Alternate supply arranged from Nimapara at 06:03Hrs.
4	Palaspanga	02.10.2020	09:19	09:21	00:28	132KV RTSS-KJR Feeder	O/C (R PH), Ia=222.9A, Ib=171.7A, Ic=56.82A,Inm = 6.911A, Ind= 5.148A	RTSS Keonjhar	00:28	0.003179	O/C TRIP
5	Kendrapara	03.10.2020	10:50	14:41	03:51	132KV KENDRAPARA-PATTAM	TRIPPED ON E/F WITH M/R AND DELAY CHARGED FOR S/D	Pattamundai, Olaver, Chandbali	03:51	0.214159	
6	Palaspanga	03.10.2020	12:57	12:58	00:14	132KV RTSS-KJR Feeder	O/C (R PH), Ia=224.8A, Ib=180.5A, Ic=52.18A,Inm = 7.161A, Ind= 6.510A	RTSS Keonjhar	00:14	0.001589	O/C TRIP
7	Chandpur	03.10.2020	13:58	14:19	00:21	132KV Chandpur-Atri Fdr	Chandpur end: Dist. Protection operated, Z1, B-phase, IL1 =0.13 kA, IL2=0.13 kA ,IL3=0.17 kA, Dist.-16.1 km Atri end: DP, Rph & Yph, 5.69 kA, 5.50 kA, 17.92 km	Chandpur	00:21	0.003142	Supposed to be tripped due to heavy rain and lightning .
8	Atri	03.10.2020	14:04	14:18	00:14	132KV Atri- Samuka	DP, Yph & Bph, 3.7 kA, 7.5 kA, 7.11 km	Samuka, Puri, Samangara, Satasankha	00:14	0.010352	
9	Rayagada	03.10.2020	14:47	14:52	00:05	132KV Podagad-Rayagada S.C Lin	Tripped at Podagada	Rayagada, Akhusing, Parlakhemundi	00:05	0.002446	Tripped at Podagada but no indication at RGDA
10	Tarkera	03.10.2020	16:53	04.10.20 16:42	23:49	220kV Tarkera-Rengali Ckt-II.	Tarkera end: DP, Z1, B-E, 116.02km, 1.57kA. At Rengali S/Y end:DP (Loop- L3 _N , Distance - 107 km , IL3=4.1 kA ,In=4.2KA)	Chandiposh RTSS	23:49	0.148886333	Tripped immediately after chatging at 17:18Hrs and declared faulty.
11	Ganjam	03.10.2020	23:23	23:37	00:14	132KV Chatrapur-Ganjam feeder	Incoming supply failure from Chatrapur end.	Ganjam, Grasim	00:14	0.005192	
12	Nuapada	04.10.2020	00:20	00:24:00	00:04	132KV Saintala-Khariar Line	Tripped From Saintala	Khariar,Nuapada, Nuapara Trac., Kantabnji, Kantabanji Trac.	00:04	0.002796	Due to Earth Fault on R-ph at Saintala
13	Saintala	04.10.2020	00:24	00:31	00:07	132KV Tushura-Saintala Fdr.	DUE TO EARTHFAULT AT B-phase IN KESINGA B/R AND AISO PULLED OUT TUSHRA B/R AND ALSO TRIPPED 132/33KV SOLAR B/R .	Saintala, Khariar, Nuapada, Trac., Kantabanji, Trac.	0:07 0:10	0.003076 0.002818	
14	Cuttack	04.10.2020	10:59	11:05	00:06	132kv CTC-Phulnakhara Feeder	Tripped on O/C in R-Y-B ph,E/F. IL1=0.02KA,IL2=0.88KA,IL3=0.86KA	Phulnakhara	00:06	0.002385	heavy lightneing observed at phulnakhara end. At cutttack end weather condition is normal. Phulnakhara availed p/s at 11:10hrs
15	Jaleswar	04.10.2020	12:48	13:44	00:56	132KV Jaleswar - Baripada PG Fdr.	DP RELAY INDICATION AT JALESWAR END: Z1, Yph-Ground, Distance :-51.1 KM, Ir-249.2A, Iy-515.6A, Ib-124.9A, Vrn-73.61 KV, Vyn-30.72 KV, Vbn-73.23 KV AT KUCHEI END: Z1, yph-Ground, Distance :-16.72 KM , Ir-244.7A, Iy-3.62KA, Ib-108.4A, Vrn-76.69 KV, Vyn-47.28 KV, Vbn-78.02 KV	Jaleswar, Tractation, Bhogarai	00:06	0.002880	Tripped from both end.

