

SYSTEM PERFORMANCE REPORT



MAY'2020

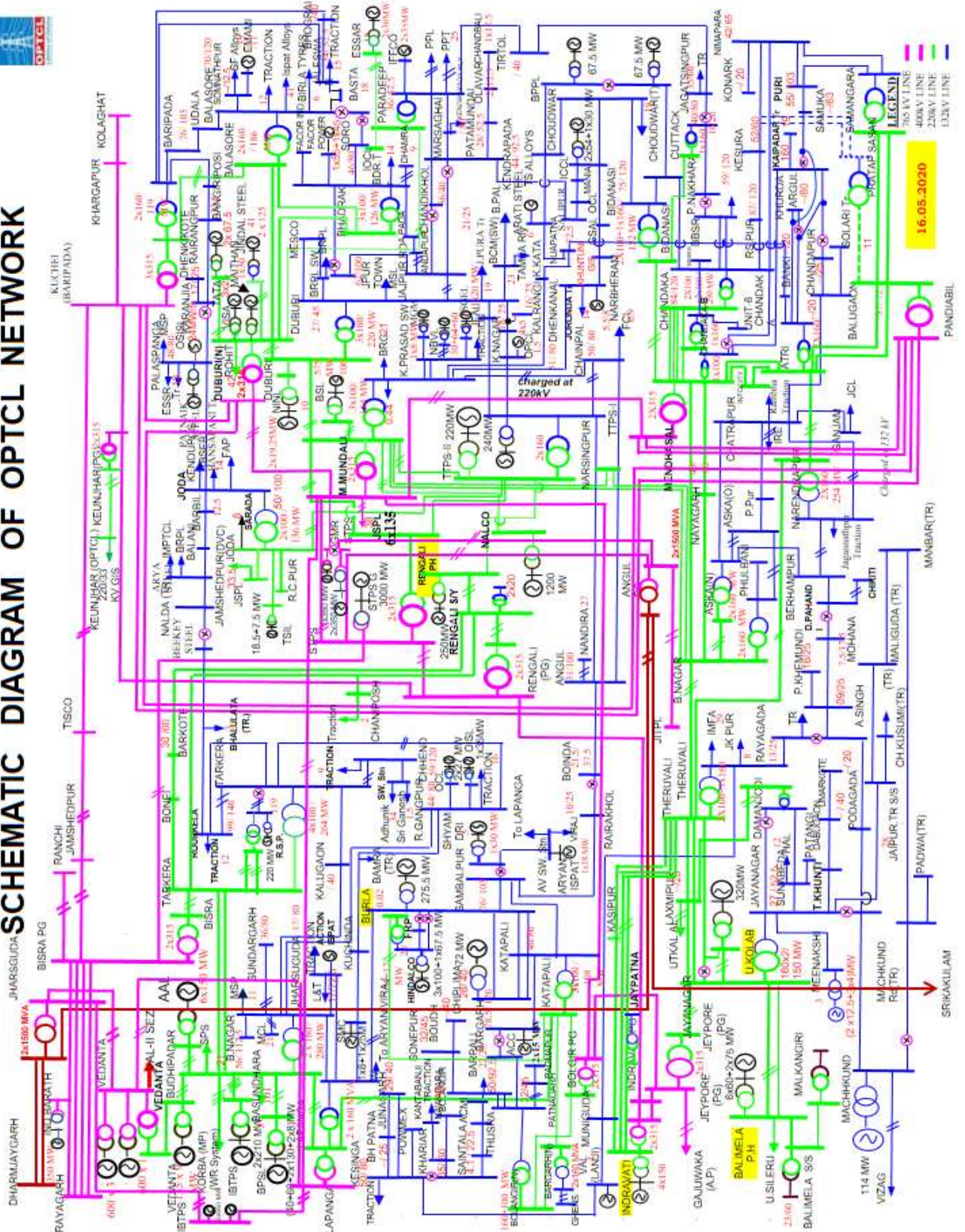
,SLDC, OPTCL
BHUBANESWAR – 17

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SCHEMATIC DIAGRAM OF OPTCL NETWORK



