

SYSTEM PERFORMANCE REPORT



SEPTEMBER'2020

,SLDC, OPTCL
BHUBANESWAR – 17

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SUMMARY REPORT FOR SEPTEMBER- 2020

A. Voltage Profile

<u>220 KV</u>			<u>Date & Time</u>	<u>Location</u>
Maxm. -	239.19 kV	02.09.2020 06:00Hrs	Laxmipur	
Minm. -	>240 KV 203.34 kV	11.09.2020 10:45 Hrs	Nil. Bargarh N	
<u>132 KV</u>	Maxm. -	< 200 KV 153.86 kV	01.09.2020 17:30 Hrs	Nil. Paralakhemundi
	Minm. -	>145 KV 96.47 kV	08.09.2020 18:45 Hrs	Paralakhemundi Khariar
		< 120 KV		Bhadrak, Khariar, Paralakhemundi, Puri.

B. Frequency Profile

		<u>Date & Time</u>
Maxm. -	50.19 Hz	26.09.2020 06:02 Hrs.
Minm. -	49.65 Hz	24.09.2020 18:50 Hrs.
Average -	50.00 Hz	
% of time the freq. is within 49.9 Hz to 50.05 Hz (IEGC band)	-	83.56%
% of time the freq. is > 50.05 HZ	-	12.34%
% of time the freq. is ≤49.9 HZ	-	4.10%
% of time the freq. is < 48.5 HZ	-	0.00%

B. Demand Profile

Peak System Demand	4689.74 MW	At 22:00 Hrs on 19.09.2020
Minimum System Demand	2938.18 MW	At 04:00 Hrs on 02.09.2020
Average System Demand	3850 MW	

C. Major events

<u>Sl. No</u>	<u>Date</u>	<u>Details of event</u>
1	01.09.2020	At 20:56 Hrs, 40 MVA , 132/33 kV Power Transformer -I charged at 132/33 kV Unit-
2	02.09.2020	At 17:57 Hrs, 132 kV Marsaghai - Kendrapara RTSS ckt -II charged.
3	01.09.2020	At 20:57 Hrs, 132 kV side U/G cable of Auto Transformer - I & II charged from 132 kV Switchyard of Grid S/S, Kesinga .
4	02.09.2020	At 18:04 Hrs, 160 MVA, 220/132 kV Auto Transformer - II charged at Grid S/S, Kesinga.
5	02.09.2020	At 18:21 Hrs, 220 kV Bus -I & Bus -II charged at Grid S/S, Kesinga.
6	21.09.2020	At 16:35, 33 kV Bargarh(New)- Aditya Birla Solar feeder -I charged. At 16:37 Hrs, 33 kV Bargarh(New)- Aditya Birla Solar feeder -II charged.
7	30.09.2020	At 18:15, 132 kV Bhalumaska RTSS feeder bay charged at Grid S/S Therubali.

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 (Mijafarpur) (BIHAR)	2x195	8.53	33.27		
9	DARLIPALI STPS	1X800	58.82	470.56		
	TOTAL ISGS			1775.05		

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

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

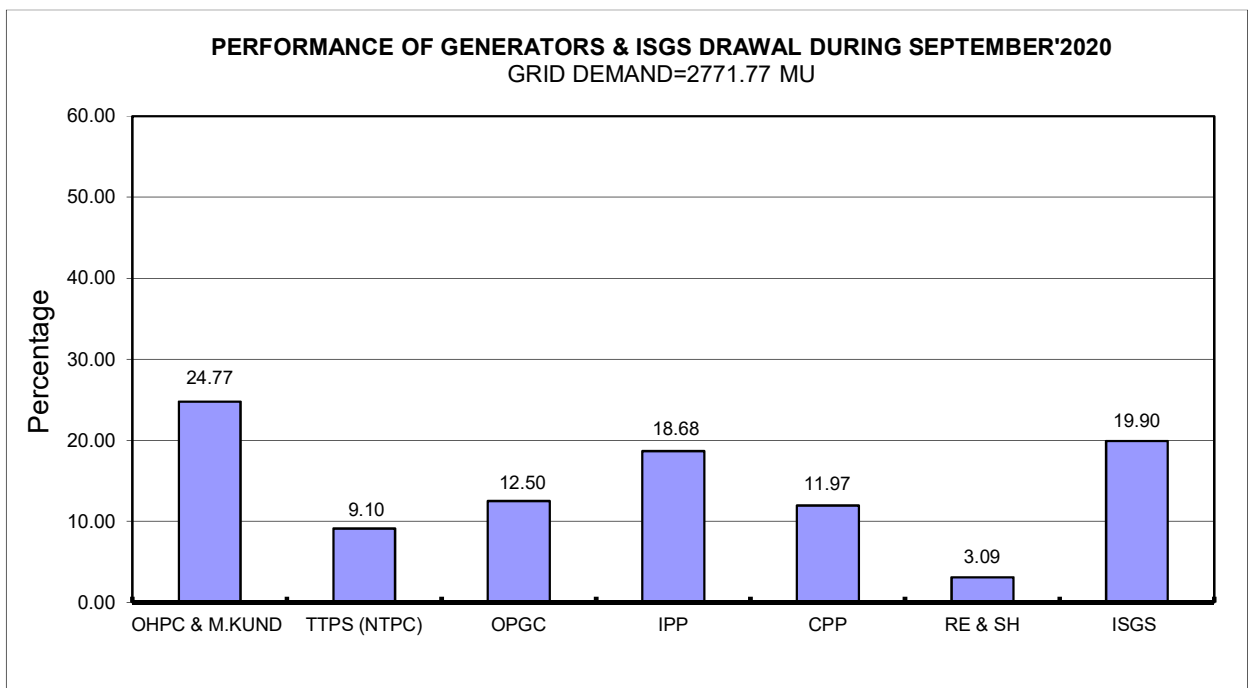
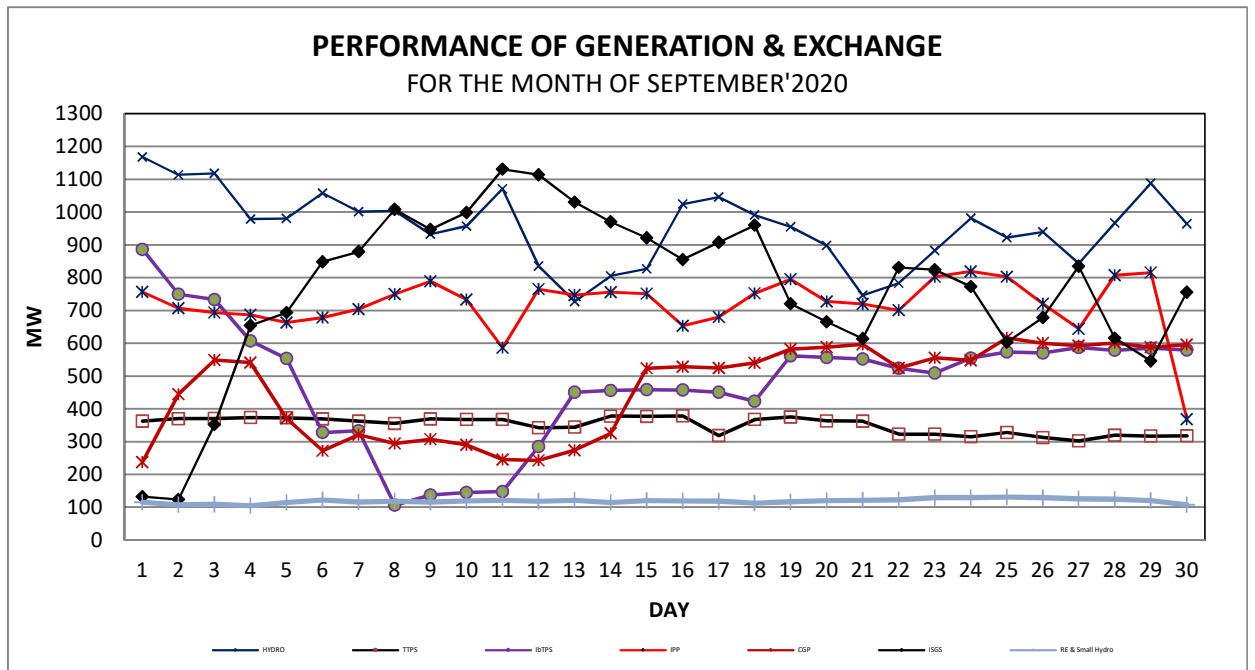
CAPACITY OF IPP, CPP, SMALL HYDRO & RENEWABLE

SL.No	POWER STATION	INSTALLED CAPACITY	TOTAL	TYPE	VOLTAGE LEVEL
IPP & SMALL HYDRO					
1	MEENAKSHI POWER LTD.	3 X 4 + 2 X 12.5	37	SMALL HYDRO	132 kV
2	ORISSA POWER CONSORTIUM LTD.	4 X 5	20	SMALL HYDRO	132 kV
3	VEDANTA LTD., JHARSUGUDA(IPP)	1 X 600	600	THERMAL	400kV
4	GMR KAMALANGA ENERGY LTD.	3 X 350	1050	THERMAL	400kV
5	JITPL	2 X 600	1200	THERMAL	400kV
6	NBVL (MERAMUNDALI)	1 X 60=60	60	THERMAL	132 kV
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
10	FACOR POWER	1X 45	45	THERMAL	132 kV
11	HPCL(HINDALCO),(HIRAKUD)	1 X 67.5 + 3 X 100	367.5	THERMAL	132 kV
12	IMFA(CHOUDWAR)	2 X 54 + 1 X 30 + 2 X 60	258	THERMAL	132 kV
13	IFFCO (PARADEEP)	2 X 55	110	THERMAL	132 kV
14	JINDAL STAINLESS LTD., DUBURI	2 X 125 + 1 X 13	263	THERMAL	220 kV
15	JINDAL STEEL & POWER LTD., ANGUL	6 X 135	810	THERMAL	220 kV
16	NINL (DUBURI)	2 X 19.25 + 1 X 24	62.5	THERMAL	220 kV
17	MAHAVIR FERRO ALLOYS PVT. LTD.	1 X 12	12	THERMAL	33 kV
18	MAITHAN ISPAT NIGAM LTD., Jajpur Rd	1 X 30	30	THERMAL	220 kV
19	MSP METTALLICS LTD.	1 X 25	25	THERMAL	132 kV
20	NALCO(ANGUL)	10 X 120	1200	THERMAL	220 kV
21	NALCO(DAMANJODI)	18.5 X 4	74	THERMAL	132 kV
22	NARBHERAM POWER & STEEL PVT.	1 X 8	8	THERMAL	132 kV
23	NBVL (MERAMUNDALI)	1 X 30 + 1X 64	94	THERMAL	132 kV
24	OCL INDIA LTD., RAJGANGPUR	2 X 27	54	THERMAL	132 kV
25	OISL, RAJGANGPUR	1 X 35	35	THERMAL	132 kV
25	ORISSA SPONGE IRON & STEEL LTD.	1 X 24	24	THERMAL	132 kV
26	PATTANAIK STEEL, (KEONJHAR)	1 X 15	15	THERMAL	33 kV
27	RATHI STEEL & POWER LTD. (Katapalli)	1 X 20	20	THERMAL	33 kV
28	RSP(ROURKELA)	2 X 60 + 4 X 25	220	THERMAL	220 kV
29	SEVEN STAR STEELS LTD.	1 X 8	8	THERMAL	33 kV
30	SHYAM DRI, (PANDOLI, SAMBALPUR)	1 X 30	30	THERMAL	132 kV
31	SMC POWER GENERATION LTD.	1 X 8 + 1 X 25	33	THERMAL	132 kV
32	SREE GANESH	1 X 32	32	THERMAL	132 kV
33	TATA SPONGE IRON (JODA)	1 X 18.5 + 1 X 7.5	26	THERMAL	220 kV
34	TATA POWER & STEEL, (K NAGAR)	2 X 67.5	135	THERMAL	220 kV
35	UTKAL ALUMINA, LAXMIPUR	3x30	90	THERMAL	220 kV
36	VEDANTA LTD.(SEZ),JHARSUGUDA	3 X 600	1800	THERMAL	400 kV
37	VEDANTA (JHARSUGUDA))	9 X 135	1215	THERMAL	220 kV
38	VEDANTA (LANJIGARH)	3 X 30	90	THERMAL	132 kV
39	VISA STEEL LTD., (NEW DUBURI)	3 X 25	75	THERMAL	220 kV
40	YAZDANI STEEL & POWER.	1 X 10	10	THERMAL	33 kV
		TOTAL	9850		

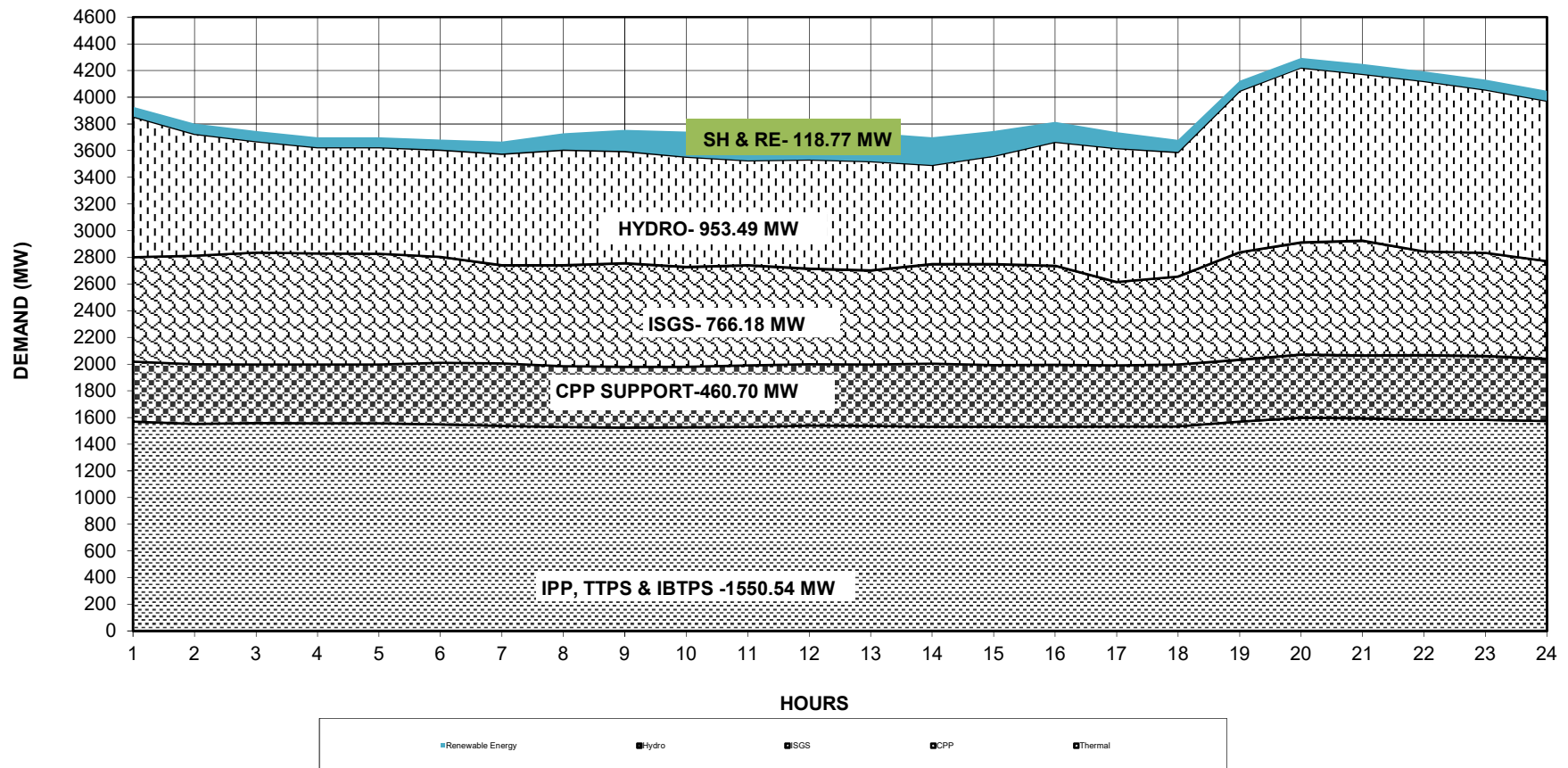
RENEWABLE PROJECTS

SL.No	POWER STATION	INSTALLED CAPACITY	TOTAL	TYPE		CONNECTIVITY VOLTAGE
1	ABACUS HOLDINGS PVT. LTD, SONEPUR	1 MW	1	SOLAR		11 kV
2	AFTAAB SOLAR PVT. LTD. ,BOLANGIR (N)	5 MW	5	SOLAR		33 kV
3	ALEX GREEN ENERGY PVT LTD. PATNAGARH	5 MW	5	SOLAR		33 kV
4	JAY IRON & STEEL, BAMARA	1 MW	1	SOLAR		11 kV
5	J.K. PAPER LTD., THERUVALI	25 MW	25	BIOMASS		132 kV
6	M.G.M. GREEN ENERGY., CHANDPUR	1 MW	1	SOLAR		11 kV
7	MOLISATI VINIMAY PVT. LTD. BARKOTE	1 MW	1	SOLAR		11 kV
8	OCL SOLAR, SALIPUR	2.5 mw	2.5	SOLAR	SELF	132 kV
9	VIVACITY R.E PVT. LTD, CHANDPUR	1 MW	1	SOLAR		11 kV
10	RAAJRATNA ENERGY PVT. LTD. BOLANGIR (N)	1 MW	1	SOLAR		11 kV
11	S. N. MOHANTY, BARANGA, CHANDAKA	1 MW	1	SOLAR		11 kV
12	SHALIVAHAN GREEN ENERGY LTD.	20 MW	20	BIOMASS		132 kV
13	MAHAVIR FERRO ALLOYS (SOLAR), BANEI	1 MW	1	SOLAR		33 kV
14	MCL, BURLA, KATAPALI	2 MW	2	SOLAR	SELF	11 kV
15	ACME SOLAR, MURSING, BOLANGIR-SAINTALA	25 MW	25	SOLAR		132 kV
16	GEDCOL, MANMUNDA, SONEPUR	20 MW	20	SOLAR		33 kV
17	JYOTI SOLAR SOLUTIONS(P) LTD	10 MW	10	SOLAR		33 kV
18	SADIPALI SOLAR	20 MW	20	SOLAR		33 kV
19	BEL, SAINTALA	7.5 MW	7.5	SOLAR		132 kV
20	DAKSHIN ODISHA URGAL PVT. LTD, PADMAPUR	40 MW	40	SOLAR		132 kV
21	VENTO POWER& ENERGY LTD, Dendugoda, KESINGA	2x40 MW	80	SOLAR		132 kV
22	VENTO POWER& ENERGY LTD, Tusara	2x40 MW	80	SOLAR		132 kV
23	VENTO POWER& ENERGY LTD, Tentulikhunti	1x40 MW	40	SOLAR		132 kV
24	IMFA SOLAR, Theruvali	4.5 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			
	GRAND TOTAL (SMALL HYDRO,IPP & CPP)		19324.05			

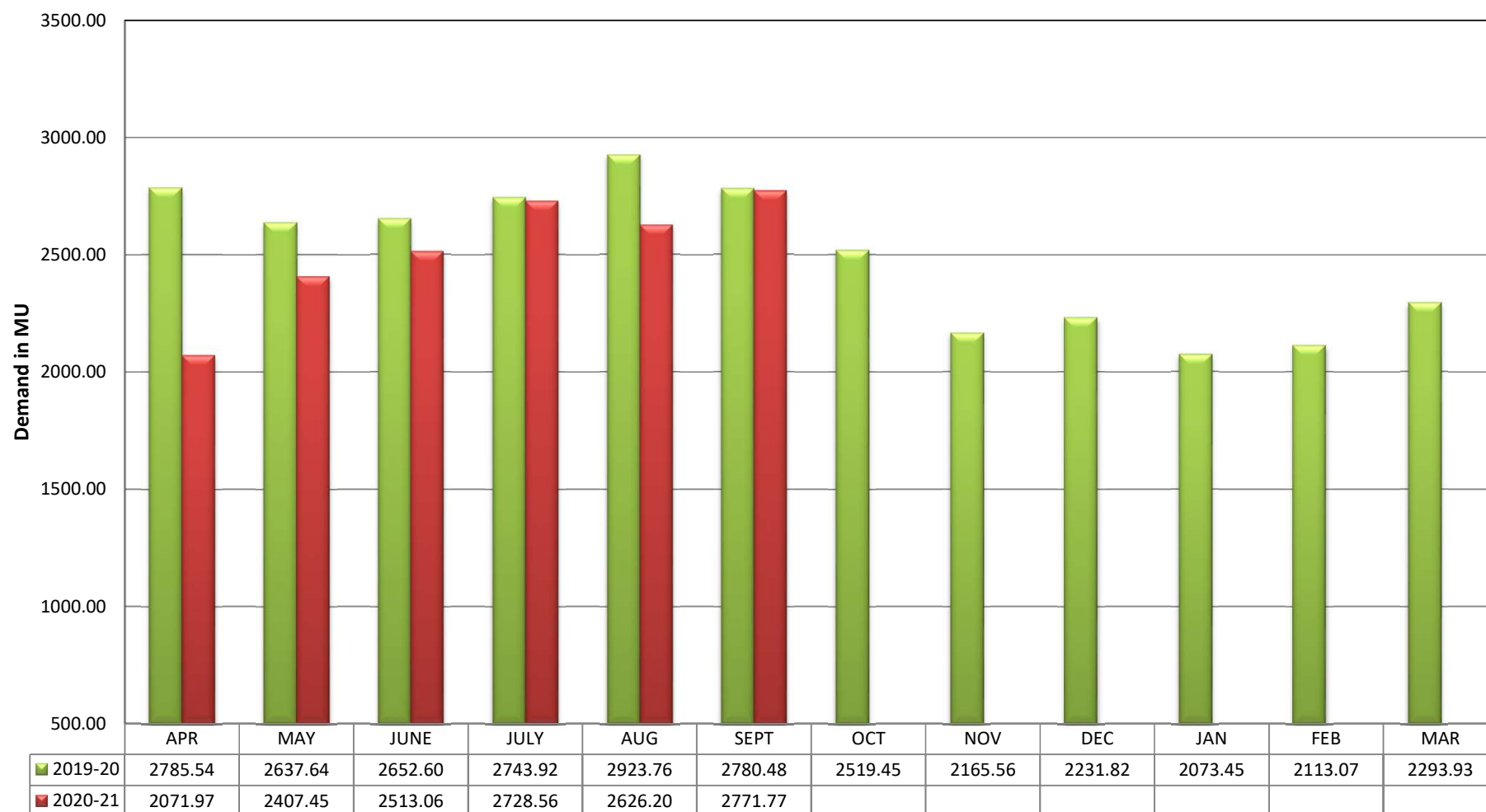


AVERAGE GRID DEMAND [HOURLY] FOR THE MONTH OF SEPTEMBER'2020

Average Demand=3849.68 MW



COMPARISON SYSTEM DEMAND WITH PREVIOUS FINANCIAL YEAR



MONTHLY GENERATION & DEMAND REPORT FOR THE STATE OF ODISHA IN THE MONTH OF SEPTEMBER- 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	33.403	22.445	22.539	0.000	0.000	0.000	0.000	78.387	108.871	0.237	110.56	29	17.00
2	Chipilima	13.507	12.558	11.368	-	-	-	-	-	37.433	51.990	0.111	60.69	30	20.00
4	Balimela	0.000	0.000	28.290	0.000	28.613	17.303	37.023	38.956	150.185	208.590	0.569	297.68	27	19.00
5	Rengali	33.944	27.721	34.887	35.151	33.195	-	-	-	164.898	229.024	0.130	253.46	21	12.00
6	Upper Kolab	19.284	25.285	0.000	14.787	-	-	-	-	59.356	82.439	0.108	227.82	28	19.00
7	Upper Indravati	45.805	51.099	45.354	33.155	-	-	-	-	175.413	243.629	3.487	599.34	23	20.00
8	Total Hydro (OHPC)	-	-	-	-	-	-	-	-	665.672	924.544	-	-	-	-
9	Machhakund (Orissa drawal)	-	-	-	-	-	-	-	-	27.494	38.186	-	48.94	28	19.00
10	Total Hydro	-	-	-	-	-	-	-	-	693.166	962.730	-	1550.13	19	22.00
11	TTPS-I	0.000	34.472	40.510	41.423	-	-	-	-	116.405	161.674	-	171.51	14	6.00
12	TTPS-II	76.548	76.327	-	-	-	-	-	-	152.875	212.326	-	215.17	21	1.00
13	Total TTPS	-	-	-	-	-	-	-	-	269.280	374.000	30.788	382.88	14	12.00
14	IBTSP-I	114.04	46.567	-	-	-	-	-	-	160.608	223.067	20.081	906.63	1.00	7.00
15	IBTSP-II	-	-	35.810	202.509	-	-	-	-	238.319	330.999	22.521	-	-	-
16	Total IBTSP	-	-	-	-	-	-	-	-	398.927	554.065	-	-	-	-
17	IPPs & CGPs Support	-	-	-	-	-	-	-	-	876.528	1217.400	-	-	-	-
18	Total Thermal & IPPs & CGP	-	-	-	-	-	-	-	-	1544.735	2145.465	-	2409.29	25	18.00
19	Injection by Renewable projects	37.33096	-	-	-	-	-	-	-	37.331	51.849	-	-	-	-
20	Total self generation	-	-	-	-	-	-	-	-	2275.231	3160.043	78.032	3976.64	19	22.00