16	Palaspanga	04.10.2020	13:36	13:38	0:02	132KV JODA-Palaspanga Feeder	AG TRIP, Ia=236.3A, Ib=88.0A, Ic=129.4A, In=0.10A, Ig=142.35A	Palaspanga, Keonjhar Trac., ESIL, OSISL	00:02	0.001267	E/F TRIP
17	Brajrajnagar	04.10.2020	14:32	14:39	00:07	132/33KV Transformer No-3	O/C (R, Y & B PHASE) & E/F	Brajrajnagar	00:05	0.002351	Due to Aryan & NTPC-II feeders
		04.10.2020	14:32	14:38	00:06	132/33KV Transformer No-1					132/33kV Transformer No-4 was under S/D.
		04.10.2020	14:32	14:37	00:05	132/33KV Transformer No-5					
18	Brajrajnagar	04.10.2020	14:44	15:42	00:58	132/33KV TRF3(HHE)	O/C (R, Y & B PHASE) & E/F	Brajrajnagar			Due to Aryan feeder
		04.10.2020	14:44	15:43	00:59	132/33KV Transformer No-5					
		04.10.2021	14:44	15:41	00:57	132/33KV Transformer No-1					132/33kV Transformer No-4 was under S/D.
19	Palaspanga	05.10.2020	07:10	07:19	0:09	132KV JODA-Palaspanga Feeder	ABC trip Ia=1547.6A, Ib=1422.7A, Ic=1410.9A, In = 0A, Ig= 39.4A	Palaspanga, Keonjhar Trac., ESIL, OSISL	00:09	0.005703	O/C TRIP
20	Bhawanipatna	05.10.2020	18:16	18:20	00:04	132kV Bawanipatna-Lanjigarh RTSS Fdr	LBB	Bhawanipatna, Lanjigarh RTSS	00:04	0.000789	FAULT OF LANJIGARH ROAD RTSS
21	Saintala	05.10.2020	21:33	21:35	00:02	132KV Tushura-Saintala Fdr.	DUE TO EARTHFAULT AT B-phase IN KESINGA B/R AND ALSO PULLED OUT TUSHRA B/R AND ALSO TRIPPED 132/33KV SOLAR B/R .	Saintala, Khariar,	0:02	0.000879	
								Nuapada, Trac., Kantabanji, Trac.	0:04	0.001127	
22	Nuapada	06.10.2020	04:04	04:10	00:06	132KV Saintala-Khariar Line	Tripped From saintala	Khariar, Nuapada, Nuapara Trac., Kantabanji, Kantabanji Trac.	00:06	0.004194	Earth Fault on R-Phase at Saintala Grid.
23	Bhawanipatna	06.10.2020	06:52	06:58	00:06	132kV Bawanipatna-Lanjigarh RTSS Fdr	LBB	Bhawanipatna, Lanjigarh RTSS	00:06	0.001183	FAULT OF LANJIGARH ROAD RTSS
24	Bhawanipatna	06.10.2020	13:11	13:13	00:02	132kV Bawanipatna-Lanjigarh RTSS Fdr	LBB	Bhawanipatna, Lanjigarh RTSS	00:02	0.000394	FAULT OF LANJIGARH ROAD RTSS
25	Bhawanipatna	06.10.2020	13:45	13:48	00:03	132kV Bawanipatna-Lanjigarh RTSS Fdr	LBB	Bhawanipatna, Lanjigarh RTSS	00:03	0.000591	FAULT OF LANJIGARH ROAD RTSS
26	Aska new	06.10.2020	23:47	23:51	00:04	132/33kV Transformer No-1	TRIPPED ON E/F	Aska New	00:04	0.000472	
27	Atri	07.10.2020	12:35	12:42	00:07	132KV Atri- Samuka	DP, Yph-N, 2.34 kA, 42.88 km	Samuka, Puri, Samangara, Satasankha	00:07	0.018486	
28	Balasore	07.10.2020	20:35	21:10	00:35	63MVA Power Trf-I	33KV Balasore-II feeder tripped on O/C, R-Ph, Y-Ph, B-Ph & E/F pulling out all the three power Trf on E/F	Balasore	00:25	0.023607	B-Ph jumper of Nesco gantry end snapped in 33KV Bls-II fdr