SUMMARY REPORT FOR MAY- 2020

A. Voltage Profile

<u>220 KV</u>			<u>Date & Time</u>	<u>Location</u>	
	Maxm.	-	244.62 kV	01.05.2020 15:45Hrs	Bhanjanagar
			>240 KV		Atri, Bhadrak, Bhanjanagar, Bidanasi, Cuttack, Jayanagar, Laxmipur, Mendhasal, Narendrapur, Nayagarh, Paradeep.
	Minm.	-	197.40 kV	16.05.2020 15:00 Hrs	Bidanasi
			< 200 KV		Bidanasi
<u>132 KV</u>	Maxm.	-	145.38 kV	01.05.2020 15:45 Hrs	Aska
			>145 KV		Aska,Chainpal, Narendrapur
	Minm.	-	115.64 kV	23.05.2020 2:45 Hrs	Puri
			< 120 KV		Puri

B. Frequency Profile

		<u>Date & Time</u>
Maxm. -	50.29 Hz	28.05.20 19:01 Hrs.
Minm. -	49.64 Hz	28.05.20 17:29 Hrs.
Average -	50.01 Hz	
% of time the freq. is within 49.9 Hz to 50.05 Hz (IEGC band)	-	74.78%
% of time the freq. is > 50.05 HZ	-	21.33%
% of time the freq. is ≤49.9 HZ	-	3.89%
% of time the freq. is < 48.5 HZ	-	0.00%

C. Demand Profile

Peak System Demand	4082.46 MW	At 20:00 Hrs on 26.05.20
Minimum System Demand	1995.32 MW	At 13:00 Hrs on 20.05.20
Average System Demand	3236 MW	

D. Major events

<u>Sl. No</u>	<u>Date</u>	<u>Details of event</u>
1	06.05.20	At 13:25 Hrs, 132 kV Marshaghai - Kendrapada(RTS) traction feeder charged.
2	30.05.20	At 12:50Hrs, 220/132/33 kV Goda Grid S/S charged by LILO arrangement in 220 kV Meramundali - Duburi ckt -I along with 2 x160 MVA Auto Transformers & 1x40

GENERATION CAPACITY

STATE SECTOR GENERATION

All Figures in MW

SL.NO.	NAME OF POWER STATION	INSTALLED CAPACITY		FIRM POWER (MW)
1	O.H.P.C.			
	HIRAKUD POWER STATION			
	(a)BURLA	2x49.5 = 99 2x32 = 64 3x37.5 = 112.5	275.5	134
	(b)CHIPLIMA	3x24	72	
	BALIMELA POWER HOUSE	6x60 + 2x75	510	135
	RENGALI POWER HOUSE	5x50	250	60
	UPPER KOLAB POWER HOUSE	4x80	320	95
	INDRAVATI POWER HOUSE	4x150	600	224
	MACHHKUND POWER HOUSE (Orissa Share 30%, Purchase upto 20% extra)	3x17 = 51.00 3x23= 69	36	30
	TOTAL HYDRO (A)	2063.5		
2	N.T.P.C.(TAKEN OVER)			
	TTPS STAGE-I	4x60 = 240	160.2 (Auxilliary 10.5 %, Availability 80%)	160.2 (Auxilliary 10.5 %, Availability 80%)
	TTPS STAGE - II	2x110 = 220	146.85 (Auxilliary 10.5 %, Availability 80%)	146.85 (Auxilliary 10.5 %, Availability 80%)
	TOTAL TTPS	460		
3	O.P.G.C.			
	IB TPS	2x210 = 420	342.09 (Auxilliary 9.5 %, Availability 90%)	342.09 (Auxilliary 9.5 %, Availability 90%)
	IB TPS-Stage-II	2x660 = 1320	(75) 833.085 (Share 75%, Auxilliary 6.5 %, Availability 90%)	833.085 (Share 75%, Auxilliary 6.5 %, Availability 90%)
	TOTAL THERMAL (B)	2200		