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 :-

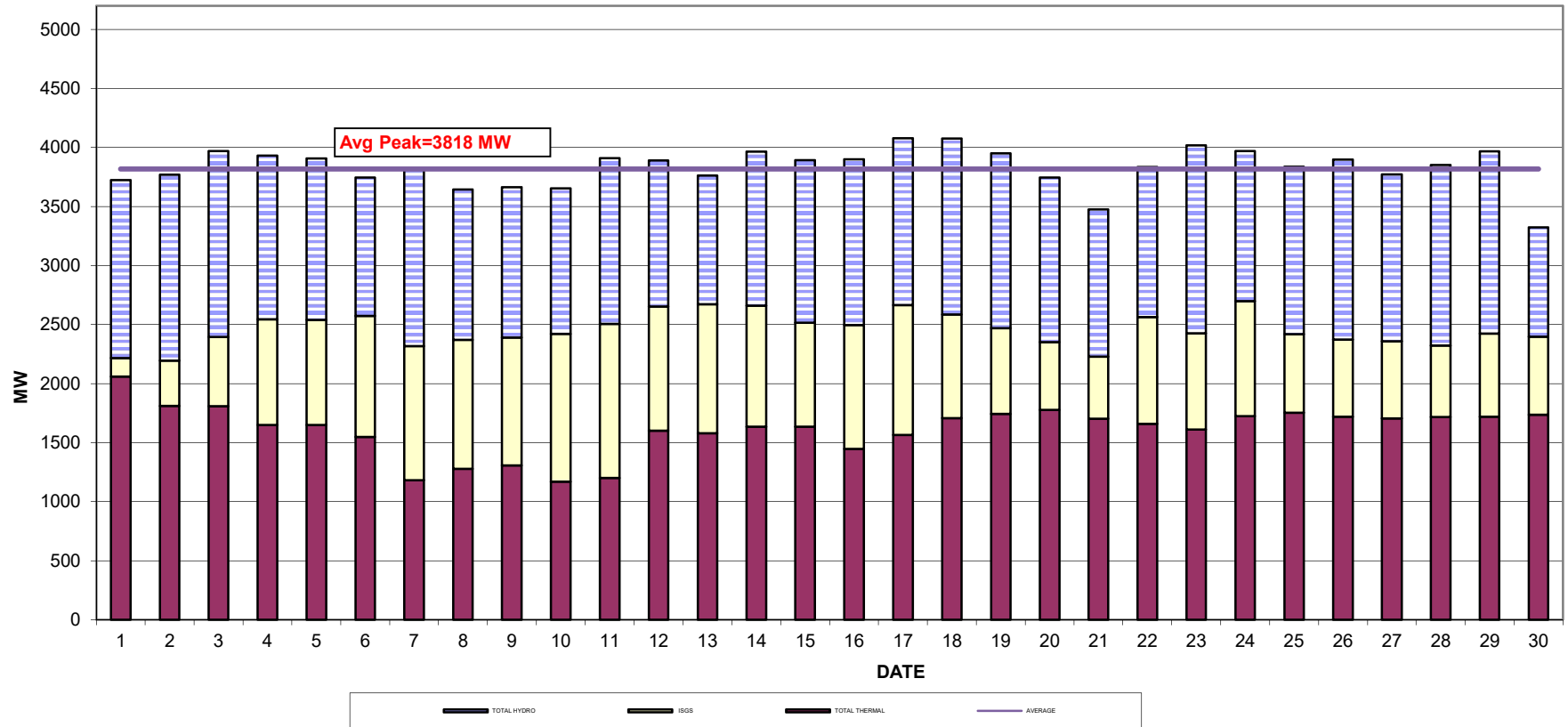
(C)EXCHANGE OF ENERGY WITH CENTRAL SECTOR

Sl. No.	Name of IPP / CGPs	Injection in (MU)	Average (MW)	Maximum Injection (MW)	DATE	TIME (Hr.)	Name of the Tie line	Net	Avg	Maximum	DATE	TIME	Maximum	DATE	TIME
								MU	MW	Import (MW)			Export (MW)		
1	Aarti Steel Ltd, ghantikhal	0.000	0.000	26.55	15	8.00	132KV JODA-KENDUPOSI	-13.28	-18.44	-9.74	9	17.00	-24.93	11	20.00
2	ACC	0.000	0.000				132KV KALABADIA-BANGIRIPOSI	36.78	51.09	75.13	16	22.00	-65.88	26	19.00
3	Action Ispat	0.000	0.000				132KV KALABADIA-BARIPADA	20.64	28.66	39.03	17	23.00	-0.01	11	11.00
4	Aryan Ispat,	0.743	1.031				132 KV BHOGRAI-KUCHEI	9.82	13.64	20.67	19	22.00	1.20	1	11.00
5	BPPL	74.258	20.986	119.55	29	20.00	132 KV JALESWAR-KUCHEI	13.45	18.67	27.90	4	16.00	0.00	7	17.00
6	BPSL, Jharsuguda	15.110	20.986	96.39	5	7.00	220KV JODA-JAMSHEDPUR	-36.37	-50.51	20.11	24	16.00	-110.84	12	20.00
7	TSBSL, Meramundali	15.332	21.295	74.71	9	18.00	220KV JODA-RAMCHANDRAPUR	45.21	62.79	103.35	7	10.00	-0.37	18	17.00
8	GMR Kamalanga Energy Ltd.(IPP)	209.802	291.392				220KV RENGALI SV- RENGALI P.G-I	-7.85	-10.90	22.88	4	21.00	-64.94	21	14.00
9	HINDALCO, Hirakud	1.350	1.875				220KV RENGALI SV- RENGALI P.G-II	-13.38	-18.59	27.84	4	21.00	-88.52	11	18.00
10	IFFCO, Paradeep	0.0002	0.000				220KV JAYANAGAR JEYPORE PG-I	-55.33	-76.84	2.63	14	14.00	-166.46	19	22.00
11	IMFA, Choudwar	19.609	27.235	40.88	25	20.00	220KV JAYANAGAR JEYPORE PG-II	-54.83	-76.15	2.63	14	14.00	-166.46	19	22.00
12	JINDAL, New Duburi	4.395	6.104	16.28	22	1.00	220KV RENGALI P.H-KANIHA	-83.28	-115.67	0.25	11	14.00	-169.54	23	12.00
13	JSPL, Angul	25.648	35.623	89.03	18	11.00	220KV TTPS-KANIHA	51.82	71.97	122.90	12	20.00	5.21	10	4.00
14	Mahavir Ferro Alloys	0.000	0.000				220KV MERAMUNDALI-KANIHA-I	62.11	86.26	125.50	12	20.00	1.23	28	14.00
15	Malithan Ispat Ltd.	0.000	0.000				220KV MERAMUNDALI-KANIHA-II	62.60	86.94	125.74	12	20.00	45.33	31	7.00
16	Meenakshi Power Ltd. (SH)	29.562	41.058				220KV TARAKARA-BISRA-I & II	78.62	109.20	207.34	26	12.00	-1.33	30	24.00
17	MSP, Jharsuguda	0.000	0.000				220 KV KALABADIA-BALASORE-I&II	114.91	159.59	224.78	11	23.00	76.64	1	13.00
18	NALCO, Angul	10.834	15.048	65.04	10	20.00	220KV KATAPALI - BOLANGIR(PG)	-72.77	-101.07	0.06	11	13.00	-204.24	20	15.00
19	Nartheram	0.021	0.029				220KV SADEIPALI - BOLANGIR(PG)	86.53	120.18	277.23	23	17.00	-34.00	27	14.00
20	NBVL, Kharag Prasad	1.017	1.413	12.49	6	2.00	220KV BUDHIPADAR-KORBA-I	-33.77	-46.91	15.41	6	19.00	-126.97	19	7.00
21	NINL, Duburi	0.000	0.000				220KV BUDHIPADAR-KORBA-II	47.55	66.04	113.79	14	1.00	-126.97	19	7.00
22	OCL	0.763	1.060				220KV BUDHIPADAR-KORBA-III	43.26	60.08	103.54	14	1.00	0.04	2	8.00
23	QPCL, Samal (SH)	9.250	12.847				220KV ATRI- PANDIVIL	152.50	211.81	268.89	19	15.00	-0.81	2	8.00
24	BPPLT	14.892	20.684				220KVSAMANGHARA- PANDIVIL	0.00	0.00	0.02	19	16.00	146.86	1	8.00
25	PSAL, Keonjhar	0.000	0.000				220KV KEONJHAR 220KV KEONJHAR	2.75	3.83	10.03	27	20.00	0.00	27	20.00
26	RSP, Rourkela	0.000	0.000				220KV KEONJHAR 220KV KEONJHAR	2.33	3.23	9.78	18	20.00	0.00	18	20.00
27	Shree Ganesh	0.227	0.315				400KV INDRAVATI P.H-P.G	-40.53	-56.30	97.07	14	15.00	-220.30	26	21.00
28	Shyam Metalics	0.795	1.104				400KV MERAMUNDALI-KANIHA	297.66	413.41	966.62	15	17.00	-99.12	21	7.00
29	SMC Power	0.019	0.026				400KV MERAMUNDALI-ANGUL-I&II	-93.77	-130.23	-31.41	18	23.00	-223.96	27	6.00
30	TSPL	15.332	21.295				400KV MENDHASAL - PANDIABIL-I &II	-154.00	-213.89	-44.82	24	7.00	-458.93	14	20.00
31	Vedanta Ltd. (IPP-Unit-2)	279.586	388.314				400KV DUBURI - PANDIABIL	8.58	11.92	191.61	5	23.00	-136.32	30	23.00
32	Vedanta, Jharsuguda	144.399	200.554				400KV DUBURI - BARIPADA	0.96	1.33	152.77	8	8.00	-205.08	14	22.00
33	Vedanta, Lanjigarh	0.502	0.697				400KV VEDANTA-JHARSUGUDA Ckt-I	31.12	43.22	211.78	27	14.00	-160.30	1	23.00
34	VISA Steel, New-Duburi	1.205	1.674	6.59	15	22.00	400KV VEDANTA-JHARSUGUDA Ckt-II	31.16	43.28	210.93	27	14.00	-160.73	1	23.00
35	Yazdani Steel & Power Ltd., J.J Rd	0.023	0.032				400KV OPGC-JHARS PG - I	5.50	7.64	150.33	11	19.00	-184.07	2	7.00
36	Vedanta Ltd. (3*600)	1.854	2.575				400KV OPGC-JHARS PG - II	5.75	7.99	150.20	11	19.00	-183.11	2	7.00
Total support from CPPs		876.528	1217.400				Net ISGS	552.45	767.29	1458.95	11	19.00	-184.07	2.00	7.00

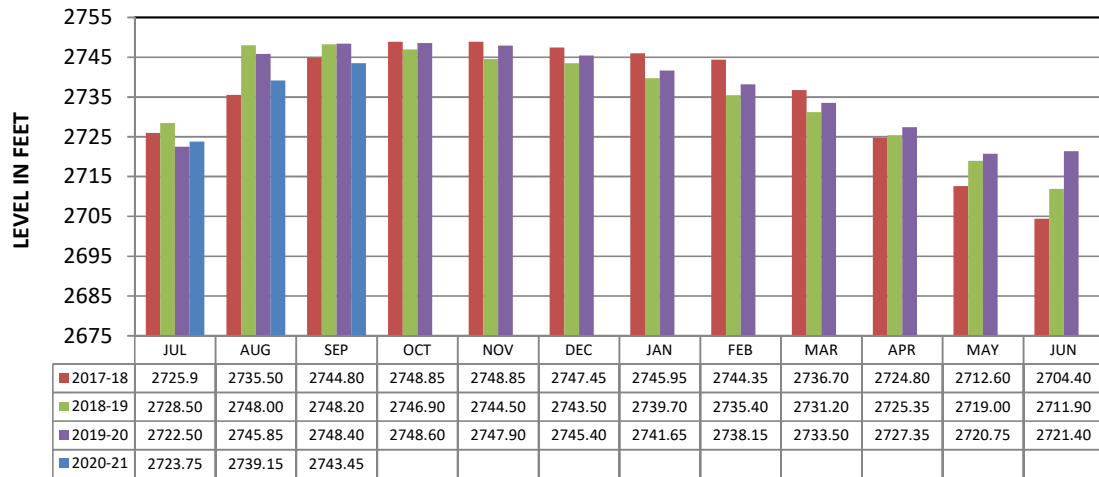
ABSTRACT OF SYSTEM DEMAND

Particulars	Energy MU	Average MW	Peak MW	DATE	TIME
Total gross generation(Including CPP+IPP)	2275.231	3160.043	3976.64	19	22.00
Power Station Auxiliary consumption	78.032	108.378			
Total net generation(Including CPP+IPP)	2197.199	3051.666	3961.60	19	22.00
Net ISGS	552.449	767.290	728.14	19	22.00
System Demand	2749.648	3818.956	4689.74	19	22.00
Trading					
Average of Peak Demand (MW)		4161.088			
Average of Minimum Demand (MW)		3545.297			

DAILY GENERATION SHARING DURING PEAK DEMAND DURING SEPTEMBER- 2020

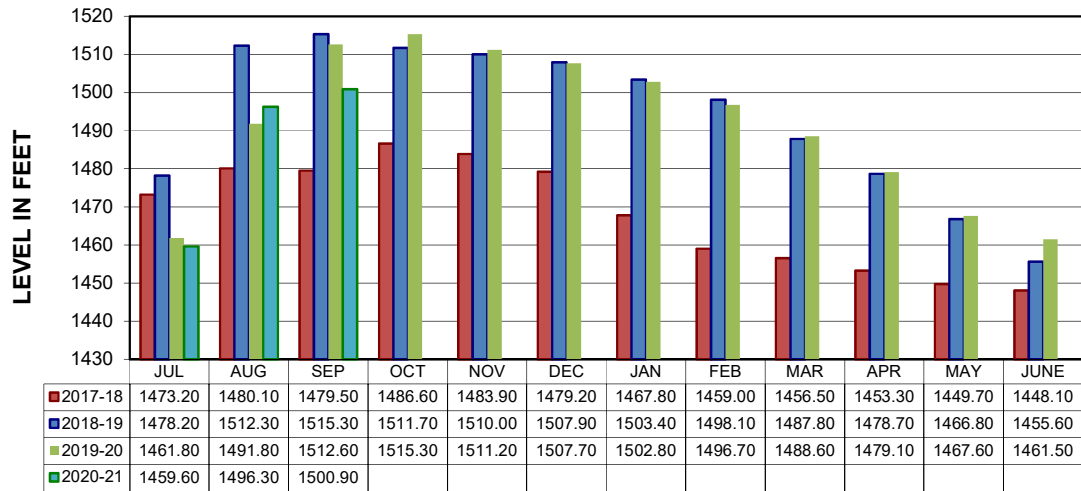


JOLAPUT RESERVOIR LEVEL



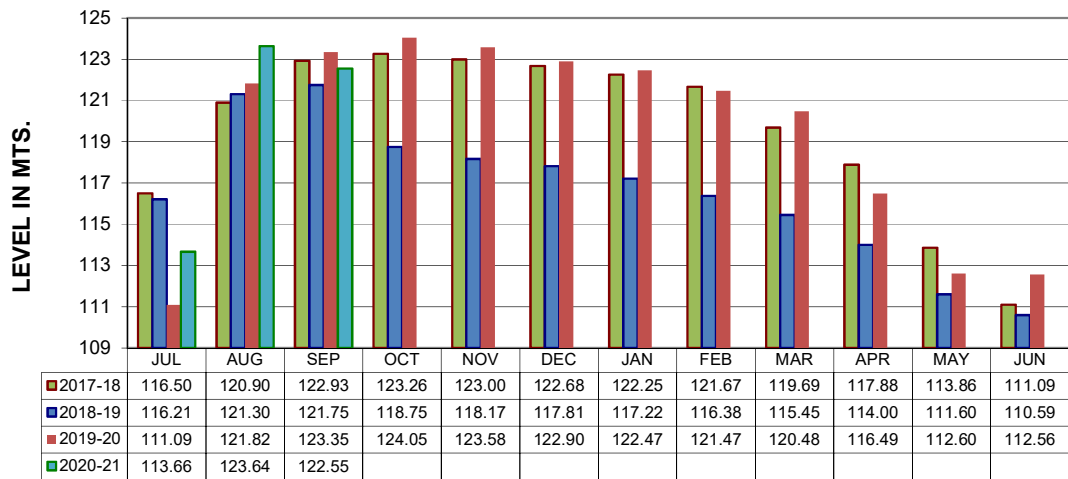
MONTH (End)

BALIMELA RESERVOIR LEVEL



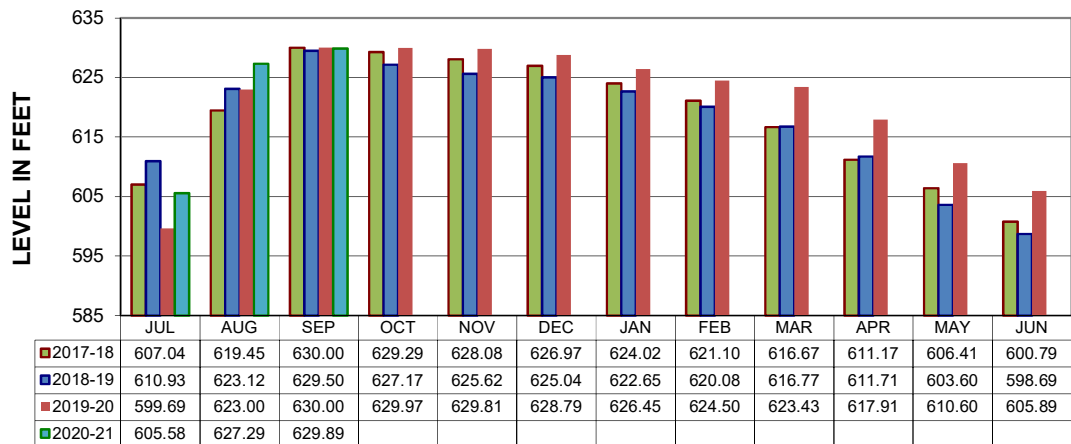
MONTH (End)

RENGALI RESERVOIR LEVEL



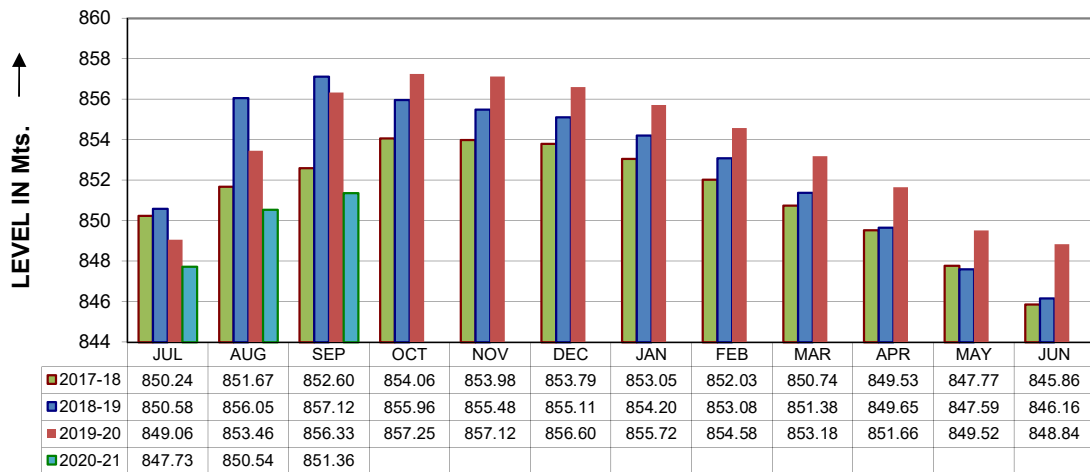
MONTH (End)