29	Balasore	07.10.2020	20:35	21:00	00:25	63MVA Power Trf-II	33KV Balasore-II feeder tripped on O/C, R-Ph, Y-Ph, B-Ph & E/F pulling out all the three power Trf on E/F				B-Ph jumper of Nesco gantry end snapped in 33KV Bls-II fdr
30	Balasore	07.10.2020	20:35	21:00	00:25	63MVA Power Trf-III	33KV Balasore-II feeder tripped on O/C, R-Ph, Y-Ph, B-Ph & E/F pulling out all the three power Trf on E/F				B-Ph jumper of Nesco gantry end snapped in 33KV Bls-II fdr
31	Saintala	07.10.2020	23:07	23:09	00:02	132KV Tushura-Saintala Fdr.	DUE TO EARTHFAULT AT B-phase IN KESINGA B/R AND ALSO PULLED OUT TUSHRA B/R AND ALSO TRIPPED 132/33KV SOLAR B/R .	Saintala, Khariar,	0:02	0.000879	
								Nuapada, Trac., Kantabanji, Trac.	0:06	0.001691	
32	Saintala	08.10.2020	05:41	05:48	00:07	132KV Tushura-Saintala Fdr.	DUE TO EARTHFAULT AT B-phase IN KESINGA B/R AND ALSO PULLED OUT TUSHRA B/R .	Saintala, Khariar,	0:07	0.003076	
								Nuapada, Trac., Kantabanji, Trac.	0:08	0.002255	
33	Soro	08.10.2020	11:13	11:56	00:43	132KV Soro- Bhadrak Feeder	Main protection operated with Zone-1 at Bdk end, Fault loop L2-L3, Fault Current-L1-187.93A, L2-2931.2A, L3-2662.78A, Fault Distance-29.263KM	Soro	0:43	0.024768	P/S availed from Bhadrak End at 11:56Hrs
34	kuchinda	08.10.2020	14:12	09.10.2020 12:09	21:57	132kV Kuchinda-SMC feeder	Tripped at SMC end.	Kuchinda	00:24	0.003888	power restored from Rajgangpur end at 14:36 on dt 08.10.2020

35	Barpali	09.10.2020	01:14	01:15	00:01	132KV RTSS Dunguripali	O/C	Dunguripali RTSS	00:01	0.000043	
36	Nuapada	10.10.2020	01:40	01:45	00:05	132KV Saintala-Khariar Line	Tripped From saintala	Khariar,Nuapada, Nuapara Trac., Kantabnji, Kantabanji Trac.	00:05	0.003495	Earth Fault on R-Phase at Saintala Grid.
37	Tarkera	10.10.2020	16:08	16:43	0:35	220kV Tarkera-Rengali S/Y Ckt-2	DP(Zone- I , B Phase, Loop=L3_N, Distance=65.427kms, IL3=2.38 kA , In=2.18 kA) At Rengali S/Y end: DP (Zone-II,B phase,Loop- L3_N , Distance - 75.19 km , IL3=5.00 kA ,In=5.2KA).	Chandiposh RTSS	00:35	0.003646621	
38	Saintala	10.10.2020	20:06	20:07	00:01	132KV Tushura-Saintala Fdr.	DUE TO EARTHFAULT AT B-phase IN KESINGA B/R AND AISO PULLED OUT TUSHRA B/R AND ALSO TRIPPED 132/33KV SOLAR B/R .	Saintala, Khariar, Nuapada, Trac., Kantabanji, Trac.	0:01 0:04	0.000439 0.001127	
39	Barbil	10.10.2020	22:37	03:21	04:44	132 KV Barbil - Joda fdr	Tripped at Joda Grid S/S end due to D/P relay operation at Joda Grid S/S end with following relay indication:-Fault Phase- AC, Zone- I, Location- 0.75KM, IA- 7.331KA, IB- 244A, IC- 7.476KA	Barbil Bolani, Arya S/S, Nalda, BRPL, Beckay Steel	04:44 04:47	0.041532 0.1059471	As per field verification it was found that B-Phase jumper snapped in gantry tower of Joda Grid S/S.