CENTRAL SECTOR GENERATION

SL.NO.	NAME OF POWER STATION	INSTALLED CAPACITY	OPTCL'S SHARE OF INSTALLED CAPACITY ON REALTIME BASIS.		AUX. CONS.	% AGE AVAILABILITY (excluding UA)
			% age	MW	%	%
1	CHUKHA (BHUTAN)	4 x 84 = 336 (Considering 270 MW, total availability)	15.19	41.00		85
2	TALA HEP (BHUTAN)	6 x 170 = 1020	4.25	43.40		
3	FARAKKA (WEST BENGAL)	3 x 200 = 600 2 x 500 = 1000 1 x 500 = 500	13.63 16.62	218.08 83.10	7.5	77.91 85
4	KAHALGAON (BIHAR)	4 x 210 = 840 3 x 500 = 1500	15.24 2.05	132.47 39.30	9 9	53.98 62.11
5	TSTPP, KANIHA (ORISSA)	2 x 500 = 1000 4 x 500 = 2000	31.8 10	318.00 200.00	7.5 7.5	85
6	TISTA HEP (SIKKIM)	3 x 170 = 510	20.59	105.00		85
7	MANGDECHU HEP, BHUTAN	4x180	9.33+1.65	90.87		
8	MTPS (Mijafarpur) (BIHAR)	2x195	8.53	33.27		
9	DARLIPALI STPS	1X800	58.82	470.56		
	TOTAL ISGS			1775.05		

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

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

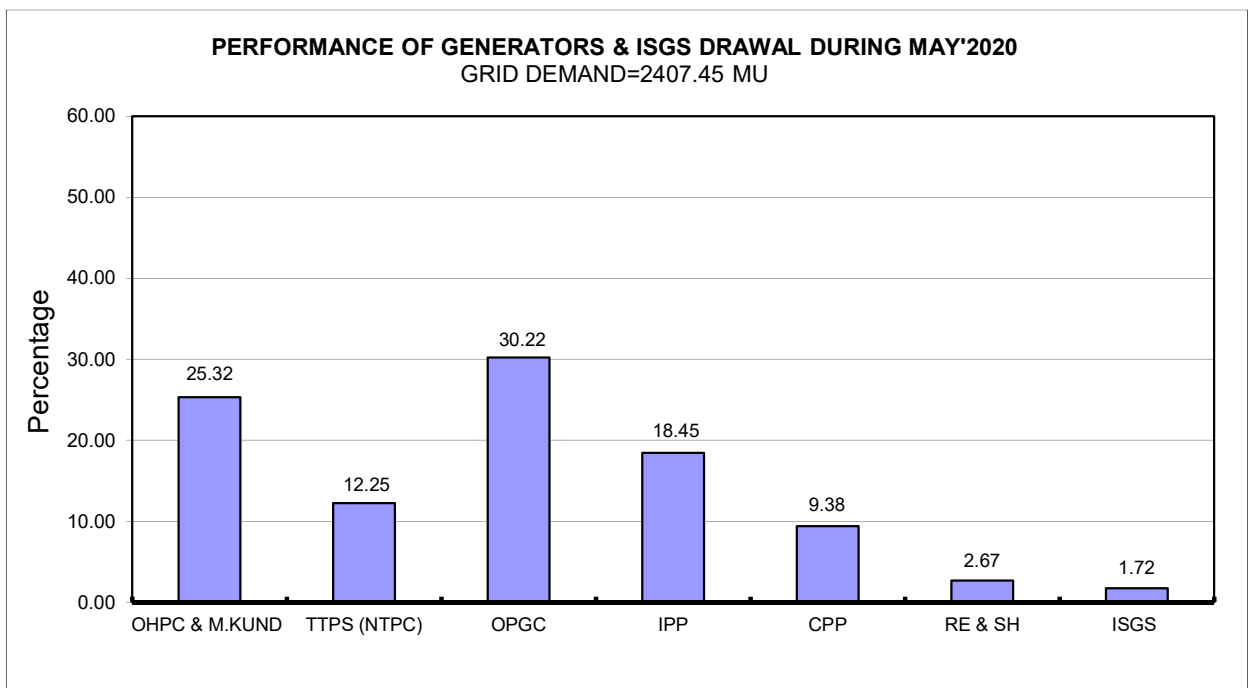
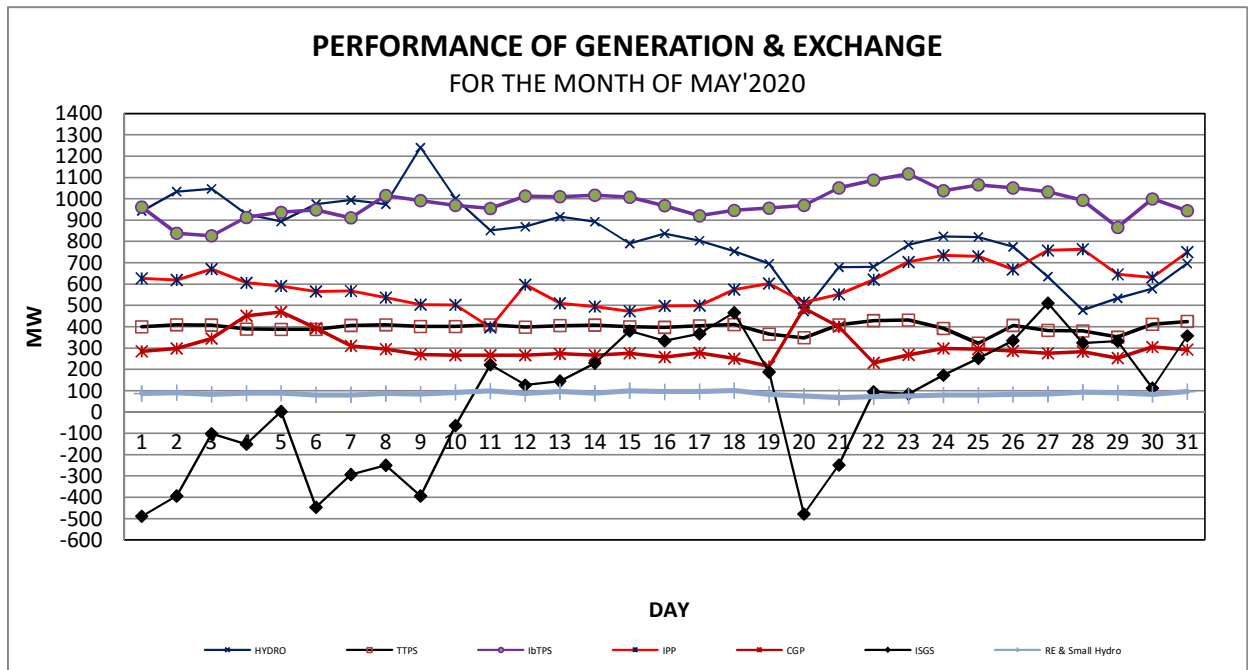
CAPACITY OF IPP, CPP, SMALL HYDRO & RENEWABLE