HIRAKUD RESERVOIR LEVEL



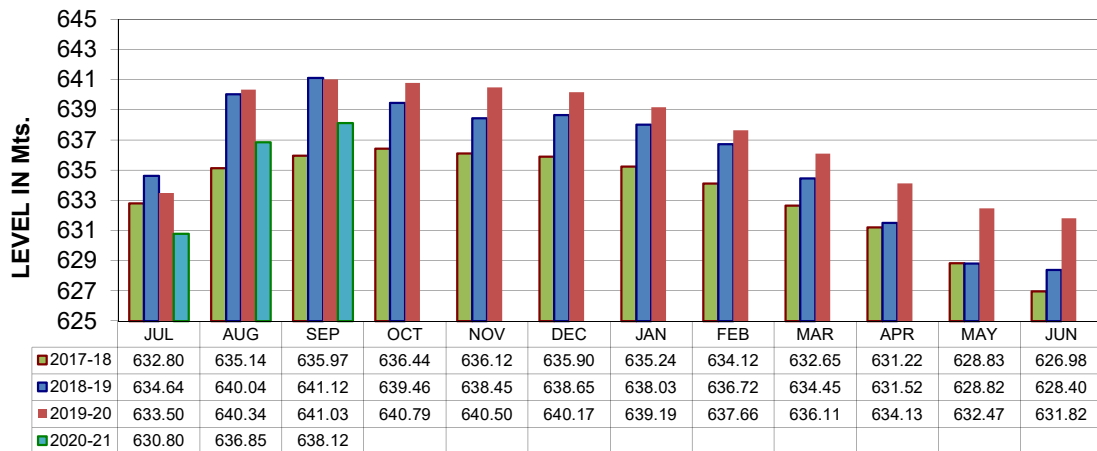
MONTH (End)

U.KOLAB RESERVOIR LEVEL



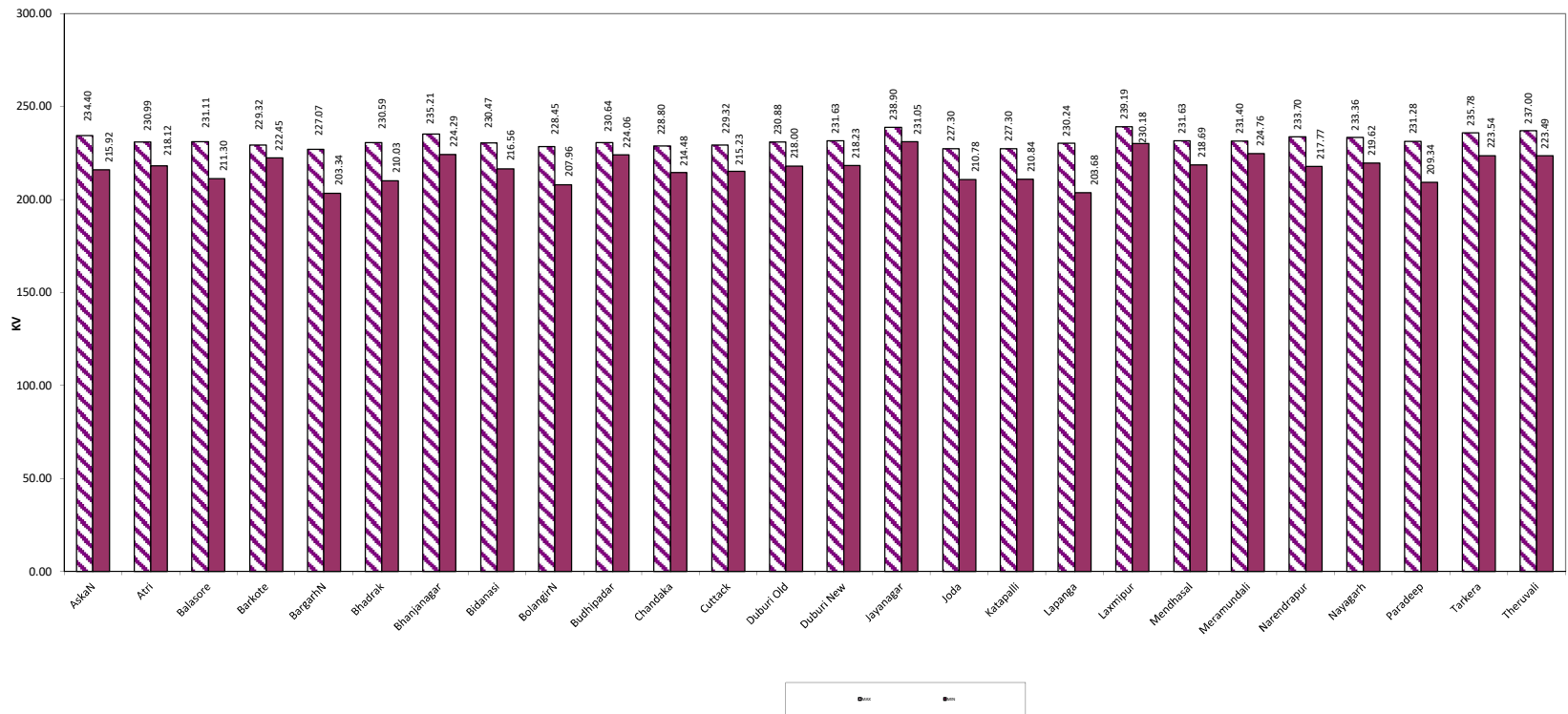
MONTH (End)

INDRAVATI RESERVOIR LEVEL



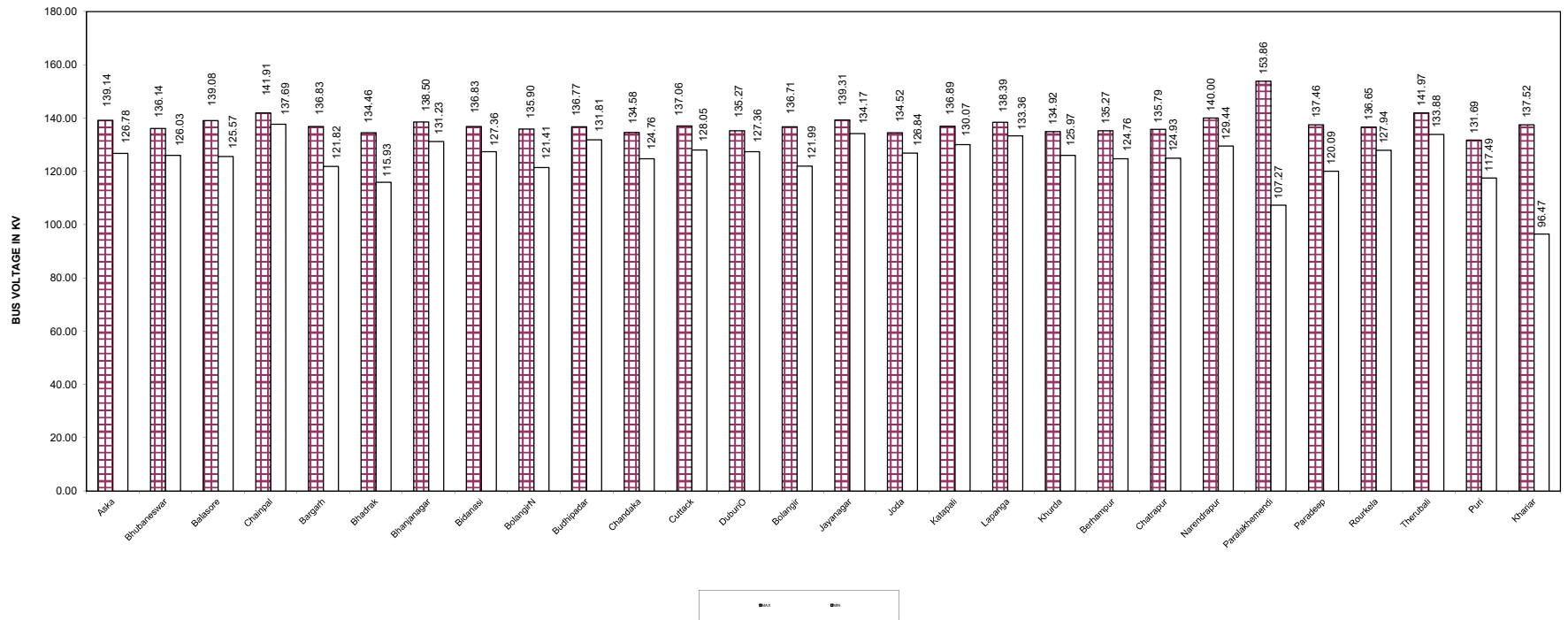
MONTH (End)

VOLTAGE PROFILE OF 220KV S/S FOR SEPTEMBER 2020

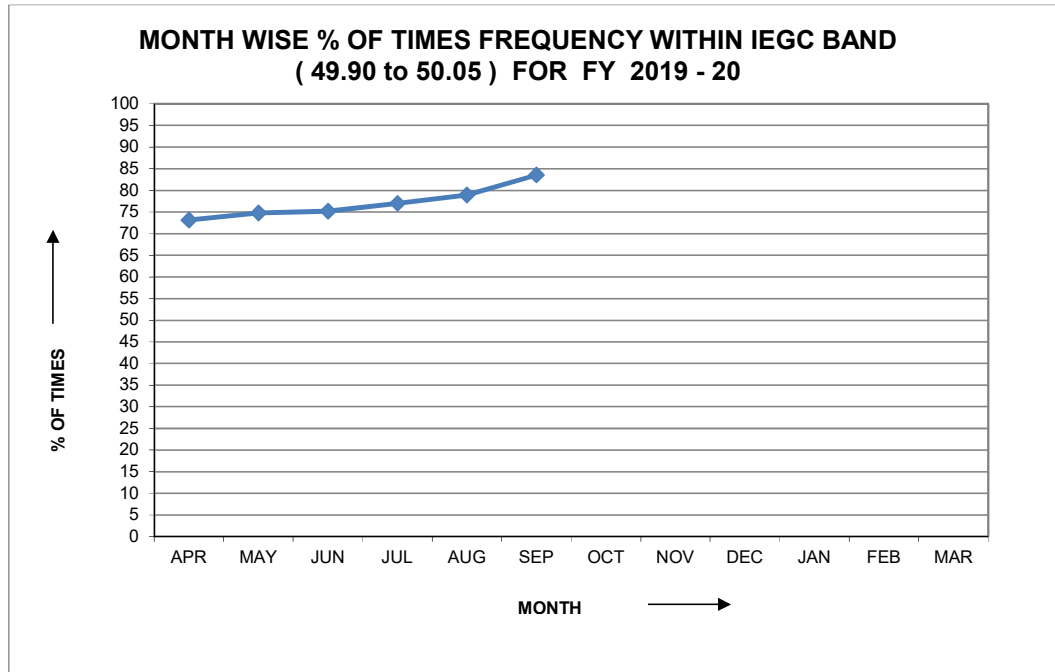


STATION	ATRI		BALASORE		BARKOTE		BARGARH(N)		BHADRAK		BHANJANAGAR		BIDANASI		BOLANGIR		BUDHIPADAR		CHANDAKA		CUTTACK		DUBURI		DUBURI (N)		JAYANAGAR		JODA		KATAPALI		LAPANGA		LAXMIPUR		MENDHASAL		MERAMUNDALI		NARENDRAPUR		NAYAGARH		PARADEEP		TARKERA		THERUVALI	
	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.				
MAXM.	30	05:15	30	06:00	21	06:30	1	22:00	2	05:00	1	13:45	2	06:00	30	06:00	2	05:00	2	06:00	2	06:00	30	06:00	2	05:45	2	05:45	30	05:00	21	05:15	21	05:15	2	03:30	2	06:00	30	06:00	2	06:00	30	06:00	30	06:00	1	14:00	1	22:00
MINM.	11	18:45	7	22:45	7	23:00	28	11:00	11	10:45	7	23:00	3	19:00	7	22:45	11	10:45	8	18:45	7	22:45	7	23:00	7	23:00	24	18:30	2	14:30	2	14:30	29	17:30	3	19:00	7	22:45	9	23:00	17	18:45	11	10:30	7	23:00	28	11:00		

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



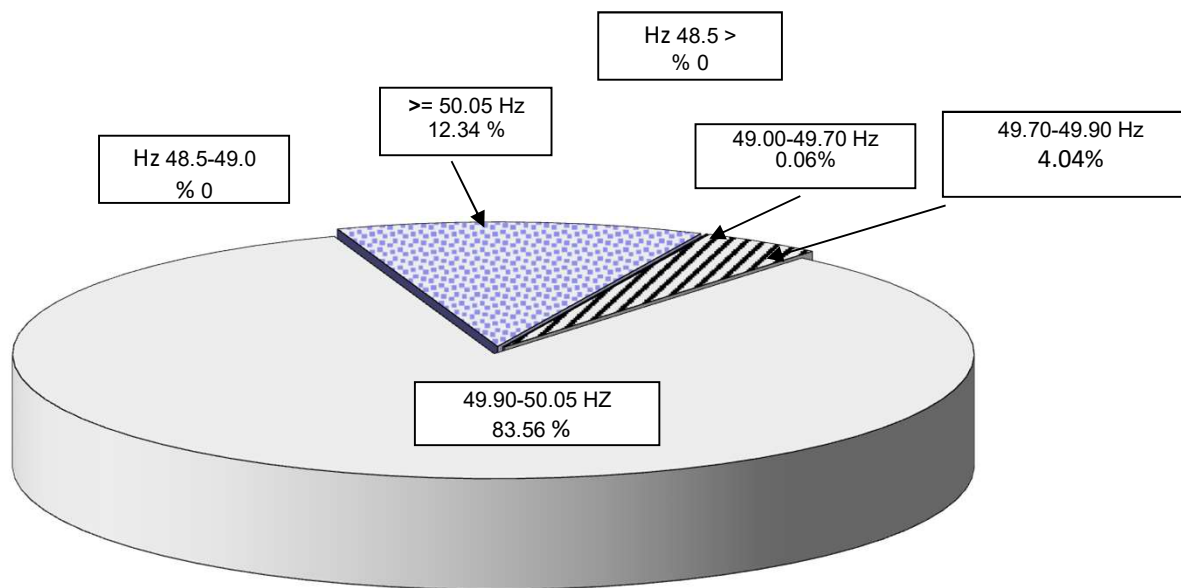
STN	CHATRAPUR		BALASORE		CHAMPAL		BARGARH (N)		BHADRAK		BHANUNAGAR		BIDANASI		BOLANGIR		BUDHPADAR		CHANDAKA		CUTTACK		DUBURI		KHURDA		JAYANAGAR		JODA		KATAPALI		LAPANGA		MANCHESWAR		PURI		MERAMUNDALI		NARENDRAPUR		BERHAMPUR		PARADEEP		TARKERA		THERUVALI		Bhubaneswar	
	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.		
MAX	2	8.00	30	06.00	1	11.30	2	06.00	2	02.00	1	13.45	2	06.00	2	06.15	2	05.00	2	03.15	30	15.00	30	06.00	2	05.45	2	05.00	30	04.15	2	06.00	2	03.45	2	03.15	30	06.00	30	3.15	30	06.00	30	06.00	1	17.30	1	14.00	1	22.15	2	06.00
MIN	7	18.45	18	15.00	6	22.45	19	23.00	17	17.45	5	11.45	11	18.45	14	14.45	11	10.45	8	18.45	7	22.45	7	22.45	7	23.00	11	10.45	24	18.30	4	19.15	8	13.00	8	18.45	7	22.45	3	18.45	3	18.45	3	18.45	8	12.00	9	16.00	28	11.00	3	18.45



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

YEAR	FREQUENCY	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MARCH	ANNUAL
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							50.01
	% of time (49.9 to 50.05 Hz)	73.16	74.78	75.22	77.02	78.93	83.56							77.11
	% of time (above 50.05 Hz)	22.06	21.33	20.64	16.78	15.08	12.34							18.04

MONTHLY FREQUENCY PROFILE FOR SEPTEMBER 2020



FREQUENCY DISTRIBUTION FOR THE MONTH OF SEPTEMBER - 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	2	0	0	0	0	0	1	0	0	0	0	0	0	0
49.7-49.9	76	185	101	43	17	13	29	202	11	11	2	23	4	60	43
49.9-50.05	1184	1167	1195	1192	1171	1131	1238	1167	1268	1179	1233	1210	1199	1171	1239
>50.05	180	86	144	202	252	296	173	70	161	250	205	207	237	209	158
>=50.1Hz	16	9	5	14	47	27	6	7	10	32	7	28	38	8	8

Frequency/Day	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Total	
<48.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
48.5-49.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
49.00-49.70	0	0	0	9	0	0	0	0	12	0	0	0	3	0	0	0	0.06
49.7-49.90	31	10	27	191	51	64	25	53	139	45	69	44	102	60	12	29	4.04
49.9-50.05	1253	1167	1190	1136	1223	1178	1210	1233	1214	1193	1203	1235	1270	1224	1187	601	83.56
>50.05	156	263	214	80	166	198	205	153	75	202	164	160	64	156	241	89	12.34
>=50.10Hz	3	20	17	2	5	11	18	8	3	14	17	13	9	15	14	7	

ENERGY DRAWAL OF TPCODL CONTROL AREA GRID SUBSTATIONS FOR THE MONTH OF SEPTEMBER'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 Angul	132 kV 2x40+1x20=100	26.640 30.567	24.994 26.020	32.960 36.633	25th Sep 2020 5th Sep 2020	18:45 11:30	
2	Angul PG	PGCIL Stn. Tertiary Arati Steel		0.173 0.000	0.192 0.071	0.173 8.163	1st Sep 2020 26th Sep 2020	00:00 20:45	
3	Angul	Angul	2x40+1x20=100	13.196	11.236	29.396	8th Sep 2020	14:15	
4	Badagada	Badagada	2x63=126	30.744	23.543	35.694	24th Sep 2020	23:00	
5	Balugaon	SOLARI Traction Balugaon	132kV 1x40+1x20+1x12.5=72	2.080 29.974	2.190 27.167	9.440 35.249	13th Sep 2020 28th Sep 2020	14:30 18:45	
6	Banki	Banki	2x20=40	11.952	9.442	12.964	17th Sep 2020	22:15	
7	Bhubaneswar	Bhubaneswar	3x63=189	61.520	66.610	103.000	17th Sep 2020	15:00	
8	Bidanasi	Bidanasi	2x63+1x40=166	58.835	55.863	80.959	7th Sep 2020	23:30	
9	Boinda	Boinda Traction Boinda	132 kV 1x20+2x12.5=45	0.040 16.167	1.526 13.708	10.760 20.163	28th Sep 2020 17th Sep 2020	10:30 19:00	
10	BPPL S/W	BPPL Fdr-I&II	132 kV	0.000	0.001	0.040	14th Sep 2020	00:45	
11	Chainpal	FCI Feeder Talcher Rd. Trac. Chainpal	132 kV 132 kV 2x40+1x20=100	0.520 5.800 50.940	0.486 6.524 40.345	0.640 14.320 57.128	4th Sep 2020 22th Sep 2020 15th Sep 2020	18:30 21:15 19:30	
12	Chandaka	Chandaka	3x63=189	73.576	68.365	100.411	19th Sep 2020	19:45	
13	Chandpur	Chandpur	2x12.5=25	13.100	10.794	14.381	17th Sep 2020	22:15	
14	Choudwar	Choudwar Traction Choudwar	132 kV 3x40=120	4.760 54.036	4.844 49.608	13.960 73.338	1st Sep 2020 10th Sep 2020	16:00 12:15	
15	Cuttack	Cuttack	3x40=120	45.356	42.092	60.906	12th Sep 2020	15:15	
16	Dhenkanal	Joranda Trac. Narveram CGP Fdr Dhenkanal	132 kV 33 kV 3x40=120	7.350 0.000 41.316	5.868 0.029 35.827	14.900 2.738 46.595	25th Sep 2020 29th Sep 2020 27th Sep 2020	07:45 03:00 18:45	
17	Grid Steel Alloy S/W	GSAL Feeder	132kV	0.000	0.000	0.000	1st Sep 2020	00:00	
18	Hind Metalics	MGM Feeder NBVL Fdr-1&2 SGEL Feeder Meramundali Trac.	132kV 132kV 132kV 132 kV	0.000 0.000 0.056 6.500	0.000 0.008 0.073 4.890	0.020 0.275 1.775 17.163	12th Sep 2020 19th Sep 2020 9th Sep 2020 6th Sep 2020	05:45 11:00 05:30 13:30	
19	Infocity-II GIS	Infocity-II GIS (220/33)	2x40=80	5.120	7.818	18.000	17th Sep 2020	22:45	
20	Jagatsinghpur	Gorakhnatn Trac. Jagatsinghpur	132 kV 1x40+2x20=80	6.288 37.775	5.900 31.812	14.463 42.160	3rd Sep 2020 18th Sep 2020	07:45 21:45	
21	Kalarangi	Kalarangi	1x20+2x12.5=45	11.873	10.406	15.359	5th Sep 2020	18:45	
22	Kamakhyanagar	Kamakhyanagar	1x20+2x12.5=45	18.860	16.095	20.852	17th Sep 2020	19:15	
23	Kendrapada	Kendrapada	2x40+1x12.5=92.5	31.480	27.065	35.960	19th Sep 2020	21:45	
24	Khairiakata	Khairiakata	2x40=80	7.948	5.714	8.800	4th Sep 2020	21:30	
25	Khuntuni GIS	Khuntuni GIS	2x40=80	2.880	3.149	6.480	1st Sep 2020	12:15	
26	Khurda	Kaipadar Trac. Khurda	132 kV 4x40=160	5.680 64.493	5.619 54.250	14.000 68.675	13th Sep 2020 18th Sep 2020	08:15 21:30	
27	Konark	Konark	2x20=40	5.948	4.949	6.928	19th Sep 2020	21:45	
28	Mania	Mania	1x20+1x12.5=32.5	0.032	0.032	0.040	1st Sep 2020	03:30	
29	Marshaghai	Marshaghai Kendrapada Traction	2x20=40 132 kV	17.756 1.200	14.461 0.864	20.012 8.360	18th Sep 2020 2nd Sep 2020	21:45 14:45	
30	Mendhasal	Mendhasal(220/33)	2x20=40	2.072	1.709	2.196	3rd Sep 2020	10:45	
31	Meramundali	BSL-TATA Fdr-1&2 BRG Feeder JSPL Feeder-1&2 RUNGTA Feeder	220 kV 132kV 400 kV 132kV	55.640 10.720 153.875 0.200	15.633 3.745 18.016 0.128	65.880 15.960 217.750 0.280	18th Sep 2020 23th Sep 2020 23th Sep 2020 4th Sep 2020	00:00 02:15 07:30 18:45	
32	Narsinghpur	Narsinghpur(220/33)	1x40=40	0.120	4.117	7.360	9th Sep 2020	16:00	
33	Navagarh	Navagarh (220/33)	2x40+1x20=100	52.889	42.146	59.649	17th Sep 2020	22:00	
34	Nimapara	Nimapara	3x40=120	48.355	42.453	54.260	18th Sep 2020	20:30	
35	Nuapatana	Nuapatana	1x40+1x20+1x12.5=72	31.232	26.656	35.159	13th Sep 2020	09:00	
36	Olaver	Olaver	2x12.5=25	9.232	6.975	9.968	19th Sep 2020	22:15	
37	Pandiabil PG	PGCIL Stn. Tertiary		0.048	0.054	0.048	1st Sep 2020	00:00	
38	Paradeep	Essar Steel Fdr-1&2 IFFCO Fder-1&2 IOCL Feeder PPL Fder-1&2 PPT Fder-1&2 Paradeep	220kV 132kV 220kV 132kV 132kV 3x20=60	0.000 3.160 0.300 0.040 11.760 21.864	0.025 3.472 0.307 2.726 11.756 18.422	5.975 9.440 0.638 12.720 17.920 27.660	9th Sep 2020 30th Sep 2020 18th Sep 2020 7th Sep 2020 8th Sep 2020 14th Sep 2020	09:15 11:15 12:00 07:30 18:15 21:00	
39	Pattamundai	Pattamundai	2x20+1x12.5=52.5	28.361	22.933	30.815	17th Sep 2020	21:45	
40	Phulnakhara	Phulnakhara	1x40+2x20=80	32.093	28.206	38.082	9th Sep 2020	10:00	
41	Puri	Puri	3x40=120	31.220	28.449	44.020	28th Sep 2020	22:30	
42	Ranasinghpur	Ranasinghpur	3x63=189	69.846	66.343	94.491	7th Sep 2020	22:30	
43	Rengali PG	PGCIL Stn. Tertiary		0.040	0.045	0.040	1st Sep 2020	00:00	
44	Rengali S/W	Rengali S/W (220/33)	2x20=40	13.812	11.521	18.736	13th Sep 2020	19:30	
45	Salipur	OCL Feeder Salipur	132kV 3x20=60	0.341 30.012	5.100 25.551	9.569 32.937	9th Sep 2020 18th Sep 2020	18:45 22:00	
46	Samangara	Samangara	2x20=40	8.440	7.218	11.648	18th Sep 2020	23:00	
47	Shamuka	Shamuka	2x31.5=63	16.360	14.938	24.040	12th Sep 2020	22:45	
48	Tirtol	Tirtol	2x40=80	7.640	8.613	12.440	2nd Sep 2020	22:30	
49	TS Alloys S/W	RAWMET Feeder	132kV	16.013	21.744	24.394	17th Sep 2020	05:00	
50	Unit-8 GIS	Unit-8 GIS	1x40=40	5.280	15.165	30.380	24th Sep 2020	11:00	
		Balugaon	Khallikote Feeder	33kV	-13.640	-12.900	-18.456	25th Sep 2020	07:15
		Chandikhol	Badachana Feeder	33kV	14.553	13.304	16.541	24th Sep 2020	18:45
		Rairakhol	Bamur Feeder	33kV	2.688	2.505	4.060	24th Sep 2020	18:15
		Rengali	BUDHAPAL Feeder	33kV	-1.240	-1.023	-1.764	11th Sep 2020	21:30
		Barkote	Pallhara Feeder	33kV	1.500	1.829	7.781	25th Sep 2020	19:30
		Chandaka	S.N. Mohanty(Solar)	11kV	0.000	0.112	0.656	13th Sep 2020	12:00
		Chandpur	MGM SOLAR	11kV	0.000	0.136	0.722	22th Sep 2020	11:45
		Chandpur	VIVACITY Solar	11kV	0.000	0.115	0.581	14th Sep 2020	10:30
		TPCODL TOTAL ENERGY (MU)		1,467.3563	848.6573	2,038.8060			