40	Palaspanga	11.10.2020	15:52	15:53	0.01	132KV RTSS-KJR Feeder	O/C (R PH), Ia=221.4A, Ib=156.8A, Ic=97.15A,Inm = 7.289A, Ind= 6.904A	RTSS Keonjhar	0:01	0.000114	O/C TRIP
41	Bhanjanagar	13.10.2020	09:45	09:58	00:13	132KV Bhanjanagar-Phulbani fdr	O/C R,Y&B TRIP,L1-580A,L2-670A,L3-720A	Phulbani	00:13	0.003864	
42	Balasore	13.10.2020	13:34	14:11	00:37	132KV Balasore-Udala feeder	At Balasore end: B-PH TO G (A,B,C) ,Zone-2, Distance : 52.15KM Fault current : Ib= 1.476KA. B/U : Y-PH O/C, E/F Fault current : Iy= 1.45KA At Udala end: Zone-, B-G, Distance: 16.3KM, Fault current : Ib=0.17KA	Udala, Betanati	00:37	0.012833	During the time of tripping, there was heavy lightning & rain
43	Angul	13.10.2020	20:36	20:46	00:10	132 KV Angul-Boinda	Trig Signal- ZM01 Fault Abs Dist.- 26.915 KM Fault Loop- L3N, Fault current I _R =231.47 A, I _Y = 385.90 A, I _B = 3124.93 A	Boinda, Trac. Rairakhol, Traction	0:10 0:06	0.002256 0.00078	At Angul end CB is Trip : Trig Signal- ZM01 Fault Abs Dist.- 26.915 KM Fault Loop- L3N, Fault current I _R =231.47 A, I _Y = 385.90 A, I _B = 3124.93A At Boinda end Fault Distance-18.6 KM Rairakhol availed PS from Sambalpur at 20:42 Hrs
44	Kendrapara	14.10.2020	06:29	14:13	07:54	132/33KV 40MVA TRF-II	TRIPPEED ON DIFFERENTIAL RELAY WITH M/R DUE TO 132KV R -PH CT BRUST AND CHARGED AFTER REPLACEMENT OF NEW CT.	Kendrapara, Pattamundai, Olaver, Chandbali	00:06	0.005563	
45	Kendrapara	14.10.2020	06:29	06:39	00:10	132/33KV 40MVA TRF-IV	132KV SIDE AND 33 KV SIDE TRIPEEED WITH M/R DUE TO BRUST OF 132KV R -PH CT OF TRF-II				
46	Kendrapara	14.10.2020	06:29	06:37	00:08	132KV KENDRAPARA - PARADEEP CKT-II	TRIPPEED ON LBB WITH M/R DUE TO BRUST OF 132KV R -PH CT OF TRF-II				
47	Kendrapara	14.10.2020	06:29	06:35	00:06	132KV KENDRAPARA - MARSHAGHAI CKT-I	TRIPPEED ON LBB WITH M/R DUE TO BRUST OF 132KV R -PH CT OF TRF-II				
48	Kendrapara	14.10.2020	06:29	06:35	00:06	132KV KENDRAPARA-PATTAMUNDAI SC LINE	TRIPPEED ON LBB WITH M/R DUE TO BRUST OF 132KV R -PH CT OF TRF-II				
49	Palaspanga	14.10.2020	13:36	13:37	0:01	132KV RTSS-KJR Feeder	O/C (R PH), Ia=222.1A, Ib=149.3A, Ic=92.1A,Inm = 7.05A, Ind= 5.63A	RTSS Keonjhar	0:01	0.000114	O/C TRIP

50	Palaspanga	14.10.2020	14:42	14:43	0:01	132KV RTSS-KJR Feeder	O/C (R PH), Ia=227.5A, Ib=166.2A, Ic=70.33A, Inm = 7.143A, Ind= 6.584A	RTSS Keonjhar	0:01	0.000114	O/C TRIP
51	Saintala	15.10.2020	03:32	03:37	00:05	132KV Tushura-Saintala Fdr.	DUE TO EARTHFAULT AT B-phase IN KESINGA B/R & ALSO PULLED OUT 132/33KV SOLAR B/R & 132KV SAINTALA B/R AT TUSHRA GSS .	Saintala, Khariar, Nuapada, Trac., Kantabanji, Trac.	0:05 0:09	0.002197	
52	Palaspanga	15.10.2020	16:08	16:01	0:02	132KV RTSS-KJR Feeder	O/C (R PH), Ia=220.7A, Ib=160.1A, Ic=69.12A, Inm = 6.805A, Ind= 5.168A	RTSS Keonjhar	0:02	0.000227	O/C TRIP
53	Rayagada	15.10.2020	19:04	19:49	00:45	132KV podagada-Rayagada Rayagada-Akhusing S.C Line	Tripped of Podagad end & JNR With O/C	podagada, Rayagada, Akhusing, Parlakhemundi	00:16	0.008180	Conductor y Phase CVT of JNR incoming side snapped at podagada end. Rayagada availed PS from TVL et 19:20Hrs and extended to Poadagada and Akhusingh.