SL.No	POWER STATION	INSTALLED CAPACITY	TOTAL	TYPE	VOLTAGE LEVEL
IPP & SMALL HYDRO					
1	MEENAKSHI POWER LTD.	3 X 4 + 2 X 12.5	37	SMALL HYDRO	132 kV
2	ORISSA POWER CONSORTIUM LTD.	4 X 5	20	SMALL HYDRO	132 kV
3	VEDANTA LTD., JHARSUGUDA(IPP)	1 X 600	600	THERMAL	400kV
4	GMR KAMALANGA ENERGY LTD.	3 X 350	1050	THERMAL	400kV
5	JITPL	2 X 600	1200	THERMAL	400kV
6	NBVL (MERAMUNDALI)	1 X 60=60	60	THERMAL	132 kV
	TOTAL		2967		

CPP					
1	AARATI STEEL GHANTIKHAL	1 X 40 + 1 X 50	90	THERMAL	132 kV
2	ACC. BARGARH	1 X 30	30	THERMAL	132 kV
3	ACTION ISPAT & POWER PVT. LTD.	1 X 12 + 1 X 25 + 1 X 43	80	THERMAL	132 kV
4	ARYAN ISPAT & POWER PVT. LTD.	1 X 18	18	THERMAL	132 kV
5	ADITYA ALUMINIUM Ltd	6X 150	900	THERMAL	220 kV
6	BHUBANESWAR POWER PVT. LTD.	2 X 67.5	135	THERMAL	132 kV
7	BHUSAN STEEL LTD.,MERAMUNDALI	1 X 33+1 X 77+ 2 X 150+2 X 165	740	THERMAL	220 kV
8	BHUSAN POWER & STEEL LTD,	1X60+1X40+3X130+ 2 X 8	506	THERMAL	220 kV
9	EMAMI PAPER MILLS.	1 X 15 + 1 X 5	20	THERMAL	132 kV
10	ESSAR POWER LTD	2x30	60	THERMAL	220 kV
10	FACOR POWER	1X 45	45	THERMAL	132 kV
11	HPCL(HINDALCO),(HIRAKUD)	1 X 67.5 + 3 X 100	367.5	THERMAL	132 kV
12	IMFA(CHOUDWAR)	2 X 54 + 1 X 30 + 2 X 60	258	THERMAL	132 kV
13	IFFCO (PARADEEP)	2 X 55	110	THERMAL	132 kV
14	JINDAL STAINLESS LTD., DUBURI	2 X 125 + 1 X 13	263	THERMAL	220 kV
15	JINDAL STEEL & POWER LTD., ANGUL	6 X 135	810	THERMAL	220 kV
16	NINL (DUBURI)	2 X 19.25 + 1 X 24	62.5	THERMAL	220 kV
17	MAHAVIR FERRO ALLOYS PVT. LTD.	1 X 12	12	THERMAL	33 kV
18	MAITHAN ISPAT NIGAM LTD., Jajpur Rd	1 X 30	30	THERMAL	220 kV
19	MSP METTALLICS LTD.	1 X 25	25	THERMAL	132 kV
20	NALCO(ANGUL)	10 X 120	1200	THERMAL	220 kV
21	NALCO(DAMANJODI)	18.5 X 4	74	THERMAL	132 kV
22	NARBHERAM POWER & STEEL PVT.	1 X 8	8	THERMAL	132 kV
23	NBVL (MERAMUNDALI)	1 X 30 + 1X 64	94	THERMAL	132 kV
24	OCL INDIA LTD., RAJGANGPUR	2 X 27	54	THERMAL	132 kV
25	OISL, RAJGANGPUR	1 X 35	35	THERMAL	132 kV
25	ORISSA SPONGE IRON & STEEL LTD.	1 X 24	24	THERMAL	132 kV
26	PATTANAIK STEEL, (KEONJHAR)	1 X 15	15	THERMAL	33 kV
27	RATHI STEEL & POWER LTD. (Katapalli)	1 X 20	20	THERMAL	33 kV
28	RSP(ROURKELA)	2 X 60 + 4 X 25	220	THERMAL	220 kV
29	SEVEN STAR STEELS LTD.	1 X 8	8	THERMAL	33 kV
30	SHYAM DRI, (PANDOLI, SAMBALPUR)	1 X 30	30	THERMAL	132 kV
31	SMC POWER GENERATION LTD.	1 X 8 + 1 X 25	33	THERMAL	132 kV
32	SREE GANESH	1 X 32	32	THERMAL	132 kV
33	TATA SPONGE IRON (JODA)	1 X 18.5 + 1 X 7.5	26	THERMAL	220 kV
34	TATA POWER & STEEL, (K NAGAR)	2 X 67.5	135	THERMAL	220 kV
35	UTKAL ALUMINA, LAXMIPUR	3x30	90	THERMAL	220 kV
36	VEDANTA LTD.(SEZ),JHARSUGUDA	3 X 600	1800	THERMAL	400 kV
37	VEDANTA (JHARSUGUDA))	9 X 135	1215	THERMAL	220 kV
38	VEDANTA (LANJIGARH)	3 X 30	90	THERMAL	132 kV
39	VISA STEEL LTD., (NEW DUBURI)	3 X 25	75	THERMAL	220 kV
40	YAZDANI STEEL & POWER.	1 X 10	10	THERMAL	33 kV
		TOTAL	9850		