ENERGY DRAWAL OF WESCO CONTROL AREA GRID SUBSTATIONS FOR THE MONTH OF SEPTEMBER'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	0.208	1.947	3rd Sep 2020	23:00
		Arvan-Viraj	132 kV	0.172	0.208	0.719	12th Sep 2020	12:00
2	Bamra	Bamra Traction	132 kV	7.200	6.409	19.080	11th Sep 2020	19:15
3	Barapalli	Dunguripali Tr.	132kV	1.000	2.878	11.280	5th Sep 2020	18:15
		Barapalli	1x40+1x20=60	34.808	29.440	47.128	18th Sep 2020	08:30
4	Bargarh	ACC Feeder-1&2	132kV	0.640	0.704	4.160	7th Sep 2020	12:30
	Bargarh	Bargarh	3x40=120	60.580	53.718	84.758	17th Sep 2020	17:45
5	Bargarh (New)	Bargarh (New)	1x12.5=12.5	0.080	0.083	0.132	2nd Sep 2020	06:30
6	Barkote	Barkote (220/33)	2x40=80	14.081	11.259	19.533	25th Sep 2020	18:30
7	Bhalulata	Bhalulata Traction	132 kV	2.760	3.524	16.440	23th Sep 2020	03:30
8	Bhawanipatna	Bhawanipatna	2x12.5=25	14.209	11.287	16.228	1st Sep 2020	20:00
9	Bolangir PG	415V side Tertiary		0.052	0.058	0.052	1st Sep 2020	00:00
10	Bolangir	Bolangir	3x40=120	39.740	39.244	57.686	17th Sep 2020	16:30
11	Bolangir (New)	Bolangir (New)	1x40+1x12.5=52.5	0.280	0.144	0.520	8th Sep 2020	18:15
12	Bonai	Bonai(220/33)	2x20=40	10.912	9.678	13.728	17th Sep 2020	19:00
13	Brajarainagar	Brajarainagar	1x40+3x20=100	36.141	30.527	57.428	12th Sep 2020	19:15
14	Budhipadar	AAL Feeder-1&2	220 kV	89.840	1.237	97.760	26th Sep 2020	20:30
		Basundhara Fder	220 kV	3.156	2.436	3.906	29th Sep 2020	20:00
		BPSL Fedr-1&2	220 kV	75.094	23.039	98.875	13th Sep 2020	19:00
		MCL Fder-1&2	132 kV	21.081	17.002	23.097	12th Sep 2020	19:30
		MSP Feeder	132 kV	0.000	0.000	0.000	1st Sep 2020	00:00
		SPS(CONCAST) Fdr	220 kV	0.000	0.000	0.000	1st Sep 2020	00:00
		Budhipadar	1x20+1x12.5=32.5	9.184	8.022	16.034	16th Sep 2020	20:45
		Vedanta Ltd	220 kV	0.000	0.256	10.080	1st Sep 2020	03:45
15	Burla P.H.	Island & Incomer	11 kV	0.038	0.048	0.088	1st Sep 2020	00:00
16	Chandiposh	Chandiposh Trac	220 kV	13.040	5.780	18.800	25th Sep 2020	01:30
17	Chend	Adhunik Metallic Fdr.	132 kV	0.750	0.519	1.125	29th Sep 2020	10:30
		Nuagaon Trac.	132 kV	0.040	1.552	12.680	6th Sep 2020	12:00
		Sri Ganesh Metallics	132 kV	1.538	1.599	3.775	2nd Sep 2020	07:45
		Chend	3x40=120	57.619	51.618	66.331	7th Sep 2020	22:45
18	Chipilima P.H.	Chipilima P.H.	1x20+1x12.5=32.5	19.483	18.573	25.312	17th Sep 2020	19:00
19	Ghens	Ghens	1x40=40	27.400	25.102	42.520	16th Sep 2020	09:45
20	Javapatna	Megalift Feeder-I & II	132 kV	2.560	2.067	6.760	7th Sep 2020	09:15
21	Jharsuguda	Jharsugda Trac.	132 kV	14.040	12.410	22.720	18th Sep 2020	22:30
		Jharsuguda	2x40=80	20.120	18.327	24.640	14th Sep 2020	18:15
		Ultratech Feeder	132kV	10.564	8.844	12.356	4th Sep 2020	20:30
22	Junagarah	Junagarah	3x20=60	30.536	23.151	35.188	7th Sep 2020	21:00
23	Kalunga	Kalunga	2x40=80	46.080	37.423	51.440	5th Sep 2020	15:45
		Mahavir Ferro CGP	33 kV	0.000	0.000	0.000	1st Sep 2020	00:00
24	Kantabanji	Kantabanji Trac.	132 kV	0.640	1.395	7.200	14th Sep 2020	05:45
		Kantabanji	2x40=80	9.240	8.395	13.760	19th Sep 2020	10:00
	Katapali	HINDALCO Fdr-1&2	220 kV	0.320	1.849	36.004	19th Sep 2020	23:45
		Katapali	1x40+2x20=80	36.044	30.013	42.509	8th Sep 2020	18:45
26	Kesinga	POWMEX Fdr	132 kV	0.231	0.733	3.428	12th Sep 2020	09:45
		Kesinga Traction	132 kV	0.280	2.469	12.880	12th Sep 2020	13:00
		Kesinga	1x40+2x20=80	36.634	31.989	47.206	9th Sep 2020	17:30
27	Khariar	Khariar	2x40=80	32.760	27.286	35.240	18th Sep 2020	15:00
28	Kuchinda	Kuchinda	2x20=40	16.644	12.784	21.619	17th Sep 2020	19:15
29	Lapanga	Rengali Traction	132KV	4.880	4.456	13.840	8th Sep 2020	13:45
		Lapanga	1x20=20	8.744	7.597	11.504	5th Sep 2020	18:45
30	Nuapada	Nuapada Trac.	132 kV	0.000	0.000	0.000	1st Sep 2020	00:00
		Nuapada	2x20=40	11.032	9.432	13.156	16th Sep 2020	22:30
31	OPGC S/W Stn.	BGR Energy Ltd. Fdr	33 kV	0.024	0.027	0.024	1st Sep 2020	00:00
32	Padampur	Padampur	1x40+2x20=80	22.008	20.383	30.352	17th Sep 2020	19:00
33	Patnagarh	Patnagarh	1x40+2x20=80	23.058	17.808	30.570	25th Sep 2020	17:00
34	Rairakhol	Rairakhol Trac.	132kV	0.040	1.700	8.520	1st Sep 2020	11:45
		Rairakhol	3x12.5=37.5	9.304	7.192	11.096	17th Sep 2020	19:00
35	Rajgangpur	OCL Feeder	132kV	7.920	1.448	10.080	26th Sep 2020	14:15
		OISL Feeder	132kV	0.000	0.000	0.000	1st Sep 2020	00:00
		Rajgangpur Trac-1&2	132 kV	3.560	4.197	10.400	2nd Sep 2020	21:00
		Rajgangpur	3x40=120	59.080	50.489	68.800	23th Sep 2020	18:45
36	Rourkela PG	PG Tertiary		0.000	0.000	0.000	1st Sep 2020	00:00
37	Rourkela	Rourkela Trac Tfr	1x12.5=12.5	0.000	0.000	0.000	1st Sep 2020	00:00
		Rourkela	1x40+3x35=145	49.160	43.295	53.600	8th Sep 2020	11:45
38	Saintala	ORDNANCE Feeder	132 kV	1.360	1.418	3.760	10th Sep 2020	10:00
39	Sambalpur	Sambalpur	1x40+2x31.5=103	62.351	53.532	74.549	18th Sep 2020	19:00
		Shvam DRI Feeder	132 kV	16.431	2.295	20.006	27th Sep 2020	05:00
40	SMC S/W	SMC Power	132kV	9.200	3.140	13.575	24th Sep 2020	04:30
41	Sonepur	Sonepur	2x40+1x20=100	44.082	36.441	56.349	19th Sep 2020	18:30
42	Sundargarah PG	PG TERTIARY	33 kV	0.131	0.146	0.131	1st Sep 2020	00:00
43	Sundargarah	Sundargarah	1x40+2x20=80	28.353	22.145	36.184	17th Sep 2020	19:00
44	Tarkera	RSP Feeder-1&2	220 kV	174.500	112.233	209.844	26th Sep 2020	07:30
		RSP Feeder-3&4	220 kV	1.600	1.661	3.600	7th Sep 2020	10:45
45	Tusura	Tusura	1x40+1x20=60	18.224	16.152	25.608	19th Sep 2020	16:30
		Deogaon Tr.	132kV	0.680	0.860	8.280	30th Sep 2020	15:00
46	VAL Lanigarh	Vedanta AL fder-1&2	132 kV	5.263	0.838	6.706	2nd Sep 2020	01:15
47	Vedanda S/W	Vedanta SEZ	400 kV	325.796	230.052	422.373	17th Sep 2020	19:00

	Barkote	Pallhara Feeder	33kV	-2.606	-1.836	-7.781	25th Sep 2020	19:30
	Joda	Joda-Tensa Feeder	33 kV	6.856	5.232	8.880	7th Sep 2020	20:15
	Rairakhol	Bamur Feeder	33 kV	-3.104	-2.520	-4.060	24th Sep 2020	18:15
	Rengali	BUDHAPAL Feeder	33kV	1.336	1.033	1.764	11th Sep 2020	21:30
	Sonepur	Manamunda Feeder	33 kV	-10.812	-8.859	-13.704	19th Sep 2020	18:45
	Tentulikhunti	Mukhiguda Fdr	33KV	1.880	1.678	2.760	18th Sep 2020	10:00
	ACME SOLAR	ACME SOLAR	132 kV	0.060	0.032	0.108	28th Sep 2020	17:30
	Bamra	Jov Iron Steel (Solar)	11 kV	0.000	0.069	0.376	2nd Sep 2020	12:45
	Barkote	Molisati Solar	11 kV	0.000	0.080	0.395	24th Sep 2020	10:45
	Kesinga	SADIPALI Solar	33kV	0.000	4.389	20.440	17th Sep 2020	12:15
	Kesinga	Vento Power Solar -1	132 kV	0.080	0.048	0.160	16th Sep 2020	18:00
	Kesinga	Vento Power Solar -2	132 kV	0.040	0.031	0.080	1st Sep 2020	00:00
	Bonej	Mahavir Solar	33 kV	0.000	0.105	0.677	22th Sep 2020	12:15
	Padampur	Dakshin UPL solar	132kV	0.080	0.043	0.120	1st Sep 2020	00:15
	Patnagarh	ALEX Solar Pvt. Ltd.	33 kV	0.000	0.504	2.976	24th Sep 2020	12:15
	Patnagarh	JYOTI Solar	33 kV	0.000	2.043	9.648	16th Sep 2020	12:45
	Bolangir (New)	REHPL(Solar)	11kV	0.000	0.145	0.690	9th Sep 2020	12:15
	Saintala	BEL-OFBL Solar	132kV	0.024	0.013	0.040	2nd Sep 2020	04:30
	Sonepur	GEDCOL Solar	33 kV	0.000	2.646	13.164	15th Sep 2020	11:30
	Sonepur	ABACUS Holdings	11 kV	0.000	0.169	0.976	22th Sep 2020	12:00
	Tusura	Vento Power Solar-I	132 kV	0.080	0.039	0.120	1st Sep 2020	00:30
	Tusura	Vento Power Solar-II	132 kV	0.080	0.027	0.080	1st Sep 2020	00:30
	Bargarh	Aditva Solar Fdr-I & II	33 kV	0.026	2.289	11.558	30th Sep 2020	11:00
		WESCO TOTAL ENERGY (MU)		1,678.3858	1,229.3386	1,673.9785		

ENERGY DRAWAL OF NESCO CONTROL AREA GRID SUBSTATIONS FOR THE MONTH OF SEPTEMBER'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	2.160	1.763	2.520	15th Sep 2020	18:30
2	Anandpur	Anandpur	1x20+2x12.5=45	18.595	15.484	22.281	17th Sep 2020	20:45
3	Arya Ispat S/w	ARYA Steel Fdr	132kV	8.464	6.501	8.668	13th Sep 2020	12:45
		BRPL Feeder	132kV	9.713	11.100	10.440	30th Sep 2020	07:00
4	Balasore	IMTCPL Fder	132kV	0.000	0.000	0.000	1st Sep 2020	00:00
		BIRLA Tyre Fder	132kV	1.396	2.965	8.348	12th Sep 2020	23:45
		ISPAT Feeder	132kV	0.000	10.457	51.360	14th Sep 2020	07:45
		Balasore Traction	132kV	1.680	4.478	12.840	19th Sep 2020	12:45
		Balasore	2x63+1x40=166	65.710	66.103	85.165	19th Sep 2020	19:30
5	Bangiriposi	Bangiriposi	2x12.5=25	12.564	9.313	13.668	17th Sep 2020	18:45
6	Barbil	Barbil	2x12.5=25	9.450	8.993	13.125	1st Sep 2020	07:30
7	Baripada PG	Baripada PG Stn.		0.754	0.084	0.754	1st Sep 2020	00:00
8	Baripada	Baripada	3x40=120	34.714	28.781	39.766	17th Sep 2020	22:00
9	Basta	Basta	2x20+1x12.5=52.5	22.815	17.450	25.746	19th Sep 2020	21:30
10	BC Mohanty S/w	Bamnipal(New) Fdr	132kV	14.800	12.207	19.840	7th Sep 2020	12:30
		BC Mohanty fdr	132 kV	4.404	4.282	4.688	21th Sep 2020	02:45
		TOMKA Traction	132kV	0.800	3.116	14.800	10th Sep 2020	23:45
11	Betanati	Betanati	1x20=20	11.160	8.899	14.228	11th Sep 2020	04:30
12	Bhadrak	Dhamra Port (Trac.)	132 kV	3.225	3.188	9.281	7th Sep 2020	14:45
		Dhamra Port Fder	132 kV	8.963	7.212	12.175	8th Sep 2020	13:00
		FACOR Feeder	132kV	0.000	0.002	4.880	29th Sep 2020	16:45
		FACOR Power	132kV	0.000	0.002	0.520	25th Sep 2020	14:00
		Bhadrak Traction	132 kV	6.040	5.093	12.720	21th Sep 2020	16:00
		Bhadrak	2x63+1x40=166	72.680	60.435	81.200	19th Sep 2020	22:30
		Bhograi	2x40=80	16.000	10.434	17.920	1st Sep 2020	04:00
13	Bhograi	Bhograi	2x10=20	2.128	2.437	4.428	28th Sep 2020	10:30
14	Bolani	Bolani(132/11)	2x10=20	2.128	2.437	4.428	28th Sep 2020	10:30
		BRPL Feeder	132kV	9.713	11.100	16.506	17th Sep 2020	09:30
15	BRPL S/w	Mesco Feeder	132kV	0.000	0.001	0.025	9th Sep 2020	14:30
		Chandabali GIS	1x40=40	9.952	8.263	11.368	19th Sep 2020	21:45
16	Chandabali GIS	Chandabali GIS	1x40=40	9.952	8.263	11.368	19th Sep 2020	21:45
17	Chandikhol	Chandikhol	3x20=60	36.112	29.573	39.667	18th Sep 2020	19:00
18	Dhenkikote	Dhenkikote	1x20=20	4.728	3.409	5.168	17th Sep 2020	21:00
19	Duburi	Jakhapura Traction	132 kV	4.800	7.829	16.800	2nd Sep 2020	13:45
		JFAL Feeder	132 kV	0.000	0.000	0.000	1st Sep 2020	00:00
		Mishrilal Feeder	132 kV	7.181	6.771	7.356	23th Sep 2020	12:30
		NINL Feeder	220 kV	1.200	1.305	1.600	8th Sep 2020	11:15
		Duburi(220/33)	2x40=80	19.275	17.217	24.475	12th Sep 2020	19:00
		Emami Feeder	220 kV	10.280	3.957	11.440	25th Sep 2020	15:00
20	Duburi-New	Jindal Stainless-1&2	220 kV	107.560	13.739	110.920	24th Sep 2020	15:00
		Maithan Feeder	220 kV	0.000	0.000	0.000	1st Sep 2020	00:00
		Rohit Ferrotech	220 kV	0.000	10.041	27.160	11th Sep 2020	07:30
		TATA Steel Fdr-1&2	220 kV	5.680	6.041	121.520	13th Sep 2020	12:45
		VISA Steel	220 kV	8.000	0.249	4.507	29th Sep 2020	13:15
		Jaganath Steel Fdr	132kV	0.022	0.030	2.166	30th Sep 2020	20:45
		RAMCO Feeder 132kV	132 kV	0.542	-13.304	0.000	1st Sep 2020	00:00
21	Jaipur Road	Jaipur Road	3x40=120	38.280	35.672	48.520	7th Sep 2020	19:15
		Yazdani CGP Feeder	33 kV	0.000	0.019	0.743	30th Sep 2020	03:00
22	Jaipur Town	Jaipur Town	2x40+1x20=100	48.941	38.009	51.071	18th Sep 2020	21:15
23	Jaleswar	Jaleswar Trac.	132 kV	3.120	4.148	12.960	30th Sep 2020	13:30
		Jaleswar	2x31.5+1x12.5=75.5	21.008	16.870	25.980	19th Sep 2020	20:00
24	Joda	Bansapani Trac.	132 kV	4.913	7.290	16.681	4th Sep 2020	07:45
		FAP Feeder	132kV	14.994	14.211	15.753	3rd Sep 2020	02:15
		JSPL Trf-	2x50+1x20=120	55.135	50.916	59.585	27th Sep 2020	21:00
		TATA STEEL	220kV	5.680	6.041	9.000	4th Sep 2020	19:15
		TATA Steel Long	220 kV	0.000	0.000	0.040	17th Sep 2020	17:30
		Joda	1x40+3x20=100	18.103	14.235	21.066	29th Sep 2020	18:45
		Sarada Ind (220/33)	1x15=15	0.963	4.598	8.750	8th Sep 2020	16:45
25	JSW Cement S/W	JSW Cement Fdr	132kV	3.960	1.934	5.720	15th Sep 2020	07:45
26	Karanjia	Karanjia	1x20+2x12.5=45	17.788	12.862	20.272	17th Sep 2020	19:30
27	Keonijhar GIS	Keonijhar GIS	2x20=40	19.708	8.619	20.856	18th Sep 2020	19:15
28	Keonijhar PG	PGCIL Stn. Tertiary		0.177	0.196	0.000	1st Sep 2020	00:00
29	Nalda	Nalda Traction	132 kV	3.280	3.161	14.280	9th Sep 2020	18:45
30	Polasponga	ESIL Feeder	132 kV	11.769	10.211	20.406	28th Sep 2020	09:00
		MSP Feeder	132 kV	12.916	10.382	14.024	21th Sep 2020	02:30
		OSISL CGP Feeder	33 kV	0.000	0.000	0.000	1st Sep 2020	00:00
		Patnaik Steel CGP	33 kV	0.000	0.000	0.000	1st Sep 2020	00:00
		Palasponga Trac.	132 kV	7.513	6.683	21.456	9th Sep 2020	16:15
		Polasponga	1x40+2x20=80	16.556	18.996	29.100	28th Sep 2020	19:45
		Rairangpur	2x20+1x12.5=52.5	21.781	16.115	23.659	19th Sep 2020	19:45
32	Somnathpur	IMAMI Feeder	132 kV	4.444	0.711	7.309	14th Sep 2020	18:15
		Stork Feeder	132 kV	0.056	0.146	9.231	1st Sep 2020	04:45
		Somnathpur	2x12.5=25	3.404	3.182	4.452	19th Sep 2020	15:45
33	Soro	Soro	1x40+2x20=80	53.139	42.373	57.843	18th Sep 2020	21:45
34	Udala	Udala	1x40=40	14.560	12.013	17.680	17th Sep 2020	19:45
	Chandikhol	Badachana Fder	33kV	-15.076	-13.304	16.541	24st Sep 2020	18:45
	Joda	Joda-Tensa Fdr	33 kV	-7.248	-5.232	-8.880	7th Sep 2020	20:15
		NESCO TOTAL ENERGY (MU)		933.1195	524.1985	1436.1378		