54	Nuapada	16.10.2020	13:38:00	13:45	00:07	132KV Saintala-Khariar Line	Tripped From saintala	Khariar, Nuapada, Nuapada Trac., Kantabanji, KantabanjiTrac., Kesinga, POWMEX, Kesinga Trac., BhawaniPatna, Lanjigarh RTSS, Junagarh.	00:07	0.011680	Earth Fault on R-Phase at Saintala Grid. Kesinga was availing PS from Saintala end.
55	Nuapada	16.10.2020	20:10:00	20:17	00:07	132KV Saintala-Khariar Line	Tripped From saintala Grid	Khariar, Nuapada, Nuapara Trac., Kantabanji, Kantabanji Trac.	00:07	0.004893	Earth Fault on B-Phase at Saintala Grid.
56	Therubali	17.10.2020	06:18	07:03	00:45	132KV Therubali-JKPM	Back up operated with B-Phase over current at Therubali end. Under voltage relay operated at JK end as per the information received from M K Patra	JK Paper	00:45	0.000003	
57	Palaspanga	17.10.2020	14:02	14:04	0:02	132KV RTSS-KJR Feeder	O/C (R PH), Ia=221.3A, Ib=193.9A, Ic=37.18A, Inm = 7.307A, Ind= 5.652A	RTSS Keonjhar	0:02	0.000227	O/C TRIP
58	Atri	17.10.2020	02:31	02:38	00:07	132KV Atri- Samuka	DP, Yph-N, 1.95 kA, 54.6 km	Samuka, Puri, Samangara, Satasankha	00:07	0.005176	
59	Samangara	17.10.2020	01:05	07:28	06:23	132/33 KV, 20 MVA Power Trf-I	TC-1 Faulty, trip relay 86 Operated	Samangara	00:19	0.000005	
60	Sundargarh	18.10.2020	03:17	03:45	00:28:00	132/33kV 40MVA Transformer No	E/F,Y,B-phase, Ir=0.11 KA, Iy:1.15 KA, Iy:0.82 KA (B-phase limb of 33 KV TRF-III Breaker burst)	Sundargarh	00:28	0.009816	
61	Sundargarh	18.10.2020	03:17	03:46	00:29:00	132/33kV 20MVA Transformer No	E/F,Y,B-phase, Ir=0.06 KA, Iy:0.58 KA, Iy:0.56 KA (B-phase limb of 33 KV TRF-III Breaker burst)				
62	Sundargarh	18.10.2020	03:17	08:56	05:39:00	132/33kV 20MVA Transformer No	E/F,Y,B-phase (B-phase limb of 33 KV TRF-III Breaker burst)				
63	Brajrajnagar	19.10.2020	15:59	16:46	00:47	132/33 KV TRF 1 (NGEF)	O/C(R PH)	Brajrajnagar	00:35	0.016456	Due to Aryan feeder
		19.10.2020	15:59	17:16	01:17	132/33 KV TRF 3 (HHE)	E/F				
		19.10.2020	15:59	17:28	01:29	132/33KV TRF 4 (T & R)	E/F				
		19.10.2020	15:59	16:34	00:35	132/33 KV TRF 5 (NGEF)	E/F				

64	Bolangir	19.10.2020	19:04	19:06	00:02	132KV Bolangir-Tusura Fdr.	O/C	Acme, Tusura, Deogaon Trac, Saintala,Khariar, Nuapara, Nuapara Trac, Kantabanji, Kantabanji nTrac.	00:02	0.001925	
65	Therubali	19.10.2020	19:45	19:52	00:07	132KV Therubali-Muniguda-Vedanta-Kesinga feeder.	Trip ABC(Over current.),IA-513AMP, IB-518AMP, IC-509AMP.	Muniguda, VAL Lanj., Kesinga, Trac., POWMEX, Bhawanipatna, Lanj. RTSS, Junagarh.	00:07	0.007509	
66	Bolangir	19.10.2020	20:12	20:14	00:02	132KV Bolangir-Tusura Fdr.	O/C	Acme, Tusura, Deogaon Trac, Saintala,Khariar, Nuapara, Nuapara Trac, Kantabanji, Kantabanji nTrac.	00:02	0.001925	