ENERGY DRAWAL OF SOUTHCO CONTROL AREA GRID SUBSTATIONS FOR THE MONTH OF SEPTEMBER'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	13.279	10.223	13.693	20th Sep 2020	20:00
2	Aska	Aska	4x40=160	54.640	40.267	60.800	25th Sep 2020	07:00
		Aska New(220/33)	1x40=40	10.600	7.640	11.960	8th Sep 2020	19:30
3	Balimela	Balimela (220/33)	1x40+1x20=60	12.200	8.754	13.632	3rd Sep 2020	19:15
4	Berhampur	Berhampur	2x40+1x20=100	47.519	41.878	56.219	18th Sep 2020	22:45
5	Bhanjanagar	Bhanjanagar	2x40+1x16=96	32.263	23.795	33.689	24th Sep 2020	18:45
6	Boudh	Boudh	2x20=40	9.408	4.696	10.116	28th Sep 2020	18:30
7	Chatrapur	IRE Feeder-1&2	132kV	8.963	6.547	9.441	30th Sep 2020	09:45
		Rambha Traction	132 kV	0.920	2.911	10.040	13th Sep 2020	13:45
		Chatrapur	3x20=60	21.791	17.367	26.192	26th Sep 2020	08:15
8	Chikiti	Chikiti	1x40=40	10.480	8.884	13.320	29th Sep 2020	22:30
9	Dabugaon	Dabugaon	2x12.5=25	10.968	7.731	13.640	20th Sep 2020	19:45
10	Digapahandi	Digapahandi	2x20+1x12.5=52.5	25.178	19.926	33.556	18th Sep 2020	18:45
11	Ganjam	GRASIM Ind. Ltd.	132kV	18.538	17.316	18.725	17th Sep 2020	14:45
		Ganjam	2x12.5=25	7.000	5.454	14.072	29th Sep 2020	20:15
12	Jaypur PG	Jaypur PG Ter.	28KV	0.693	0.068	0.693	1st Sep 2020	00:00
13	Jayanagar	Jaypur Trac.	132 kV	10.560	7.149	26.800	26th Sep 2020	04:30
		Jayanagar	2x20+1x12.5=52.5	28.178	19.580	29.102	8th Sep 2020	19:15
14	Laxmipur	Laxmipur	1x20=20	7.644	5.265	9.628	6th Sep 2020	07:30
		Utkal Alumina Fdr-I&II	220kV	0.080	0.111	4.200	5th Sep 2020	22:45
15	Malkangiri	Malkangiri (220/33)	2x40=80	13.960	9.847	15.920	4th Sep 2020	19:15
16	Meenakshi s/w	Megalift Feeder	33kV	0.000	0.048	0.428	10th Sep 2020	09:30
17	Mohana	Mohana	2x12.5=25	6.980	4.393	7.248	24th Sep 2020	19:15
18	Muniguda	Bissam-Cuttack Tr	132 kV	3.880	2.756	13.120	17th Sep 2020	12:00
19	Narendrapur	TATA Feeder-I&II	220 KV	#NA	0.000			
		Narendrapur Trac	132 kV	5.240	3.354	10.480	9th Sep 2020	02:15
		Narendrapur	3x40+1x20=140	30.000	26.499	38.100	18th Sep 2020	22:45
20	Paralakhemendi	Paralakhemendi	3x12.5=37.5	15.400	12.614	21.228	18th Sep 2020	23:15
21	Phulbani	Phulbani	2x40+1x12.5=92.5	20.748	17.320	26.824	28th Sep 2020	19:00
22	Podagada	Podagada	1x12.5=12.5	2.132	1.292	2.816	18th Sep 2020	06:45
23	Potangi	Potangi	1x40=40	4.000	3.024	5.092	6th Sep 2020	07:30
24	Purushottampur	Purushottampur	1x20+2x12.5=45	15.666	12.447	17.723	19th Sep 2020	16:45
25	Rayagada	Rayagada Trac.	132 kV	3.520	2.194	12.680	7th Sep 2020	04:45
		Rayagada	2x12.5=25	13.024	10.703	15.104	12th Sep 2020	22:30
26	Sunabeda	HAL Feeder	132kV	10.596	5.914	11.336	10th Sep 2020	18:30
		Sunabeda	1x20+2x12.5=45	21.484	15.197	24.784	2nd Sep 2020	07:30
27	Tentulikhunti	Tentulikhunti	3x20=60	11.997	10.150	16.308	12th Sep 2020	19:00
28	Therubali	JK Feeder	132kV	0.000	0.016	6.484	22th Sep 2020	04:30
		Therubali	2x12.5=25	12.812	9.344	13.424	17th Sep 2020	19:00
29	Umerkote	Umerkote	2x20=40	17.988	12.600	18.888	16th Sep 2020	18:45
	Balugaon	Khallikote Feeder	33kV	16.484	12.644	18.456	25th Sep 2020	07:15
	Sonepur	Manamunda Feeder	33kV	13.644	8.460	13.704	19th Sep 2020	18:45
	Tentulikhunti	Mukhiguda Fdr	33KV	-1.748	-1.638	-2.760	18th Sep 2020	10:00
	Tentulikhunti	Vento Energy Solar	132 kV	0.080	0.039	0.120	11th Sep 2020	01:45
30	Boudh	Aditya Birla Solar-I	33kV	0.000	5.570	24.921	12th Sep 2020	11:00
		SOUTHCO TOTAL ENERGY (MU)		568.7857	317.0533	741.9445		

AUTO TRANSFORMER LOADING FOR THE MONTH OF SEPTEMBER'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	86.56	8th Sep 2020	11:45	28.00	30th Sep 2020	15:45	
		86.56	8th Sep 2020	11:45	27.92	30th Sep 2020	15:45	
ASKA NEW	2x160	80.80	5th Sep 2020	18:45	1.40	7th Sep 2020	17:00	
		78.32	6th Sep 2020	08:45	1.36	7th Sep 2020	17:00	
BALASORE 220/132 KV { Balasore, Birla Tyre(I), Ispat Alloy(I), Jaleswar, Jaleswar(T)}	3x160	90.32	7th Sep 2020	12:15	26.92	27th Sep 2020	17:00	
		90.56	7th Sep 2020	12:15	27.00	27th Sep 2020	17:00	
		83.60	13th Sep 2020	21:30	26.60	27th Sep 2020	16:00	
BARGARH 220/132 kV	1x100	28.32	5th Sep 2020	12:00	0.44	9th Sep 2020	12:15	
	1x160	15.88	16th Sep 2020	09:45	0.20	9th Sep 2020	12:15	
BHADRAK 220/132 KV {Bargarh, Ghensh }	1x100	38.32	11th Sep 2020	14:00	8.64	29th Sep 2020	16:15	
	1x160	68.28	11th Sep 2020	14:00	16.08	29th Sep 2020	16:15	
	1x160	68.48	11th Sep 2020	14:00	16.00	29th Sep 2020	16:00	
BHANJANAGAR 220/132 KV { Bhanjanagar, Aska, Phulbani, Ganjam, Chatrapur}	1x160	72.80	11th Sep 2020	18:45	5.48	24th Sep 2020	15:15	
	1x160	64.24	11th Sep 2020	18:45	4.56	24th Sep 2020	15:15	
BIDANASI 220/132 KV {Bidanasi, Khurda }	1x100	30.60	14th Sep 2020	15:45	0.04	2nd Sep 2020	06:00	
	1x100	20.28	14th Sep 2020	15:45	0.04	26th Sep 2020	14:45	
	1x160	43.60	14th Sep 2020	15:45	0.04	26th Sep 2020	14:00	
BOLANGIR (SADAIPALLI) 220/132 KV { Bolangir, Patnagarh, Sonepur, Saintala, Khariar, Barpalli }	2x160	98.80	29th Sep 2020	18:30	7.96	3rd Sep 2020	12:30	
		98.80	29th Sep 2020	18:30	7.96	3rd Sep 2020	12:30	
		103.88	29th Sep 2020	18:30	8.40	3rd Sep 2020	12:30	
BUDHIPADAR 220/132 KV { Jharsuguda, Jharsuguda Tr, Cemco(I), MCL, Sundergarh, }	2x160	96.04	15th Sep 2020	12:30	14.20	7th Sep 2020	02:30	
		96.04	15th Sep 2020	12:30	3.72	5th Sep 2020	12:00	
CHANDAKA 220/132 KV { Chandaka, Bhubaneswar, Nimapada, Ransinghpur, Puri,Kesura, Kaipadar Tr. }	1x100	56.20	18th Sep 2020	22:45	16.00	30th Sep 2020	15:00	
	1x160	98.16	18th Sep 2020	22:45	30.52	30th Sep 2020	15:00	
	1x100	61.48	18th Sep 2020	22:45	18.32	30th Sep 2020	15:00	
	1x160	94.80	18th Sep 2020	22:45	27.72	30th Sep 2020	15:00	
CUTTACK	1x160	72.84	25th Sep 2020	12:30	12.36	8th Sep 2020	16:00	
	1x100	76.00	24th Sep 2020	11:15	6.28	8th Sep 2020	15:45	
DUBURI 220/132 KV {Duburi, Bamnipal(I), BRPL, MESCO, Jajpur Road, Kalarangi, Jajpur Town }	1x160	45.84	29th Sep 2020	18:30	0.08	14th Sep 2020	09:00	
GODA	1x100	UNDER SHUT DOWN						
	1x100	30.64	11th Sep 2020	11:45	0.04	3rd Sep 2020	16:00	
	1x160							
	1x160							
JAYAPATNA 220/132 KV								
JAYANAGAR 220/132 KV {Damanjodi(NALCO), Traction S/Ss, }	1x160	41.00	16th Sep 2020	18:45	0.04	27th Sep 2020	13:00	
	1x160	41.12	16th Sep 2020	18:45	0.04	8th Sep 2020	12:00	
JODA 220/132 KV { Joda,Tensa, FAP(I), Bolani(I), Nalda Tr.,Polasponga, *Rairangpur, Bhalulata traction }	3x100	59.68	25th Sep 2020	10:30	18.48	18th Sep 2020	10:45	*** - Alternate P/S from Kuche.
	3x160	69.12	5th Sep 2020	08:45	23.52	18th Sep 2020	10:45	
	3x100	61.56	25th Sep 2020	10:30	19.32	18th Sep 2020	10:45	
KATAPALI 220/132 KV {Chipilima,Bargarh, ACC,Sonepur & Katapali area load. }	1x100	54.40	8th Sep 2020	13:00	0.04	18th Sep 2020	08:00	Supported by Burla & Chipilima power.
	1x100	25.08	21st Sep 2020	01:45	0.04	22nd Sep 2020	20:00	
	1x160	37.44	21st Sep 2020	01:45	0.04	3rd Sep 2020	16:30	
KESINGA	2x160							
LAPANGA {Kuchinda, Aryan Viraj, Shyam Metallics }	2x160	61.68	15th Sep 2020	02:45	19.44	21st Sep 2020	13:15	
		68.04	8th Sep 2020	13:15	3.36	6th Sep 2020	23:45	
MERAMUNDALI 220/132 kV {Meramundali Traction, Dhenkanal, Navchrome(I), Hind Metal, Aarti,BRG }	3x100	49.08	19th Sep 2020	11:00	6.76	8th Sep 2020	16:45	
		46.72	19th Sep 2020	11:00	6.60	8th Sep 2020	16:30	
		47.00	19th Sep 2020	11:00	5.80	8th Sep 2020	16:45	
Mendhasal { Part area load of Khurda S/S }	2x100	38.90	18th Sep 2020	22:30	0.04	21st Sep 2020	11:15	
		36.56	18th Sep 2020	22:30	0.02	21st Sep 2020	13:00	
NARENDRAPUR 220/132KV { Narendrapur, NarendrapurTr, Berhampur, Chhatrapur, Ganjam, Balugaon, Digapahandi, Mohana. }	2x160	109.00	29th Sep 2020	16:45	49.96	27th Sep 2020	16:45	
		121.44	29th Sep 2020	13:15	48.60	27th Sep 2020	16:45	
PARDEEP 220/132 KV { Paradeep, Kendrapada, Pattamundai, Chandikhol, Cuttack, Jagatsinghpur, Phulnakhara }	1x100	69.32	29th Sep 2020	13:15	27.56	27th Sep 2020	16:45	
	1x100	59.56	12th Sep 2020	10:45	18.24	10th Sep 2020	14:45	
	1x160	97.80	12th Sep 2020	10:45	29.48	25th Sep 2020	15:30	
	1x160	95.24	7th Sep 2020	14:45	28.00	25th Sep 2020	15:30	
TARKERA 220/132 KV { Rourkela, Rourkela Tr.,RSP(I), Chhend , Adhunik Metal, Rajgangpur, OCL(I), Rajgangpur Tr. }	4x100	59.64	23rd Sep 2020	18:45	6.00	20th Sep 2020	22:30	
		62.80	23rd Sep 2020	18:30	2.00	8th Sep 2020	01:15	
		58.68	23rd Sep 2020	18:30	5.92	20th Sep 2020	22:30	
		59.44	23rd Sep 2020	18:45	6.64	20th Sep 2020	22:30	
THERUVALLI 220/132 KV. {Theruvalli, IMFAL(I), JK(I), Junagarh, Kesinga,Powmex(I), Rayagada. }	2x100	48.08	30th Sep 2020	12:15	8.16	14th Sep 2020	11:45	Rayagada & Paralakhemundi can be fed from Machkund system.
		48.40	3rd Sep 2020	19:15	7.92	14th Sep 2020	11:45	
	1x160	77.96	30th Sep 2020	12:15	12.08	14th Sep 2020	11:45	
TTPS 220/132 KV { Chainpal, FCI (I), Angul, MCL Nandira(I), }	1x160	57.41	17th Sep 2020	19:45	0.02	8th Sep 2020	16:30	

SYSTEM DISTURBANCE IN THE MONTH OF SEPTEMBER-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	Anandpur	02.09.2020	16:54HRS	21:13 HRS	04Hrs 19Mins	132KV Anandpur-BPPPL SC line	Zone-1,AB Type, Fault Dist.-08.02Km, Fault Current Icn-2.960 KA Ith=3.722KA,Icn-314A Fault resistance-1.99ohm				NIL, Anandpur Grid was drawing load from Jajpur Road Grid during interruption period
2	Anandpur	04.09.2020	13:51HRS	17:24HRS	03Hrs 33Mins	132KV Anandpur-BPPPL SC line	Zone-1, B-phase to Ground, Dist.-19.01 Km, Fault Current Icn-2.449 KA,Fault Resistance-1.746 ohm				NIL, Anandpur Grid was drawing load from Jajpur Road Grid during interruption period
3	Anandpur	04.09.2020	19:14HRS	21:28HRS	02Hrs 14Mins	132KV Anandpur-BPPPL SC line	Zone-1, B-phase to Ground, Fault Dist.-15.05 Km, Fault Current Icn-2.568 KA,,Fault Resistance-1.631 ohm				NIL, Anandpur Grid was drawing load from Jajpur Road Grid during interruption period
4	Angul	08.09.2020	16:03 Hrs	17:18 Hrs	01:15 Hrs	132 KV Angul-Chainpal Fdr	Fault Loop-LIN Fault-Abs Dist.-6.42 KM, Fault Current- IL1=3182A, IL2=302, IL3=522A AT CPL end Dist.- 7.406 KM, IL1 =6.531 KA, IL2 = 294.1 A, IL3= 524.7 A.				
5	Angul	09.09.2020	16:54 Hrs	17:10 Hrs	00:16 Hrs	132 KV MCL-I	I _a =0.37 KA, I _b =0.16 KA, I _c =1.1 KA,				As informed by Sr, Mgr, MCL CB at both ends Tripped on O/C(B-PH) & E/F due to 33KV faulty Hingula Fdr (O/C R & B PH and E/F) did not trip at MCL end. Charged after getting clearance from S/E, S/S Nandira and stood OK
6	Angul	14.09.2020	14:51 Hrs	15:01 Hrs	00:10 Hrs	132 KV MCL-I	E/F				As informed by Sr, Mgr, MCL CB at both ends Tripped on E/F due to 33KV faulty Fdr did not trip at MCL end. Charged after getting clearance from S/E, S/S Nandira and stood OK
7	Angul	15.09.2020	22:16 Hrs	22:30 Hrs	00:14 Hrs	132 KV MCL-I	O/C R-ph & E/F				As informed by Sr, Mgr, MCL CB at their end did not trip. Only 33KV lingaraj fdr tripped on O/C (R-PH) & E/F. Charged after getting clearance from S/E, S/S Nandira and stood OK
8	Angul	16.09.2020	13:46 Hrs	13:55 Hrs	00:09 Hrs	40 MVA TRF-II	O/C (Y & B- Ph) , Fault current- 0.05 KA				Tripped due to fault trip of 33 KV ANGUL-II at same time (E/F)
9	Angul	21.09.2020	08:01 Hrs	08:31 Hrs	00:30 Hrs	40 MVA TRF-II	O/C (R,Y & B- Ph) , Fault current- 0.05 KA,0.06 KA, 0.06 KA respectively				Tripped due to fault trip of 33 KV GSPL at same time (O/C R & Y PH & E/F- Ir=4.11KA & Iy=4.11KA). Delay in charging due to heavy rainfall.Charged after physical inspection in S/Y and stood OK.
10	Angul	24.09.2020	05:35 Hrs	05:55 Hrs	00:20 Hrs	132 KV MCL-I	O/C(R & Y-Ph), Fault current IL1=1.36 KA, IL2=1.30 KA, IL3=0.14 KA				As informed by Sr, Mgr, MCL, at MCL end CB did not trip(station Transformer's R-phase pin insulator busted at their end)
11	Angul	25.09.2020	12:16 Hrs	12:33 Hrs	00:17 Hrs	132 KV Angul-TTPS Fdr	O/C R-Ph & E/F, Fault current IL1=0.18 KA, IL2=0.11 KA, IL3 =0.15 KA				At TTPS end CB did not trip. At same time 132KV Angul-MCL-I tripped on O/C-R Ph and E/F.
12	Angul	25.09.2020	12:16 Hrs	12:34 Hrs	00:18 Hrs	132 KV MCL-I	O/C R-ph & E/F Fault current IL1=1.2 KA, IL2=0.14 KA, IL3= 0.2 KA				As informed by Sr, Mgr, MCL, at MCL end CB tripped on O/C-R-Ph (station Transformer's R-phase jumper snapped at their end)
13	Angul	26.09.2020	14:30 Hrs	14:37 Hrs	00:07 Hrs	40 MVA TRF-II	E/F				At same time 33KV Angul-II and 33KV IC-II tripped on E/F
14	Aska new.	29.09.2020	12:45	13:12	00:27	132 KV ASKA NEW - CHHATRAPUR CKT	TRIPPED ON R PH TO E/F.DISTANCE=45.7KM,IR=1.747KA.				
15	Aska new.	29.09.2020	19:24	19:54	00:30	132 KV ASKA NEW - CHHATRAPUR CKT	TRIPPED ON R PH TO E/F.DISTANCE=45.76KM,IR=1.694KA.				
16	Atri	03.09.2020	7.36	8.12	36min	220KV Atri- Pandiabil ckt-1	Carrier received, B ph, 3.116 kA, 23.66 km				220KV Atri- Pandiabil ckt-2 was in service
17	Atri	04.09.2020	1.05	1.14	9 min	132KV Atri- Khurda ckt-1	O/C, Rph-1.0 kA				132KV Atri- Khurda ckt-2 was in service
18	Atri	08.09.2020	14.43	14.43	0min	220KV Atri- Mendhasal ckt-1	DP, Rph-N, 4.686 kA, Zone-1, 10.84 km				A/R successful
19	Atri	08.09.2020	15.00	15.36	36min	220KV Atri- Pandiabil ckt-1	Carrier received, B ph, 9.912 kA, 0.2 km				220KV Atri- Pandiabil ckt-2 was in service
20	Atri	11.09.2020	11.56	11.56	0min	220KV Atri- Narendrapur ckt-2	DP, Rph-N, 1.397 kA, Zone-1, 77.4 km				A/R successful
21	Atri	16.09.2020	11.01	11.01	0min	220KV Atri- Narendrapur ckt-2	DP, Rph-N, 1.562 kA, Zone-1, 75.6 km				A/R successful
25	Balasore	06.09.20	20.45	15.56 (08.09.20)	43:11:00	220KV Balasore-PGCIL Ckt-II	At Balasore end: Y-Ph trip, B-Ph trip, Z-1 fault distance- 26.80Km, fault current-Iy=633.7A, Ith=3.699KA In B/U (Siemens Siprotec 7SJ66) : Y-Ph pick up, B-Ph pick up At Kuche end: For 1st fault: Main-1 : Y-N, Z-1, 57.92Km, Fault current-3.048KA 2nd fault: B-N, 4.558Km, Fault current-11.87KA				At loc no-21 (Tension tower), B-Ph conductor snapped which was replaced

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
28	Balasore	27.09.20	7.52	16.35	07:43	220KV Balasore-PGCIL Ckt-I	At Balasore end: Main-I: Y-Ph, B-Ph Trip, Z-I, distance-56.69Km, Ib-2.077KA, Ic-2.278KA Main-II: Z-I, fault distance-55.667Km, fault loop-1.2-4.3, fault current-I2=2097.99A, I3=2292.33A At Kuchel end: Main-I: Y-B-G, Z-I, 20.81KM, Iy- 6.411KA, Ib- 6.201KA Main-II: Y-B-G, Z-I, 20.81Km, Iy- 6.497KA, Ib- 6.275KA				Line patrolling was done thoroughly & no fault was found
30	Bangiriposi	25-09-2020	21:06Hrs	21:58hrs	52mins.	2KV BANGIRIPOSI-R.R PUR LI	Incomer failure.				
35	BARGARH	30-09-20	19:58:00	01-10-2020 10:10:00	852	40 MVA TRANSFORMER-III	EARTHFAULT				33 KV B-PH LA BRUST OF 33 KV INCOMER-III
38	BARIPADA	07-09-20	20:05:00Hr	07/09/2020 20:26Hr	00Hr 21Min	132 Kv Baripada – Betnoti Line	Source Failure from Betnoti Grid				132 Kv Baripada- Betnoti Line was ideal charge condition From Betnoti Grid End.
40	BARIPADA	14-09-20	16:25:00Hr	14/09/2020 16:51:00 Hr	00Hr 26Min	132/33KV 40MVA TRF No.-II	132 Kv Side Relay Details Master Trip Back Up Relay Details 132 Kv Side O/C in B-Phase, E/F Trip 33 Kv Side Master Trip Back Up Relay Details O/C B-Phase, E/F Trip				P/S Restored at Baripada Grid by charging 40 MVA 132/33 Kv Trf No.I at 16:48 Hr Dated 14.09.2020
41	BARIPADA	14-09-20	16:25:00Hr	14/09/2020 17:02:00 Hr	00Hr 37Min	132/33KV 40MVA TRF No.-III	132 Kv Side Relay Details Master Trip Back Up Relay Details 132 Kv Side L3 PU, E/F PU 33 Kv Side Master Trip REF Trip Back Up Relay Details O/C B-Phase, E/F Trip				P/S Restored at Baripada Grid by charging 40 MVA 132/33 Kv Trf No.I at 16:48 Hr Dated 14.09.2020
43	Basta	18.09.2020	11:13	12:22	01:09	132 KV Basta-Jaleswar FDR	O/C & E/F OPTD (No DP operated) General Trip, B-Ph Trip, E/F Trip, VT Fuse fail. IL1-0 KA IL2- 0 KA IL3-1.9 KA				FDR was idle in charged condition
46	Bhadrak	16-09-2020	11:04:00	11:40:00	0:36	132 KV DPCL-II	B-Ph E/F Ia=29 Amp-Ib=21 Amp,Ic=2.616 KA,In=2.628 KA,Fault loop=C-N,D,P relay optd,Zone-I,Distance=22.49 K.M				DPCL-II Feeder charged through Bus coupler During this period 132 KV DPCL-II feeder availed P/S through DPCL-I feeder.
47	BHANJANAGAR	02-09-2020	12:49	12:58	00:09	220KV Bhanjanagar-Nayagarh FDR	CN,Z-1,D-49.09KM IF-2.69KA				
48	BHANJANAGAR	05-09-2020	11:29	15:04	03:35	20 Kv Bhanjanagar-Meramundali ct	CGT,Z-2,D-112.57KM IF-2.69KA				
49	BHANJANAGAR	09-09-2020	13:02	13:15	00:13	220 KV Bhanjanagar-NARSHING PUR FEEDER	AN,Z-1,D-66.28KM IF-1.41KA				
50	BHANJANAGAR	10-09-2020	11:58	12:10	00:12	220 KV Bhanjanagar-NARSHING PUR FEEDER	CN,Z-1,D-25.8KM IF 3.26KA				
51	BHANJANAGAR	18-09-2020	20:38	20:48	00:10	220 KV Bhanjanagar-Aska New Ckt - I	CN,Z-1,D=11.92KM				
52	BHANJANAGAR	20-09-2020	22:38	22:52	00:14	220 KV Bhanjanagar-NARSHING PUR FEEDER	CGT,Z-1,D-32.28KM				
70	Bidanasi	08.09.20	14.45 Hrs	14.52 Hrs	07 mins	220 KV CTC Ckt-II Feeder	B-phase to Ground ,Ib=1.625KA				There is no interruption to Cuttack Grid as another ckt is in charged condition
71	Bidanasi	22.09.20	15.31 Hrs	15.36 Hrs	05 mins	132 KV Choudwar Feeder	Tripped both end,at Bidanasi end Zone-I,Y-Phase to Ground fault, DP-10.01Km,Ib=5.881KA. At Choudwar end Zone-I,O/C Y-phase.				
79	CUTTACK	08.09.2020	14:45	14:52	00:07	220kV Bidanasi- Cuttack-II	Tripped at Bidanasi end only. At this end bkr is in closed condition				220kV Bidanasi- Cuttack-I was in service

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
80	CUTTACK	08.09.2020	14:45	15:17	00:32	132kV CTC-JSPR Feeder	o/c in B-ph, E/F. DP relay- Dist.-1.877km, Ia-8.572A, Ib-9.757A, Ic-6.834kA.				Tripped during heavy lightning & rain. The line was in idle charged condition.JSPR availing supply from Paradeep
81	Dhenkanal	02-09-2020	00:40	00:56	00:16	132KV DKL-MRDL Line	CB tripped. 1. R-G, Ir=1.994kA, Dist-16.32km, Z1, B/U not operated. Meramundali end: CB tripped. 1. R-G, Ir=3.51kA, Dist-24.09km, Z-1, B/U not operated.				
83	Infocity-II GIS	08.09.2020	14:50	15:00	10 MIN	220KV Mendhasal-Infocity-II line.	O/C/E/F Fault operated.				
84	J.Road	07-09-2020	10:52	11:03	09min	132KV Jaipur Road- Kendrapada Feeder	DP RELAY OPERATED, Ib=1.863KA, Zone-1, Fault resistance=1.47Ω, Fault Location=45.37KM				
87	Jaleswar	07.09.2020	15:45	17:18	01:33	132KV JALESWAR - KUCHEI FDR	DP RELAY INDICATION AT JALESWAR END Z1, Rph-Yph-Ground, Distance :-26.0 KM , Ir-93.7 A, Iy-216.1 A, Ib-9.6 A, Vm-06.54 KV,Vyn-06.39 KV,Vbn-27.52KV AT KUCHEI END Z1, Rph-Yph-Ground, Distance :-27.99KM , Ir-2.427 KA, Iy-3.120 KA, Ib-256.4 A, Vm-39.02 KV, Vyn-44.68 KV, Vbn-74.85 KV				
88	Jaleswar	26.09.2020	20:24	21:04	00:40	132KV JALESWAR - KUCHEI FDR	DP RELAY INDICATION AT KUCHEI END Z1, Bph-Ground, Distance :-31.5KM , Ir-157.9A, Iy-306A, Ib-1.975KA, Vm-72.15 KV, Vyn-74.75 KV, Vbn-45.45 KV				
91	Jharsuguda	06-09-2020	01:51	02:48	57 mins	132 kv B.Padar-jharsuguda ckt-II	Due to incoming supply failed.				
93	Jharsuguda	06-08-2020	01:51	13:36	11 hr 44mins	132 kv Lapanga-jharsuguda fdr	snapped earth wire at loc no-124 to 125				
96	Jharsuguda	23-09-2020	13:17	13:51	34mins	132 kv B.Padar -jharsuguda ckt-I	O/C				
98	Kalunga	01.09.2020	01.09.2020 22:10	02.09.2020 12:16	14:06:00	132 KV Kalunga- Budhipadar	DP Relay- Tripped Phase- R-Y-B, Zone- 1, Fault location- 20.32 km, Fault duration- 18.34 ms, Ir-5.295 KA, Iy-5.766 KA, Ib-5.296 KA Tripped at Budhipadar end Fault Location: 101.9 km, Zone-2, Loop: L1-L2, Ir: 1.72 KA, Iy: 1.63 KA, Ib: 1.77 KA				Due to thunder and lightning, one Y ph suspension insulator string was damaged at loc no-40
99	Kalunga	07.09.2020	02:29	03:26	0:57:00	132 KV Kalunga- Budhipadar	DP Relay- Tripped Phase- R-N, Zone- 3, Fault location- 159.2 km, Fault Duration- 631.5 ms, Ir-880.9 A, Iy-236.6 A, Ib-151.0 A Backup Relay- Tripped Phase- R-N, Ir- 858.7 A, Iy-118.7 A, Ib-124.3 A, In-895.6 A Tripped at Budhipadar end Fault Location: 12.8 km, Zone-1, Ir: 4.349 KA				Due to thunder and lightning
100	Kalunga	10.09.2020	18:26	20:01	1:35:00	132 KV Kalunga- Budhipadar	DP Relay- Tripped Phase- R-B-N, Zone- 1, Fault location- 18.31 km, Fault Duration- 66.67 ms, Ir-4.903 KA, Iy-209.7 A, Ib-5.709 KA Tripped at Budhipadar end Fault Location: 96.38 km, Zone-2, Ir: 1.38 KA, Ib: 1.63 KA				Due to thunder and lightning
101	Kalunga	16.09.2020	13:19	13:27	0:08:00	132 KV Kalunga- Budhipadar	DP Relay- Tripped Phase- Y-N, Zone- 1, Fault location- 52.92 km, Fault Duration- 51.68 ms, Ir-96.47 A, Iy-2.345 KA, Ib-135.0 A Tripped at Budhipadar end Fault Location: 69.744 km, Zone-1, Iy: 1.285 KA				Due to thunder and lightning
102	Kalunga	19.09.2020	19.09.2020 10:48:00	22.09.2020 16:44	77:56:00	132 KV Kalunga- Budhipadar	DP Relay- Tripped Phase- Y-N, Zone- 3, Fault location- 222.2 km, Fault Duration: 620.5 ms, Ir-52.83 A, Iy-803.0 A, Ib-228.3 A Backup Relay- Tripped Phase- Y-N, Ir- 44.49 A, Iy-798.4 A, Ib-232.2 A, In-527.5 A				Due to thunder and lightning
103	Kalunga	27.09.2020	10:50	11:03	0:13:00	132 KV Kalunga- Budhipadar	DP Relay- Tripped Phase- Y-N, Zone- 1, Fault location- 54.06 km, Fault Duration: 60.01 ms, Ir-194.9 A, Iy-1.788 KA, Ib-205.6 A Tripped at Budhipadar end Fault Location: 75.45 km, Loop-L2-N, Zone-1, Iy: 1.103 KA Backup Relay- Tripped Phase- Y-N, Ir- 169.2 A, Iy-1.533 KA, Ib-229.4 A, In-1.691 KA				Due to thunder and lightning
105	Kamakhyanagar	12.09.2020	12:36 Hrs	12.09.2020 13:08 Hrs	00:32	132 KV K. Nagar-Duburi	DP & M/T- 86				
109	Kendrapara	09.09.2020	16:54Hrs	16:22Hrs	00:28Hrs	JAIPUR ROAD-KENDRAPARA	LINE NORMALLY IDLE CHARGED FROM JAIPUR ROAD END. CHARGED FOR 00.32Hrs AS P/S FAILED FROM PARADEEP GRID.				

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
110	Khajuriakata	18-09-2020	19:40 Hrs	20:15 Hrs	0 Hrs 35 Mins	132KV Khajuriakata-Dhenkanal-Nuapatana T-Line	B-G Fault, Zone- II, Dist- 44.62 Kms, If= 0.477KA Dhenkanal End B-G Fault, If= 1.43KA Nuapatana End Y-G Fault, Zone-I, Dist- 17.22 Kms, If= 1.79KA				
111	Khurda	04.09.20	01:05	01:14	00:09	132 Kv Khurda-Atri CKT-1	O/C R+ & E/F				Tripped at Atri end on O/C R+ E/F
116	Lapanga	28.09.20	12:16	13:07	00:51	400kV Meramundali-Lapanga Ckt-II	Tripped at Lapanga end.				
118	Marshughai	09-09-2020	15:44	16:52	01:08	132KV PDP-MGH FEEDER	IL1=0.06KA, IL2=0.15KA, IL3=0.10KA				
123	Meramundali	05.09.20	11:44	18:47	07:03	400kV Meramundali-Lapanga Ckt-II	Meramundali end: DP, Y-E, 105.2km, 5.88KA. Lapanga end: DP, Y-E, 130.6km, 3.06KA.				
124	Meramundali	15.09.20	18:38	20:13	01:35	400kV Meramundali-GMR feeder.	Master trip relay & DTT relay.				
125	Meramundali	17.09.20	10:31	16:46	06:15	400kV Meramundali-Lapanga Ckt-II	Meramundali end: DP, Z1, Y-E, 40.5km, 10.42KA. Lapanga end: DP, Z1, Y-E, 152.5km, 2.638KA.				
126	Meramundali	23.09.20	11:24	19:04	07:40	400kV Meramundali-Lapanga Ckt-I	Meramundali end: DP, Z1, B-E, 169.6km, 2.46KA. Lapanga end: DP, Z1, B-E, 25.29km, 9.53KA.				
127	Meramundali	24.09.20	11:04	19:33	08:29	400kV Meramundali-Lapanga Ckt-I	Meramundali end: DP, Z1, B-E, 170.7km, 2.47KA. Lapanga end: DP, Z1, B-E, 25.2km, 9.43KA.				
128	Meramundali	29.09.20	13:25	19:04	05:39	400kV Meramundali-Lapanga Ckt-II	Meramundali end: DP, Z2, R-E, 197.7km, 2.27KA.				
129	Meramundali	29.09.20	11:47	15:38	03:51	400kV Meramundali-Lapanga Ckt-I	Meramundali end: DP, Z1, R-E, 56.8km, 7.75KA. Lapanga end: DP, Z1, 153.7km, 2.07KA.				
130	New Duburi	14.09.2020	13:36HRS	14:46HRS	01:10	315MVA, 400/220KV ICT-2	Differential Trips(7UT61)				No interruption as the 315MVA, 400/220KV ICT-1 in charge condition
131	New Duburi	15.09.2020	09:00 HRS	14:17 HRS	05:17	440KV New Duburi-Meramundali CKT-II	FACIA-MAIN-1 & MAIN 2 PROTECTION OPERATED, BACK UP RELAY OPERATED, CB PDR OPERATED, TIE CB A/R UNSUCCESSFUL, CB TROUBLE OPERATED, TC-1/2 RELAY FAULTY, 50LBB PROTECTION OPTD MAIN -1 DP-GENERAL TRIP, B-PHASE TRIP, ZONE -1, IL3=3.03KA, DISTANCE ~66.9 KM, A/R CLOSE COMMAND ON NEXT EVENT-3-POLE TRIP, IL3=4.89KA, DIST=58.7KM MAIN -2 DP-GENERAL TRIP, B-PHASE TRIP, ZONE -1, IL3=3.03KA, DISTANCE ~66.2KM NEXT EVENT-IL3=4.90KA, DIST=57.9KM LBB- GENERAL TRIP, B-PH E/F P.U, LBB TRIP, TRIP TIME=301ms, IL3=4.83KA				B POLE OF 400KV ND-MRDL CKT02 MAIN CB DID NOT TRIP 400KV BUS-1 LBB OCCURRED, 400KV ND-PANDIABILLI MAIN CB, 400KV ND-MRDL CKT 01 MAIN CB, 400KV REACTOR CB & 400KV TSL CKT 01 MAIN CB TRIPPED at 09.00hr. But all the above feeder charged through Tie CB). 400KV BUS-1 & all above said feeder charged through its respective main CB & stood ok at 12.22hr
132	New Duburi	18.09.2020	11:40HRS	17:12HRS	05:32	220KV New Duburi-Balasore Line	FACIA-MAIN 1 & MAIN 2 DP OPERATED, GR-A/B RELAY OPTD MAIN -1 DP-GENERAL TRIP, Y & B PHASE TRIP, ZONE-2, PU TIME= 402ms, TRIP TIME=351ms, DIST=129.0KM, IL2=1.90KA, IL3=1.83KA, L23 FAULT MAIN -2 DP-ANY TRIP, Y & B PHASE TRIP, ZONE-2, FAULT DURATION=381.7ms, DIST=127.7KM, IL2=1.762KA, IL3=1.695KA, L23 FAULT, A/R BLOCK Balasore End Data- MAIN 1 DP-Y & B PH TRIP, DIST=7.709KM, IL2=5.386KA, IL3=5.380KA MAIN 2 DP-Y & B PH TRIP, ZONE-1 TRIP, DIST=110.71KM, IL2=1.691KA, IL3=1.723KA				Y PH JUMPER SNAPPED AT LOCATION NO 425
133	New Duburi	19.09.2020	21:39HRS	21:39HRS	00:00	220KV New Duburi-Balasore Line	FACIA- MAIN 2 DP OPERATED MAIN -1 DP-B PH E/F PICK UP MAIN -2 DP- ANY TRIP, B PHASE TRIP, ZONE-1, TRIP TIME=80.10ms, DIST=111.7KM, IL3=1.422KA, A/R CLOSE Balasore End Data- MAIN 1 DP- B PH TRIP, DIST=16.7KM, IL3=3.941KA, A/R OPERATED MAIN 2 DP- B PH TRIP, ZONE-1 TRIP, DIST=15.35KM, IL3=4.049KA				A/R SUCCESSFUL AT BOTH ENDS
156	Nuapatna	01-09-20	00:40	00:58	18 minutes	132KV Nuapatna-Khajuriakata-Denkanal "T" line	E/F, Bphase				Distance protection-65.571 kms, zone2

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
158	Nuapatna	07-09-20	22:30	22:35	5 minutes	40MVA Transformer2	E/F				Due to 33kv surge arrester burst of transformer1.
159	Nuapatna	07-09-20	22:30	22:35	5 minutes	12.5MVA Transformer3	E/F				Due to 33kv surge arrester burst of transformer1.
160	Nuapatna	18/09/20	18:54	19:30	36 minutes	132KV Nuapatna-Arati feeder	E/F, Y phase O/C				Distance protection- 18.69kms,zone 1
161	Nuapatna	18/09/20	19:39	20:13	34 minutes	132KV Nuapatna-Khajurikata-Denkanal 'T' line	E/F, Y phase O/C				Distance protection- 17.22kms,zone 1
162	Nuapatna	18/09/20	19:39	20:15	36 minutes	132KV Nuapatna-Arati feeder	E/F, Y phase O/C				Distance protection- 14.15kms, zone1
163	Nuapatna	24/09/20	19:54	20:12	18 minutes	20MVA Transformer1,33KV side	R phase O/C				Fault
164	Nuapatna	24/09/20	19:54	20:12	18 minutes	40MVA Transformer2	No indication				Fault
188	Rajgangpur	01-09-2020	22:00	23:02	01:02	132KV RAJGANGPUR-BUDHIPADAR FEEDER	DP OPERATED,AGT, Ia=1969 A, IG-2123 A, LOC-34.69K.M,ZI B.Padar end:DP OPERATED,AGT,Ia=1993 A, LOC-48.064K.M,ZI				
189	Rajgangpur	01-09-2020	23:30	23:39	00:09	132KV RAJGANGPUR-KUCHINDA FEEDER	DP OPERATED, CGT, Ic=1352 A, IG-1374 A, ZONE-1 LOC-59.68Km No tripping at Kuchinda end.				
190	Rajgangpur	07-09-2020	02:26	03:33	01:07	132KV RAJGANGPUR-BUDHIPADAR FEEDER	DP , AGT,ZI,Ia=1207A,Ig=1044A ,LOC-65.68KM At B.Padar end: DP ,LIE,ZI,Ia=1490A ,LOC-11.05KM				
191	Rajgangpur	08-09-2020	08:00	17:12	09:12	132KV RAJGANGPUR-TARKERA FEEDER-I	64N				
192	Rajgangpur	10-09-2020	18:34	19:21	00:47	132KV RAJGANGPUR-TARKERA FEEDER-I	AGT,Ia=2648,Ig=2648,ZI,LOC-12.35K.M At Tarkera end: AGT,Ia=4967,Ib=5255,Ig=5252,ZI,LOC-13.19K.M				
193	Rajgangpur	13-09-2020	11:00	11:14	00:14	132KV RAJGANGPUR-TARKERA FEEDER-I	E/F,64N				
194	Rajgangpur	15-09-2020	18:53	19:02	00:09	132KV RAJGANGPUR-KUCHINDA FEEDER	DP , AGT,ZI,Ia=1292A,Ig=1326A ,LOC-59.27KM At Kuchinda end: MASTER TRIP OPERATED.				
195	Rajgangpur	19-09-2020	10:49	11:04	00:15	132KV RAJGANGPUR-BUDHIPADAR FEEDER	BACKUP OPERATED,Ia=69,Ib=298,Ic=256,Ib=550				
196	Rajgangpur	19-09-2020	10:49	11:07	00:18	132KV RAJGANGPUR-TARKERA FEEDER-I	64N				
197	Rajgangpur	21-09-2020	07:30	07:43	00:13	132KV RAJGANGPUR-KUCHINDA FEEDER	DP , AGT,ZI,Ia=1963A,Ig=2009A ,LOC-38.00KM				
198	Rajgangpur	23-09-2020	13:14	20:37	07:23	132KV RAJGANGPUR-BUDHIPADAR FEEDER	E/F,MASTER TRIP,Cn,Ia=288,Ib=62,Ic=443,Ib=216				
200	Rengali	22.09.20	02:28	03:13	00:45	220KV RENGALI S/Y -BARKOTE FDR-I					
201	Rengali	22.09.20	02:28	02:55	00:27	220KV RENGALI S/Y OPTCL-RPH FDR-I	tripped at RPH end only				
202	Rengali	22.09.21	02:28	02:55	00:27	220KV RENGALI S/Y OPTCL-RPH FDR-II					
208	Sundargarh	01.09.2020	23:04	08:40	09:36:00	132 KV Budhipadur-Sundargarh Ckt-2	DP:AGT,Zone-1 ,loc.-22.05 km, Ir=830 A ,Jy=24 A, Ib=18 A ,In=870 A Bpadar end:DP Zone1, AGT,Loc:1.0 km, Ir=6.67 KA.				Due to Heavy lightning and bad weather.
209	Sundargarh	23.09.2020	13:17	13:54	00:37:00	132 KV Budhipadur-Sundargarh Ckt-2	DP:CGT, Zone-1, Loc.-242.81 km, Ir=50 A ,Jy=78 A,Ib=27 A, In=130 A B/U:Ir=0.05 KA,Iy=0.08 KA, Ib=0.03 KA, Ia=0.03 KA O/C,R,Y,B-phase,Ir=0.59 KA, Jy=0.62 KA, Yb=0.57 KA O/C,R,Y,B-phase				
212	Sundargarh	13.09.2020	01:22	02:04	00:42:00	20 MVA TRF-2					
213	Sundargarh	13.09.2020	01:22	02:19	00:57:00	20 MVA TRF-3					
214	Sundargarh	23.09.2020	13:17	14:06	00:49:00	20 MVA TRF-3					
215	Tarkera	08.09.2020	01:10 Hrs	01:21 Hrs	11 Min	132 KV 100MVA AT-I	EARTH FAULT (64X)				
216	Tarkera	08.09.2020	01:10 Hrs	01:28 Hrs	18 Min	132 KV 100MVA AT-II	EARTHFAULT AND MASTERTRIP(ABB)				
217	Tarkera	08.09.2020	01:10 Hrs	01:20 Hrs	10 Min	132 KV 100MVA AT-III	NUMERICAL BACKUP EARTHFAULT IB=2.452KA IN MEASURED-2.226KA IN DERIVED-2.215KA				
219	Tarkera	08.09.2020	01:10 Hrs	11:05 Hrs	9 Hr 55 Min	132 KV Tarkera-Rourkela Ckt-II	EARTHFAULT YPH (64X)				CT Y Phase Jumper Snapped of Rkt Ckt II at rourkela Grid
220	Tarkera	08.09.2020	01:10 Hrs	09.09.2020 14.11 Hrs	3 Hr 06 min	132 KV Tarkera-Rourkela Ckt-III	EARTHFAULT YPH (64X)				CT Y Phase Jumper Snapped of Rkt Ckt III at rourkela Grid
221	Tarkera	13.09.2020	11:05 HR	11:14 HR	9 Mins	132 KV TKR-RGP CKT-I	Backup Relay - O/C: B Phase , IIS- 1.1 kA DP-Zone-1, Dia=14.78 Km,%=78.08; Loop- L3 ,N, IL3=1.57 KA, IN=1.49KA Rengali end: DP Relay (Distance- 112.50 Kms ; Loop- L3 ,N , %age=83.98%)				
222	Tarkera	22.09.2020	2:28 Hrs	03.13 Hrs	45 Mins	220 kV Tarkera Rengali Ckt II					
223	Tarkera	25.09.2020	15:37 hr	25.09.2020 to 16.29 Hrs	52 Min	220 kV Tarkera B.Padar Ckt 2	DP(Zone- 1, Loop-B ,N, Distance-6.95 kms, Ib- 8.65 kA , In=9.24 kA) B.Padar end:DP (Zone 1 , Distance - 80.6 km , Ib- 2.12 kA).				
224	Tarkera	25.09.2020	20:19 hr	25.09.2020 to 21.13 Hrs	54 Min	132 kV Tarkera Rourkela Ckt II	O/C- R Phase				