67	Palaspanga	19.10.2020	22:02	22:21	0:01	132KV RTSS-KJR Feeder	O/C (R PH), Ia=220.1A, Ib=156A, Ic=82.36A,Inm = 7.218A, Ind= 7.194A	RTSS Keonjhar	0:01	0.000114	O/C TRIP
68	Rayagada	20.10.2020	17:41	17:43	00:02	132KV Rayagada RTSS Feeder	Tripped on O/C , C	Rayagada	00:02	0.000323	Tripped on O/C , C
69	Saintala	21.10.2020	04:52	05:01	00:09	132KV Tushura-Saintala Fdr.	DUE TO OVERCURRENT AT TUSHRA GSS ALONG TRIP TO 132KV KESINGA B/R ON E/F & 33/132 KV SOLAR B/R TRIP ON HV E/F.	Saintala, Khariar, Nuapada, Trac., Kantabanji, Trac.	0:09 0:11	0.003955 0.0031	Pulled out due to DC Failure
70	Dabugaon	21.10.2020	10:49	11:22	00:33	132KV Tentulikhunti-Dabugaon Fdr.	LBB	Dabugaon, Umerkote	00:33	0.004188	
71	Chandpur	21.10.2020	13:10	13:52	00:42	132/33kV Transformer No-1	Tripped on Spare,LBB Operation,86A	Chandpur	00:41	0.006134	
72		21.10.2020	13:10	13:51	00:41	132/33kV Transformer No-2	Tripped on Gen trip,O/C,E/F,LBB,86A				
73		21.10.2020	13:10	13:53	00:43	132/33kV Transformer No-3	Tipped on Differential E/F protection OPTD, Group-A 86A,Group-B 86B,80C				
74	Palaspanga	23.10.2020	17:52	17:53	0:01	132KV RTSS-KJR Feeder	O/C (R PH), Ia=220.0A, Ib=180.8A, Ic=45.68A,Inm = 7.071A, Ind= 6.263A	RTSS Keonjhar	0:01	0.000114	O/C TRIP
75	Bolangir(New)	24.10.2020	13:18	13:30	00:12	220KV Bargarh New-Bolangir New	Tripped on distance protection.	Bargarh New, Ghens	00:12	0.004640	220KV Katapali-Bargarh New ckt also tripped at the same time as a result of which power supply failed completely to GSS Bargarh New.
76	Jharsuguda	27.10.2020	03:36	03:38	00:02	132 kv Railway fdr	DIR O/C	Jharsuguda Trac.	00:02	0.000466	
77	Jharsuguda	27.10.2020	03:42	03:45	00:03	132 kv Railway fdr	Dir O/C,	Jharsuguda Trac.	00:03	0.000699	

78	Angul	29.10.2020	15:17	17:03	01:46	132 KV Angul-TTPS	IL1=0.15 KA, IL2=0.17 KA,IL3=0.64 KA	Angul, MCL, Boinda, Trac, Rairakhol, Trac	01:22 0:20	0.060095 0.007113	At TTPS end trippen on distance protection with fault current 4.47 KA , fault distance 9.044KM, fault loop L3N. Simultaneously 132 KV Chainpal-Angul fdr tripped on E/F at both ends. Due to failure of both the sources of grid SS, Angul, all other fdrs hand tripped. Line patrolling carried out, it was found that one big mango tree has been uprooted by the railway authority which was in close proximity to 132 KV TTPS-Angul and 132 KV Chainpal-Angul double circuit tower. 132 KV Chainpal-Angul fdr tripped on E/F at both ends. Due to failure of both the sources of grid SS, Angul, all other fdrs hand tripped. Line patrolling carried out, it was found that one big mango tree has been uprooted by the railway authority which was in close proximity to 132 KV TTPS-Angul and 132 KV Chainpal-Angul double circuit tower. Rairakhol & Boinda availed PS from Sambalpur at 15:37 Hrs.