Sl. No.	Sub-Station	Date	From	To	Duration (HH:MM)	Lines / Equipments / Generating Units tripped	Relay Indication / Cause	Grid Sub-stations affected (It can be more than one)	Area Interruption period	Energy Loss in MU	Remarks
226	Tarkera	28.09.2020	10.54 hr	28.09.2020 To 11.10 HRS	16 Min	220 kV Tarkera B.Padar Ckt 1	DP(Zone-1, Loop-L3-E, Distance=80.2 kms, IL3=1.86 kA, REL DISTANCE=78.6%) B.Padar end: DP(Loop-L3-E, Distance=15.30 kms, IL3=6.35 kA, REL DISTANCE=13.9%)				
227	Tarkera	29.09.2020	16.10 Hr	29.09.2020 to 17.59 Hrs	1 Hr 49 Min	220 kV Tarkera B.Padar Ckt 2	DP(Zone-1, Loop-B N, Distance=7.67 kms, Ib=7.60 kA, Is=8.10 kA) B.Padar end: DP (Zone 1, Loop- L3 N, Distance = 82.9 km, IB=1.92 kA)				Spark Over occurred due to falling of tree inside Mahavir Unit. The feeder charged after removing the tree under the line
228	Therubali	01.09.20	11:26	11:39	0:13	220 KV Thv- Kolab ckt	CN, ZONE-1, 36.18KM,IL3=2.45KA at Thv end. C-N, ZONE-2, NO Distance shown at Kolab end.				
229	Therubali	01.09.20	20.03	20.13	00:10	220 KV Thv- Bhanjanagar ckt-2	AN, ZONE-1, 112.7KM,IL1=1.45KA at Thv end. R-ph E/F, ZONE-1, 29.97 km, IL1=3.3 kA at Bhanjanagar end.				
230	Therubali	08.09.20	16:10	16:54	00:44	220 KV Thv- Indravati ckt-3	CGT, ZONE-1, 48.83 KM,IL3=2.7 KA at Thv end. CGT, ZONE-1, 52.11 KM & IL3=2.4 KA at Indravati end.				Delayed in charging due to heavy rain at Therubali end.
231	Therubali	08.09.20	16:28	16:55	00:27	220 KV Thv- Npur ckt-1	CGT, ZONE-1, 131.8 KM,IL3=1.2 KA at Thv end. CGT, 42.9 KM at Narendrapur end.				Delayed in charging due to heavy rain at Therubali end.
232	Therubali	09.09.20	14:27	14:40	00:13	132 KV Therubali- Rayagada ckt	BGT, IL2=4.27 kA at Therubali end. No tripping at Rayagada end.				
233	Therubali	09.09.20	23:31	23:37	00:08	132 KV Therubali- Mumiguda-Vedanta-Kesinga ckt	ABCT, IL1= 542A, IL2=509 A, IL3=433 at Therubali end.				
234	Therubali	11.09.20	11:45	14:09	00:10	220 KV Thv- Laxmipur ckt-1	AN, Z-1, 26.15 km, IL1= 2.94 kA at Thv end. AN, Z-1, 35.15 km, IL1= 2.34 kA at Lxpur end.				
235	Therubali	12.09.20	10:21	10:32	00:11	220 KV Thv- Bhanjanagar ckt-2	CN, Z-1, 71.7 km, IL3=1.85 kA at Thv end. B-ph E/F, Z-1, 118.9 km, Ib= 1.12 kA at Bngr end.				
236	Therubali	15.09.20	11:23	11:41	00:18	220 KV Thv- Laxmipur ckt-1	AN, Z-1, 10.3 km, IL1= 4.39 kA at Thv end. R-ph E/F, Z-1, 34.8 km, Is= 4.45 kA at Lxpur end.				
237	Therubali	17.09.20	11:29	11:38	00:09	220 KV Thv- Kolab ckt	BN, Z-2, 116.6 km, Ib=1.3 kA at Thv end. BN, Z-1, 5.89 km, Ib= 7.5 kA at Kolab end.				
238	Therubali	17.09.20	11:56	12:01	00:05	220 KV Thv- Laxmipur ckt-1	AN, Z-1, 23.46 km, IL1= 3.27 kA at Thv end. R-ph E/F, Z-1, 38.8 km at Lxpur end.				
239	Therubali	17.09.20	12:34	17:15	04:41	220 KV Thv- Kolab ckt	BN, Z-1, 22.87 km, Ib=3.18 kA at Thv end. BN, Z-2 at Kolab end.				
241	Therubali	25.09.20	10:23	12:33	02:10	220 KV Thv- Bhanjanagar ckt-2	CN, ZONE-1, 3.7KM,IL3=5.92KA at Thv end. BN, ZONE-1, 149.2 km, Ib=671 A at Bhanjanagar end.				
242	Therubali	25.09.20	11:51	08:18	20:37	220 KV Therubali- Kashipur- Jayapatna-Indravati ckt-4 tripped in between Indravati and Jayapatna	Ind end:- BC (O/C), Zone-1, 534.9 m, Ib= 7.54 kA, Is=7.52. Jayapatna end:- YB ph (O/C), Zone-1, 16.6 km, Ib= 800 Amp, Is= 840 Amp.				Not tripped at Therubali end. Kashipur & Jayapatna were availing power from Therubali grid.
243	Therubali	28.09.20	11:59	12:08	00:09	220 KV Thv- Bhanjanagar ckt-2	C-N, Z-1, 86.38KM, Ib=1.6KA at Therubali end. B-E, Z-1, 86.24KM, IB=1.435KA at Bhanjanagar end.				
245	TIRTOL	01.09.2020	09:56	13:32	03:36	40 MVA TRF-II	O/C				O/C

SYSTEM DISTURBANCE IN THE MONTH OF SEPTEMBER- 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
22	Atri	18.09.2020	11:55	12:11	16min	132KV Atri- Samuka	O/C, Bph, 404 A	Samuka	00:16	0.003983519	
23	Atri	30.09.2020	10:11	10:28	17min	132KV Atri- Samuka	DP, Rph-2.4 kA, Yph-2.1 kA, 54.73 km	Samuka, Pari, Samangara, satasankha	00:17	0.014338169	
24	Atri	30.09.2020	13:54	13:58	4min	132KV Atri- Chandpur	DP, Bph-3.853 kA, 20.35 km	Chandpur	00:04	0.000719583	
26	Balasure	07.09.20	20:05	20:21	00:16	132KV Balasure-Udala feeder	At Balasure end: DP RELAY:- Z-I, Y-G, 42.13Km, Fault current: ly-1.754KA At Udala end: Z-I, Y-G, Ir=0.23KA, Iy=0.13KA, Ib=0.08KA, Distance-14Km	Udala, Betanati	00:16	0.005576673	During the time of tripping, there was heavy lightning & rain
27	Balasure	11.09.20	12:28	12:46	00:18	132KV Balasure-Soro feeder	At Balasure end: Y-N,Z-2, fault distance-40.60Km, fault current- 2.301KA	Soro	00:18	0.012711811	After line patrolling no fault was found. Soro Grid availed P/S from Bhadrak grid
29	Bangiriposi	25-09-2020	21:06Hrs	10:13hrs.of 26-09-2020	13hrs:17mins	V KUCHEI-BANGIRIPOS PGCIL	DP relay indication details:- Distance:-5.9km, Fault loop L1-E, No fault current, CVT fuse fail indication. NO indication at Kuchei end.	Bangiriposi Rairangpur Karanja, Dhenkikote.	0:52 0:49 0:48	0.008071 0.01316 0.013017	R-ph jumper piece snapped at LOC. No.- 104 & rectified. Karnjia availed PS from Palaspanga at 21:54Hrs. PS extended to Rairangpur at 21:59Hrs and at 21:58 Hrs to Bangiriposi.
31	Barbil	17/09/2020	17:19Hrs	17:41Hrs	00:22Hrs	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 type- ABC, Zone- I, Location- 2.75KM, LA- 2.25KA, IB- 7.43KA, IC- 8.43KA, IG- 6.69KA	Barbil, Bolani, Arya S/S, BRPL S/S	00:22	0.0073472	I/C failed from source due to heavy lightning at Joda and Barbil end with rain.
32	Barbil	17/09/2020	17:19Hrs	17:45Hrs	00:26Hrs	132 KV Barbil - Bolani 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 type- ABC, Zone- I, Location- 2.75KM, LA- 2.25KA, IB- 7.43KA, IC- 8.43KA, IG- 6.69KA	Bolani S/S, Arya S/S and BRPL S/S	00:26	0.0086831	I/C failed from source due to heavy lightning at Joda and Barbil end with rain.
33	BARGARH	17-09-20	13:59:00	14:21:00	22	132 KV Bargarh- Katapali Feeder	OVERCURRENT	Bargarh, ACC cement	00:22	0.019954674	PULLED OUT DUE TO 33 KV MAIN BUS B- PH DISC INSULATOR PUNCTURED
34	BARGARH	30-09-20	19:58:00	20:20:00	22	132 KV Bargarh- Katapali Feeder	EARTHFAULT	Bargarh, ACC cement	00:22	0.019954674	PULLED OUT DUE TO 33 KV B-PH LA BRUST OF 40 MVA TFR-III
36	BARIPADA	07-09-20	20:05:00Hr	07/09/2020 20:21Hr	00Hr 16Min	132 Kv Balasure-Udala Line	Relay Indication at Balasure Grid end DP Relay:SEL 311C Distance -42.13 Km ,Zone-1, Y-Phase G IL1-232A,IL2- 1754 A,IL3-68A. Relay Indication at Udala Grid end Distance - 14 Km ,Zone-1, Y-Phase G, Ia- 23KA,Ib-0.13K A,Ic-0.08KA.	Udala	00:16:00	0.00320351	
37	BARIPADA	07-09-20	20:05:00Hr	07/09/2020 20:26Hr	00Hr 21Min	132 Kv Betnoti- Udala Line	Source Failure from Udala Grid	Betnoti	00:21:00	0.003114777	
39	BARIPADA	14-09-20	16:25:00Hr	14/09/2020 16:48:00 Hr	00Hr 23Min	132/33KV 40MVA TRF No.-I	132 Kv Side Relay Details Master Trip Back Up Relay Details 132 Kv Side O/C in B-Phase, E/F Trip 33 Kv Side Master Trip Back Up Relay Details O/C B-Phase, E/F Trip	Baripada Grid	00:23:00	0.011032667	P/S Restored at Baripada Grid by charging 40 MVA 132/33 Kv Trf No.I at 16:48 Hr Dated 14.09.2020
42	Basta	16.09.2020	08:31	10:51	02:20	132 KV Balasure-Basta FDR	Tripped on Distance Protection, Y ph to GND , DP Operated; Zone-1, Loc-18 KM, Iy= 1.873 A	Basta	00:30	0.008725001	Power supply availed from Jaleswar grid end at 09:01.
44	Berhampur	27 th SEPT 20	16:38hrs	16:59hrs	0:21hrs	2KV Berhampur-Digapahandi SC I	DP relay operated, master trip optd. Zone-1 R-phase fault loc. 302.3m	Digapahandi, Chikiti	00:21	0.010083552	Heavy rain outside
45	Bhadrak	06-09-2020	12:20	12:40	0:20:00	132 KV Railway-Traction	General Trip, Y-Ph and B-Ph O/C PULIL2=0.25 KA,IL3=0.25 KA,Fault loop=L2-L3.	Bhadrak Traction	00:20	0.001697634	132 KV Railway Traction feeder tripped at Bhadrak Grid s/s and not at Railway grid s/s i.e. Remote end
53	Bhawaniapatna	04-09-2020	20:10	20:15	5	132kV VAL-Kesinga Fdr	O/C, B-Phase	Kesinga,Powmex, Trac, BHAWANIPATNA, Junagarh	5	0.009284016	
54	Bhawaniapatna	05-09-2020	21:20	21:22	2	132kV VAL-Kesinga Fdr	O/C, B-Phase	Kesinga,Powmex, Trac, BHAWANIPATNA, Junagarh	2	0.002321004	
55	Bhawaniapatna	09-09-2020	23:32	23:37	5	132kV TVL-Kesinga Fdr tripped at at TVL end.	O/C	BHAWANIPATNA	5	0.00580251	
56	Bhawaniapatna	10-09-2020	11:12	11:17	5	132kV VAL-Kesinga Fdr tripped at at VAL end.	DP, 11.5km	Kesinga,Powmex, Trac, BHAWANIPATNA, Junagarh	5	0.00580251	

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57	Bhawaniapatna	10-09-2020	15:58	16:07	9	132kV VAL-Kesinga Fdr tripped	DP at both end. Kesinga:10.5km	Kesinga,Powmex, Trac, BHAWANIPATNA, Junagarh	9	0.010444518	
58	Bhawaniapatna	11-09-2020	10:31	10:33	2	132kV VAL-Kesinga Fdr tripped	O/C at Kesing end.	Kesinga,Powmex, Trac, BHAWANIPATNA, Junagarh	2	0.002321004	
59	Bhawaniapatna	12-09-2020	18:29	18:31	2	132kV VAL-Kesinga Fdr tripped	O/C at Kesing end.	Kesinga,Powmex, Trac, BHAWANIPATNA, Junagarh	2	0.002321004	
60	Bhawaniapatna	13-09-2020	02:05	02:06	1	132kV VAL-Kesinga Fdr tripped	O/C at Kesing end.	Kesinga,Powmex, Trac, BHAWANIPATNA, Junagarh	1	0.001160502	
61	Bhawaniapatna	13-09-2020	19:22	19:24	2	132kV VAL-Kesinga Fdr tripped	O/C at Kesing end.	Kesinga,Powmex, Trac, BHAWANIPATNA, Junagarh	2	0.002321004	
62	Bhawaniapatna	15-09-2020	01:27	01:31	4	132kV VAL-Kesinga Fdr tripped	O/C at Kesing end.	Kesinga,Powmex, Trac, BHAWANIPATNA, Junagarh	4	0.004642008	
63	Bhawaniapatna	16-09-2020	18:40	18:42	2	132kV VAL-Kesinga Fdr tripped	O/C at Kesing end.	Kesinga,Powmex, Trac, BHAWANIPATNA, Junagarh	2	0.002321004	
64	Bhawaniapatna	20-09-2020	23:26	23:28	2	132kV VAL-Kesinga Fdr tripped	O/C at Kesing end.	Kesinga,Powmex, Trac, BHAWANIPATNA, Junagarh	2	0.002321004	
65	Bhawaniapatna	21-09-2020	03:54	04:00	6	132kV VAL-Kesinga Fdr tripped	DP, 76.6km at VAL end.	Kesinga,Powmex, Trac, BHAWANIPATNA, Junagarh	6	0.006963012	
66	Bhawaniapatna	21-09-2020	18:29	18:32	3	132kV VAL-Kesinga Fdr tripped	O/C at Kesing end.	Kesinga,Powmex, Trac, BHAWANIPATNA, Junagarh	3	0.003481506	
67	Bhawaniapatna	27-09-2020	20:52	20:53	1	132kV VAL-Kesinga Fdr tripped	O/C at Kesing end.	Kesinga,Powmex, Trac, BHAWANIPATNA, Junagarh	1	0.001160502	
68	BHOGRAI	07.09.2020	15:45	16:46	01:01	132KV Bhograi-Kuchei Line	Z-1, R-GROUND,LOC.-17.23KM,IR-2.432KA at Kuchei end.	Bhograi, Jaleswar, Trac	00:07	0.003669491	AVAILED POWER SUPPLY FROM JALESWAR GRID VIA BASTA GRID.
69	BHOGRAI	26.09.2020	20:24	21:12	00:48	132KV Bhograi-Kuchei Line	Z-1, B-GROUND,LOC.-31.76KM,IB-1.98KA at Kuchei end.	Bhograi, Jaleswar, Trac	00:11	0.005766343	AVAILED POWER SUPPLY FROM JALESWAR GRID VIA BASTA GRID.
72	Brajrajnagar	01.09.2020	23:58hrs	09:13hrs(dt:02.09.20)	555 mins	132KV Brajrajnagar-B.Padar Fdr	FFS	Brajrajnagar	09:15	0.282374213	
73	Brajrajnagar	02.09.2020	09:59hrs	10:38hrs	39 mins	132KV Brajrajnagar-B.Padar Fdr	FFS	Brajrajnagar	00:39	0.019842512	
74	Brajrajnagar	02.09.2020	10:38hrs	12:16hrs	98 mins	132/33KV TRF1	FDGD	Brajrajnagar	00:07	0.003561477	
75	Brajrajnagar	02.09.2020	10:38hrs	10:45hrs	07 mins	132/33KV TRF3	FDGD				

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76	Brairajnagar	02.09.2020	10:38hrs	12:17hrs	99 mins	132/33KV TRF4	FDGID				
77	Brairajnagar	02.09.2020	10:38hrs	10:39hrs	01 mins	132/33KV TRF5	FDGID				
78	Brairajnagar	23.09.2020	13:16hrs	13:49hrs	33 mins	132KV Brairajnagar-B Padar Fdr	FFS	Brairajnagar	00:33	0.016789818	
82	Dhenkanal	02-09-2020	12:09	12:23	00:14	132KV DKL-ACCL- KHUNTUNI Line	CB tripped, 1. Fault Loop-B-N, Ib=2.23KA, Distance= 30.3KM, Zone-2 B/U-E/F	Khuntuni	00:14	0.000734786	00:14Hr interruption to Grid S/S Khuntuni as CB at ICCL S/W Station was already in H/T condition.
85	Jagatsingpur	01-09-2020	09:57	11:16	01:19	132KV JSPUR - TIRTOL FDR	Incoming power supply to tirtol grid substation failed from Paradeep due to burst of station transformer at Tirtol.	Jspur Grid S/S, G.Nath TSS	00:02	0.001257062	Alternate supply availed from Cuttack end at 09:59 hrs
86	Jagatsingpur	09-09-2020	15:44	17:53	2:09:00	132KV JSPUR - TIRTOL FDR	Incoming power supply failed from tirtol grid substation without any relay indication JSPUR end.	Jspur Grid S/S, G.Nath TSS	00:05	0.003142656	Alternate supply availed from Cuttack end at 15:49 hrs
89	Jharsuguda	06-09-2020	01:51	02:12	21 mins	132 kv B.Padar-jharsuguda ckt-1	due to incoming supply failed from B.padar end	Jharsuguda	00:21	0.004343329	
90	Jharsuguda	06-09-2020	01:51	02:14	23 mins	132 kv Railway fdr	Due to supply fail.	Jharsuguda Trac.	00:23	0.007025503	
91	Jharsuguda	06-09-2020	01:51	02:48	57 mins	132 kv B.Padar-jharsuguda ckt-II	Due to incoming supply failed.				
92	Jharsuguda	06-09-2020	01:51	02:48	57 mins	132 kv ultratech fdr	Due to incoming supply failed.	Ultratech	00:57	0.008401855	
93	Jharsuguda	06-08-2020	01:51	13:36	11 hr 44mins	132 kv Lapanga-jharsuguda fdr	snapped earth wire at loc no-124 to 125				
94	Jharsuguda	18-09-2020	12:45	12:48	3 mins	132 kv Railway fdr	Dir O/C	Jharsuguda Trac.	00:03	0.00091637	
95	Jharsuguda	23-09-2020	13:17	13:49	32 mins	132 kv lapanga-jharsuguda fdr	Tripped from Lapanga end.	Jharsuguda, Traction Ultratech	00:32:00 0:39	0.016393 0.005749	
96	Jharsuguda	23-09-2020	13:17	13:51	34mins	132 kv B.Padar-jharsuguda ckt-I	O/C				
97	Kalarangi	21.09.20	15.39	15.49	0.10	132 KV Goda kalarangi line	Relay indication at Goda grid s/s- E/F- B-ph, IA-188.2A, IB-1.138 KA, IC-4.93KA, Fault loc-10.45km	Kalarangi	0.10	0.001734385	Tripped from 220/132/33kv grid s/s Goda due to heavy lightning, thundering & rain
104	Kamakhyannagar	01.09.2020	10:20 Hrs	01.09.2020 10:39 Hrs	00:19	132 KV K. Nagar-Duburi	E/F & M/T- 86	Kamakhyannagar	00:19	0.005096696	Unavailability of 132 KV supply due to TTPS incomer failure at OPCL Samal
106	Kendrapara	03.09.2020	12:42Hrs	12:47Hrs	00:05Hrs	ENDRAPARA-CHANDIKHOLE CT	TRIPPED ON DP RELAY WITH DIST.-25.80KM,Z-1,B-PHASE WITH M/R	CHANDIKHOLE	00:05	0.0024644	
107	Kendrapara	09.09.2020	15:44Hrs	16:22Hrs	00:38Hrs	KENDRAPARA - MARSHAGHAI	TRIPPED ON E/F WITH M/R.	KENDRAPARA, Chandikhol, Pattamundai, Olavar, Chandbali, Marshaghai	00:38	0.0171410	
108	Kendrapara	09.09.2020	15:44Hrs	16:54Hrs	01:10Hrs	V KENDRAPARA - PARADEEP C	TRIPPED ON E/F WITH M/R.				
109	Kendrapara	09.09.2020	16:54Hrs	16:22Hrs	00:28Hrs	J JAPUR ROAD-KENDRAPARA	LINE NORMALLY IDLE CHARGED FROM JAJPUR ROAD END. CHARGED FOR 00.32Hrs As P/S FAILED FROM PARADEEP GRID.				
112	Khurda	19.09.20	17:07	17:26	00:19	40 MVA TRF -1	O/C R,B &Y ^o	Khurda	00:18	0.016275048	Tripped on Tripping of 33 Kv Railway feeder.
113	Khurda	19.09.20	17:07	17:27	00:20	40 MVA TRF -2	O/C R,B &Y ^o				Tripped on Tripping of 33 Kv Railway feeder.
114	Khurda	19.09.20	17:07	17:30	00:23	40 MVA TRF -3	O/C R,B &Y ^o				Tripped on Tripping of 33 Kv Railway feeder.
115	Khurda	19.09.20	17:07	17:25	00:18	40 MVA TRF -4	O/C R,B &Y ^o				Tripped on Tripping of 33 Kv Railway feeder.
117	Marshaghai	06-09-2020	06:47	06:53	00:06	132KV RTSS KENDRAPARA FEEDER	DIR. O/C PICKED UP. IL1=0.84KA, IL3=0.84KA	RTSS Kendrapara	00:06	0.0000864	
119	Marshaghai	13-09-2020	16:05	16:08	00:03	132KV RTSS KENDRAPARA FEEDER	DIR. O/C PICKED UP. IL1=0.8KA, IL3=0.8KA	RTSS Kendrapara	00:03	0.0000432	
120	Marshaghai	16-09-2020	07:00	07:05	00:05	132KV RTSS KENDRAPARA FEEDER	DIR. O/C PICKED UP. IL1=0.8KA, IL3=0.8KA	RTSS Kendrapara	00:05	0.0000720	
121	Marshaghai	19-09-2020	00:09	00:18	00:09	132KV RTSS KENDRAPARA FEEDER	DIR. O/C PICKED UP. IL1=0.8KA, IL3=0.8KA	RTSS Kendrapara	00:09	0.0001296	
122	Marshaghai	25-09-2020	08:14	08:16	00:02	132KV RTSS KENDRAPARA FEEDER	DIR. O/C PICKED UP. IL1=0.84KA, IL3=0.84KA	RTSS Kendrapara	00:02	0.0000288	
134	Nimapara	29-09-2020	10:22	10:33	00:11	132KV Nimapara-Chandaka Feeder	At Chandaka End: Distance=40.33KMs, Zone-1,(R ph to E) At Nimapara End-No Tripping	Nimapara	00:11	0.007782962	
135	Nuapada	02-09-2020	19:15	20:00	5	132KV Sainitala-Khariar Line	Tripped from saintala	khariar, Nuapada, Trac, Kantabanji, Trac.	5	0.003608499	Section isolator insulation punchure
136	Nuapada	06-09-2020	19:11	19:21	10	132KV Sainitala-Khariar Line	Tripped From ACME	Tushra, Trac., O.F. BADMAL, khariar, Nuapada, Trac, Kantabanji, Trac.	10	0.010288671	Circuit Overloading
137	Nuapada	06-09-2020	01:43	01:52	9	132KV Sainitala-Khariar Line	Tripped from Sadeipali	Bolangir, Tushra, Trac., O.F. BADMAL, khariar, Nuapada, Trac, Kantabanji, Trac.	9	0.015146438	Circuit Overloading
138	Nuapada	10-09-2020	09:50	09:55	5	132KV Khariar-Nuapada Line	Tripped from Khariar	Nuapada, Trac.	5	0.00078603	Tripped on DP, zone-II operated on B-Phase E/F

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139	Nuapada	10-09-2020	11:13	11:17	4	132KV Kesinga-Khariar Line	Tripped from Kesinga	khariar, Nuapada, Trac, Kantabanji, Trac.	4	0.002886799	Tripped on Overcurrent B-phase due to Circuit overloading
140	Nuapada	12-09-2020	19:16	19:18	2	132KV Sainatala-Khariar Line	Tripped from Tushra	khariar, Nuapada, Trac, Kantabanji, Trac.	2	0.0014434	Due to Circuit Overloading.
141	Nuapada	13-09-2020	19:18	19:24	6	132KV Sainatala-Khariar Line	Tripped from Sainatala	khariar, Nuapada, Trac, Kantabanji, Trac.	6	0.004330199	Tripped on O/C B-Phase due to Ckt overloading
142	Nuapada	13-09-2020	21:44	21:50	6	132KV Sainatala-Khariar Line	Tripped from Sainatala	khariar, Nuapada, Trac, Kantabanji, Trac.	6	0.004330199	Tripped on O/C B-Phase due to Ckt overloading
143	Nuapada	14-09-2020	18:59	19:00	1	132KV Sainatala-Khariar Line	Tripped From Bolangir	khariar, Nuapada, Trac, Kantabanji, Trac.	1	0.0007217	
144	Nuapada	14-09-2020	20:13	20:19	6	132KV Sainatala-Khariar Line	Tripped from Sainatala	khariar, Nuapada, Trac, Kantabanji, Trac.	6	0.004330199	Tripped on O/C B-Phase due to Ckt overloading
145	Nuapada	16-09-2020	09:41	09:50	9	132KV Sainatala-Khariar Line	Tripped from Sainatala	khariar, Nuapada, Trac, Kantabanji, Trac.	9	0.006495298	Due to Circuit Overloading.
146	Nuapada	16-09-2020	19:00	19:03	3	132KV Sainatala-Khariar Line	Tripped from Bolangir	khariar, Nuapada, Trac, Kantabanji, Trac.	3	0.002165099	Due to Circuit Overloading.
147	Nuapada	16-09-2020	20:21	20:22	1	132KV Sainatala-Khariar Line	Tripped from Bolangir	khariar, Nuapada, Trac, Kantabanji, Trac.	1	0.0007217	Due to Circuit Overloading
148	Nuapada	16-09-2020	21:45	21:47	2	132KV Sainatala-Khariar Line	Tripped from Bolangir	khariar, Nuapada, Trac, Kantabanji, Trac.	2	0.0014434	Due to Circuit Overloading.
149	Nuapada	17-09-2020	23:32	23:34	2	132KV Sainatala-Khariar Line	Tripped from Sainatala	khariar, Nuapada, Trac, Kantabanji, Trac.	2	0.0014434	Due to Circuit Overloading.
150	Nuapada	19-09-2020	21:57	22:03	6	132KV Sainatala-Khariar Line	Tripped from Sainatala	khariar, Nuapada, Trac, Kantabanji, Trac.	6	0.004330199	Due to Circuit Overloading.
151	Nuapada	24-09-2020	18:43	18:52	9	132KV Sainatala-Khariar Line	Tripped from Sainatala	khariar, Nuapada, Trac, Kantabanji, Trac.	9	0.006495298	Tripped on E/F R-Phase
152	Nuapada	27-09-2020	10:03	10:08	5	132KV Sainatala-Khariar Line	Tripped from Sadeipali	khariar, Nuapada, Trac, Kantabanji, Trac.	5	0.003608499	LA burst on Sadeipali 220KV Ckt-II incoming bay
153	Nuapada	28-09-2020	10:55	10:58	3	132KV Sainatala-Khariar Line	Tripped from Bolangir	khariar, Nuapada, Trac, Kantabanji, Trac.	3	0.002165099	For replacement of LA on Sadeipali 220KV Ckt-II incoming bay, power supply resumed from kesinga.
154	Nuapada	28-09-2020	19:12	19:14	2	132KV Sainatala-Khariar Line	Tripped from Bolangir	khariar, Nuapada, Trac, Kantabanji, Trac.	2	0.0014434	Due to Circuit Overloading.
155	Nuapada	29-09-2020	20:00	20:02	2	132KV Sainatala-Khariar Line	Tripped from Bolangir	khariar, Nuapada, Trac, Kantabanji, Trac.	2	0.0014434	Due to Circuit Overloading.
157	Nuapatna	07-09-20	22:30	08-09-2020 12:25	775 minutes	20MVA Transformer1	E/F	Nuapatana	00:05	0.002221327	33KV surge arrester Y phase OF TRANSFORMER 1 BURSTED
158	Nuapatna	07-09-20	22:30	22:35	5 minutes	40MVA Transformer2	E/F				Due to 33kv surge arrester burst of transformer1.
159	Nuapatna	07-09-20	22:30	22:35	5 minutes	12.5MVA Transformer3	E/F				Due to 33kv surge arrester burst of transformer1.
163	Nuapatna	24/09/20	19:54	20:12	18 minutes	20MVA Transformer1,33KV side	R phase O/C				Fault
164	Nuapatna	24/09/20	19:54	20:12	18 minutes	40MVA Transformer2	No indication				Fault
165	Nuapatna	24/09/20	19:54	20:12	18 minutes	12.5MVA transformer 3	R phase O/C	Nuapatna	00:18	0.007996778	Fault, Grid interruption for 18 minutes due to trippings of 33KV sides of all transformers.
166	Palaspanga	01.09.2020	21:06hrs	21:09hrs	00:03	132KV RTSS-KJR Feeder	O/C (R PH), Ia=223.5A, Ib=179.3A, Ic=59.94A,Inn = 4.718A, Ind= 5.179A	Palaspanga Trac.	00:03	0.000334157	O/C TRIP
167	Palaspanga	04.09.2020	09:58hrs	10:01hrs	00:03	132KV RTSS-KJR Feeder	O/C (R PH), Ia=221.6A, Ib=180.9A, Ic=54.91A,Inn = 7.018A, Ind= 6.522A	Palaspanga Trac.	00:03	0.000334157	O/C TRIP
168	Palaspanga	04.09.2020	20:56hrs	20:58hrs	00:02	132KV RTSS-KJR Feeder	O/C (R PH), Ia=219.3A, Ib=187.4A, Ic=43.32A,Inn = 7.219A, Ind= 5.821A	Palaspanga Trac.	00:02	0.000222771	O/C TRIP
169	Palaspanga	04.09.2020	23:57hrs	23:59hrs	00:02	132KV RTSS-KJR Feeder	O/C (R PH), Ia=220.4A, Ib=194.6A, Ic=29.77A,Inn = 7.023A, Ind= 5.653A	Palaspanga Trac.	00:02	0.000222771	O/C TRIP
170	Palaspanga	05.09.2020	13:22hrs	13:24hrs	00:02	132KV RTSS-KJR Feeder	O/C (R PH), Ia=225.0A, Ib=187.1A, Ic=44.21A,Inn = 5.175A, Ind= 6.089A	Palaspanga Trac.	00:02	0.000222771	O/C TRIP
171	Palaspanga	09.09.2020	02:36hrs	02:39hrs	00:03	132KV RTSS-KJR Feeder	O/C (R PH), Ia=218.8A, Ib=155.3A, Ic=75.66A,Inn = 7.279A, Ind= 6.349A	Palaspanga Trac.	00:03	0.000334157	O/C TRIP
172	Palaspanga	09.09.2020	03:43hrs	03:45hrs	00:02	132KV RTSS-KJR Feeder	O/C (R PH), Ia=219.8A, Ib=181.6A, Ic=43.81A,Inn = 5.148A, Ind= 7.297A	Palaspanga Trac.	00:02	0.000222771	O/C TRIP

Sl. No.	Sub-Station	Date	From	To	Duration (Hr: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
173	Palaspanga	10.09.2020	10:58hrs	11:00hrs	00:02	132KV RTSS-KJR Feeder	O/C (R-ph & Y-ph), Ia=226.0A, Ib=221.3A, Ic=44.36A, Inm=6.76A, Ind=6.04A	Palaspanga Trac.	00:02	0.000222771	O/C TRIP
174	Palaspanga	10.09.2020	11:08hrs	11:11hrs	00:03	132KV RTSS-KJR Feeder	O/C (R PH), Ia=221.5A, Ib=189.0A, Ic=138.78A, Inm=7.08A, Ind=5.28A	Palaspanga Trac.	00:03	0.000334157	O/C TRIP
175	Palaspanga	10.09.2020	23:50hrs	23:52hrs	00:02	132KV RTSS-KJR Feeder	O/C (R PH), Ia=220.5A, Ib=167.6A, Ic=66.3A, Inm=7.020A, Ind=6.895A	Palaspanga Trac.	00:02	0.000222771	O/C TRIP
176	Palaspanga	12.09.2020	18:30hrs	18:33hrs	00:03	132KV RTSS-KJR Feeder	O/C (R PH), Ia=219.9A, Ib=158.7A, Ic=84.06A, Inm=6.92A, Ind=6.051A	Palaspanga Trac.	00:03	0.000334157	O/C TRIP
177	Palaspanga	14.09.2020	13:53hrs	13:54hrs	00:01	132KV RTSS-KJR Feeder	O/C (R PH), Ia=220.3A, Ib=189.2A, Ic=37.4A, Inm=7.032A, Ind=5.963A	Palaspanga Trac.	00:01	0.000111386	O/C TRIP
178	Palaspanga	14.09.2020	13:59hrs	14:00hrs	00:01	132KV RTSS-KJR Feeder	O/C (R PH), Ia=224.4A, Ib=217.9A, Ic=16.07A, Inm=6.480A, Ind=5.107A	Palaspanga Trac.	00:01	0.000111386	O/C TRIP
179	Palaspanga	15.09.2020	01:18hrs	01:21hrs	00:03	132KV RTSS-KJR Feeder	O/C (R PH), Ia=219.8A, Ib=179.5A, Ic=45.06A, Inm=6.815A, Ind=5.542A	Palaspanga Trac.	00:03	0.000334157	O/C TRIP
180	Palaspanga	18.09.2020	10:42hrs	11:14hrs	00:32	132KV JODA-Palaspanga Feeder	Joda end detail - Zone-I, Fault loop - L1-N, I1=7460.59A, I2=140.64A, I3=151.16A, In=7378.38A, Distance-1.08Km	Palaspanga, Keonjhar Trac., ESIL, OSISL	00:32	0.019141036	Source failure
181	Palaspanga	23.09.2020	21:22hrs	21:23hrs	00:01	132KV RTSS-KJR Feeder	O/C (R PH), Ia=220.3A, Ib=104.5A, Ic=137.4A, Inm=7.041A, Ind=5.614A	Palaspanga Trac.	00:01	0.000111386	O/C TRIP
182	Palaspanga	29.09.2020	01:22hrs	01:23hrs	00:01	132KV RTSS-KJR Feeder	O/C (R PH), Ia=220.2A, Ib=137.5A, Ic=94.75A, Inm=6.911A, Ind=5.988A	Palaspanga Trac.	00:01	0.000111386	O/C TRIP
183	Palaspanga	29.09.2020	01:32hrs	01:34hrs	00:02	132KV RTSS-KJR Feeder	O/C (R PH), Ia=219.1A, Ib=125.8A, Ic=113.8A, Inm=7.258A, Ind=6.418A	Palaspanga Trac.	00:02	0.000222771	O/C TRIP
184	Pattamundai	20.09.2020	09:25	09:41	16 min	132 KV Kendrapara Incomer	Tripped on Distance protection zone-1, B-phase showing distance of 14.5 km along with tripping of 132 KV Pattamundai-Olaver Ckt-I.	Pattamundai, Olaver, Chandbali	00:16	0.010178983	Delayed in charging for checking of Incomer bay and heavy thunderstorm.
185	Pattamundai	20.09.2020	09:25	09:54	29 min	132 KV Pattamundai-Olaver Ckt-I	Tripped on Distance protection zone-2, B-phase showing distance of 15.6 km due to heavy lightning.				delayed in charging for checking in the switch yard and heavy thunderstorm.
187	Rairakhhol	04.09.20	16:34 Hrs.	16:41 Hrs.	07 Mins	132 KV RAIKAKHOL - BOINDA FEEDER		RAIRAKHOL , Traction, BOINDA, Trac.	00:07	0.002814714	FEEDER TRIPPED AT ANGUL END ONLY. 132 KV P/S TO RAIKAKHOL GRID AVAILED FROM SAMBALPUR END AT 16:41 Hrs.
199	Rayagada	12.09.20	20:46	21:22	36	V 20 MVA TRF & 33 KV TRF 1 &	33 kv Trf 1&2 Tripped on E/F and 20 mva Trf tripped Master trip relav	Rayagada	00:36	0.00642186	33 kv main bus side isolator burst of 33 kv Gunpur Feeder
203	saintala	17.9.2020	23:17HRS	23:19HRS	00:02HRS	3KV BALANGIR-SAINTALA FEE	DUE TO OVERCURRENT AT LALTIKIRA GRID.	Tushra, Trac., O.F. BADMAL, khariar, Nuapada, Trac, Kantabunji, Trac.	00:02	0.002057734	
204	Salipur	17.9.20	06:01Hrs	13:47Hrs	07:46Hrs	132 KV OCL-Salipur Line	Insulators snapped at Loc.no.74(Y-phase)	salipur	00:45	0.019163497	Supply availed from Kendrapara end at 06:46H
205	Shamuka	18.09.20	11:56:00	12:15	00:19	132kv Shamuka-Puri Fdr	ON DP RELAY -NOT OPERATE. ON BACK UP RELAY- 50S1 G TRIP ,MASTER TRIP RLY-86.2 OPERATED ,MASTER TRIP SUPN.RLY 95-B OPERATED. Ia=0.26 KA,Ib=0.33 KA,Ic=0.09 KA; Vab=120.67KV,Vbc=118.84 KV,Vca=95.61 KV. Puri end: ON BACK UP RELAY-PICKED UP, ON DP RELAY- NOT OPERATED.	Puri, Samangara, Satasankha	00:19	0.011294584	
206	Sonepur	20-09-2020	13:30	13:32	02 mins	132 kv Balangir-sonepur line	AC Supply failed from New Belangir	Sonepur, Boudh	00:02	0.001150784	
207	Sonepur	23-09-2020	13:48	13:57	09 mins	132 kv Balangir-sonepur line	AC Supply failed from New Belangir	Sonepur, Boudh	00:09	0.005178527	
210	Sundargarh	23.09.2020	13:17	13:53	00:36:00	132 KV Badhipadar-Sundargarh Ckt-I	B/U:-E/F, Ir=0.05 KA, Iy=0.08 KA, Ib=0.03 KA	Sundargarh	00:36	0.013287257	
211	Sundargarh	13.09.2020	01:22	02:03	00:41:00	40 MVA TRF-I	O/C,R,Y,B-phase,Ir=1.08 KA, Iy=1.10 KA, Yb=1.09 KA	Sundargarh	00:41	0.015132709	
218	Tarkera	08.09.2020	01:10 Hrs	05:16 Hrs	4 Hr 06 min	132 KV Tarkera-Rourkela Ckt-I	EARTHFAULT YPH (64X)	Rourkela, Traction	03:06	0.1342145	CT Y Phase Jumper Snapped of Rkl Ckt I at rourkela Grid
219	Tarkera	08.09.2020	01:10 Hrs	11:05 Hrs	9 Hr 55 Min	132 KV Tarkera-Rourkela Ckt-II	EARTHFAULT YPH (64X)				CT Y Phase Jumper Snapped of Rkl Ckt II at rourkela Grid
220	Tarkera	08.09.2020	01:10 Hrs	09:09.2020 14.11 Hrs	3 Hr 06 min	132 KV Tarkera-Rourkela Ckt-III	EARTHFAULT YPH (64X)				CT Y Phase Jumper Snapped of Rkl Ckt III at rourkela Grid
224	Tarkera	25.09.2020	20:19 hr	25.09.2020 to 21.13 Hrs	54 Min	132 kv Tarkera Rourkela Ckt II	O/C- R Phase				
225	Tarkera	25.09.2020	20:19 hr	25.09.2020 to 23.47 Hrs	3 Hr 28 Min	132 kv Tarkera Rourkela Ckt I	O/C- R Phase	Rourkela, Traction	00:54	0.0389655	R Phase Jumper from Breaker to Isolator snapped and 132KV Tarkera-Rourkela Ckt-III was under S/D.
240	Therubali	23.09.20	18:35	18:45	00:10	132 KV Therubali- Muniguda-Vedanta-Kesinga ckt	ABCT, IL1= 534A, IL2=487 A, IL3=453 at Therubali end.	Muniguda, VAL Lanjigarh, Kesinga, Traction, Bhawanipatna, Junagarh.	00:10	0.012204141	
244	TIRTOL	01.09.2020	09:56	12:09	02:13	40 MVA TRF-I	O/C	Tirtol	02:13	0.019091134	O/C
245	TIRTOL	01.09.2020	09:56	13:32	03:36	40 MVA TRF-II	O/C				O/C
246	TIRTOL	02.09.2020	11:50	12:05	00:15	132KV TIRTOL-PARADEEP FDR	E/F	Tirtol	00:15	0.002153135	E/F
247	TIRTOL	02.09.2020	11:50	12:29	00:39	132KV TIRTOL-JAGATSINGHPUR FDR	O/C(Y-Ph.),ZONE -I,IB=2.087 KA, DIST=12.08 KM				O/C
248	TIRTOL	02.09.2020	12:29	17:53	05:24	132KV TIRTOL-JAGATSINGHPUR FDR	O/C(R-Ph.),ZONE -I,IA=2.341 KA, IB=2.343 KA				O/C
249	TIRTOL	09.09.2020	15:43	17:53	02:10	132KV TIRTOL-PARADEEP FDR		Tirtol	00:14	0.002009593	P/S availed from J.singpur after 14 mins.

STATEMENT OF UFR OPERATION IN GRIDCO SYSTEM DURING THE MONTH OF SEPTEMBER-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 SEPTEMBER - 2020		
Sl. No	Date	Details of event
1	01.09.2020	At 20:56 Hrs, 40 MVA , 132/33 kV Power Transformer -I charged at 132/33 kV Unit-8, GIS.
2	02.09.2020	At 17:57 Hrs, 132 kV Marsaghai - Kendrapara RTSS ckt -II charged.
3	01.09.2020	At 20:57 Hrs, 132 kV side U/G cable of Auto Transformer - I & II charged from 132 kV Switchyard of Grid S/S, Kesinga .
4	02.09.2020	At 18:04 Hrs, 160 MVA, 220/132 kV Auto Transformer - II charged at Grid S/S, Kesinga.
5	02.09.2020	At 18:21 Hrs, 220 kV Bus -I & Bus -II charged at Grid S/S, Kesinga.
6	21.09.2020	At 16:35, 33 kV Bargarh(New)- Aditya Birla Solar feeder -I charged. At 16:37 Hrs, 33 kV Bargarh(New)- Aditya Birla Solar feeder -II charged.
7	30.09.2020	At 18:15, 132 kV Bhalumaska RTSS feeder bay charged at Grid S/S Therubali.