	Angul	29.10.2020	15:17	16:39	01:22	132 KV Angul-Chainpal Fdr	E/F				
79	Samangara	30.10.2020	18:14	18:27	00:13	132KV Samangara -Satasankha Ckt-I	O/C,E/F,67,67N, master trip 86 optd.	Satasankha	00:13	0.000000	
80	Samangara	30.10.2020	18:14	18:28	00:14	132KV Samangara -Satasankha Ckt-II	O/C,E/F,67,67N, II1=0,II2=1.48 KA,II3=0, master trip 86 optd.				
81	Bolangir	31.10.2020	17:30	17:34	00:04	132KV Balangir-Tusura Fdr.	O/C	Acme, Tusura, Deogaon Trac, Saintala,Khariar, Nuapara, Nuapara Trac, Kantabanji, Kantabanji nTrac.	00:04	0.003851	
82	Saintala	31.10.2020	23:49	23:51	00:02	132KV Tushura-Saintala Fdr.	DUE TO EARTHFAULT AT B-phase IN KESINGA B/R & ALSO PULLED OUT 132/33KV SOLAR B/R & 132KV SAINTALA B/R AT TUSHRA GSS .	Saintala, Khariar,	0:02	0.000879	
								Nuapada, Trac., Kantabanji, Trac.	0:06	0.001691	

83	Angul	29.10.2020	15:17	17:03	01:46	132 KV Angul-TTPS	IL1=0.15 KA, IL2=0.17 KA,IL3=0.64 KA				At TTPS end trippen on distance protection with fault current 4.47 KA , fault distance 9.044KM, fault loop L3N. Simultaneously 132 KV Chainpal-Angul fdr tripped on E/F at both ends. Due to failure of both the sources of grid SS, Angul, all other fdrs hand tripped. Line patrolling carried out, it was found that one big mango tree has been uprooted by the railway authority which was in close proximity to 132 KV TTPS-Angul and 132 KV Chainpal-Angul double circuit tower.
84	Therubali	30.10.20	13:38	13:48	00:10	220KV Therubali-Laxmipur ckt-2	CG-T, ZONE-1, 8.78KM,IC-6.125KM,IG-6.287KA at Therubali end.C-N,ZONE-1,37.5KM,Ic-2.802KA at laxmipur end.				
85	Samangara	30.10.2020	18:14	18:28	00:14	132KV Samangara -Satasankha Ckt-II	O/C,E/F,67,67N, II1=0,II2=1.48 KA,II3=0, master trip 86 optd.				
86	Barpali	31.10.2020	16:05	16:10	00:05	132KV TRF-3	O/C				

STATEMENT OF UFR OPERATION IN GRIDCO SYSTEM DURING THE MONTH OF OCTOBER-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 OCTOBER - 2020		
Sl. No	Date	Details of event
1	21.10.20	At 13:04 Hrs, 40 MVA , 132/33 kV Power Transformer - IV charged at Grid S/S, Sambalpur.
2	22.10.20	At 15:49 Hrs, 40 MVA , 132/33 kV Power Transformer - II charged at Grid S/S, Udala.
3	22.10.20	At 13:41 Hrs, 40 MVA , 132/33 kV Power Transformer - III charged at Grid S/S, Kalunga
4	23.10.20	At 16:05 Hrs, 132 kV RTSS Charibatia bay charged at Grid S/S, Choudwar.
5	28.10.20	At 13:47 Hrs, 132 kV Nuapada bay charged at Grid S/ S, Padampur.
6	28.10.20	At 18:50 Hrs, 132 kV Padampur bay charged at Grid S/ S, Nuapada.
7	30.10.20	At 14:40 Hrs, 132/33 kV Grid S/S,Brajabiharipur charged. Subsequently 40 MVA 132/33 kV Power Transformer II & I charged at 16:05 Hrs & 16:34 Hrs respectively.
8	30.10.20	At 19:32 Hrs, 132/33 kV Grid S/S, Pratapsasan charged by LILO arrangement in 132 kV Kesura - Nimapada ckt. At 20:12 Hrs - 40MVA, 132/33 kV Power Transformer -I Charged at Grid S/S, Pratapsasan.
9	30.10.20	At 13:30 Hrs, 132 kV Dhanamandal RTSS bay charged at Grid S/S, Chandikhole.