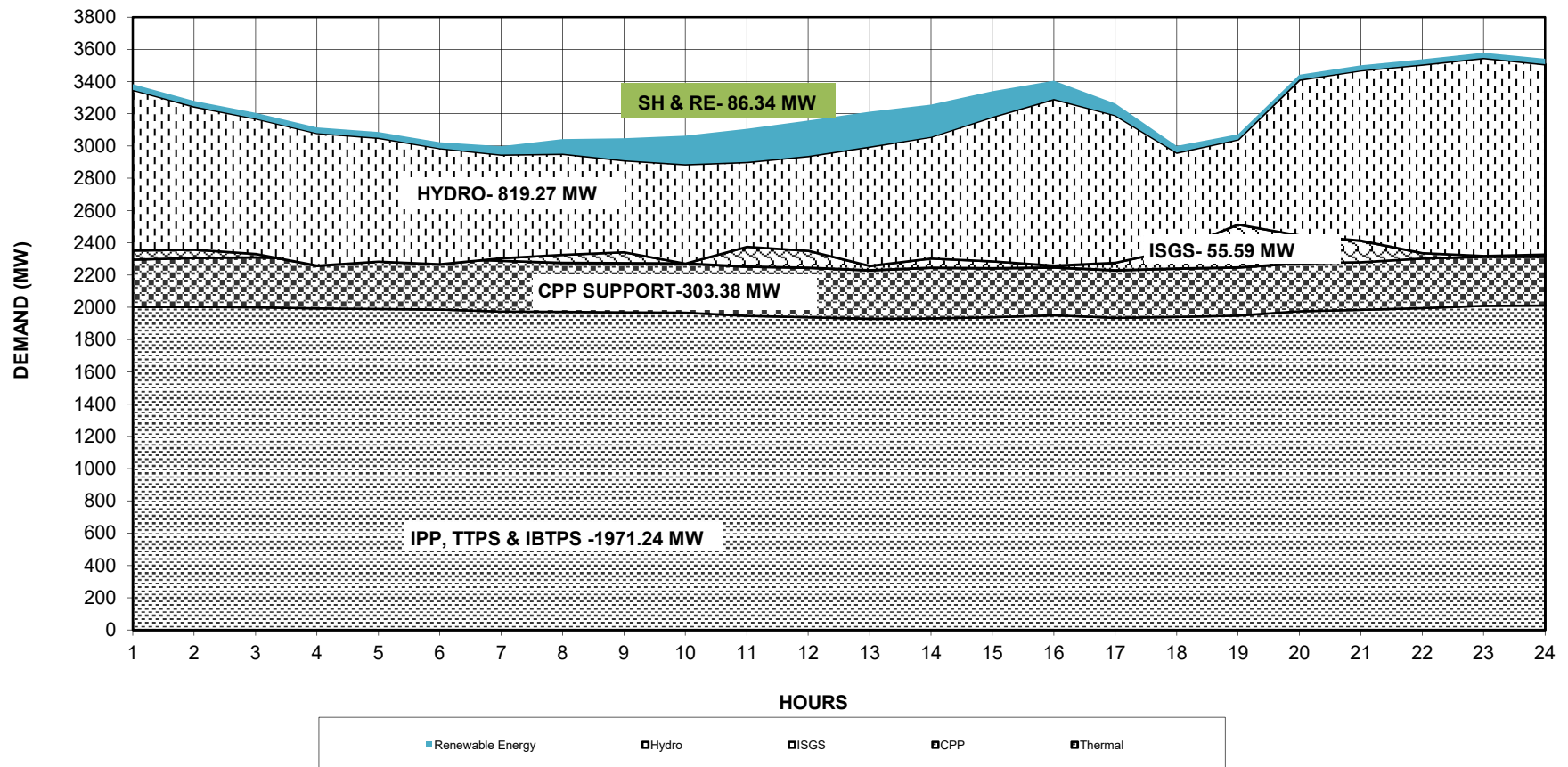
RENEWABLE PROJECTS

Sl.No	POWER STATION	INSTALLED CAPACITY	TOTAL	TYPE		CONNECTIVITY VOLTAGE
1	ABACUS HOLDINGS PVT. LTD, SONEPUR	1 MW	1	SOLAR		11 kV
2	AFTAAB SOLAR PVT. LTD. ,BOLANGIR (N)	5 MW	5	SOLAR		33 kV
3	ALEX GREEN ENERGY PVT LTD. PATNAGARH	5 MW	5	SOLAR		33 kV
4	JAY IRON & STEEL, BAMARA	1 MW	1	SOLAR		11 kV
5	J.K. PAPER LTD., THERUVALI	25 MW	25	BIOMASS		132 kV
6	M.G.M. GREEN ENERGY., CHANDPUR	1 MW	1	SOLAR		11 kV
7	MOLISATI VINIMAY PVT. LTD. BARKOTE	1 MW	1	SOLAR		11 kV
8	OCL SOLAR, SALIPUR	2.5 mw	2.5	SOLAR	SELF	132 kV
9	VIVACITY R.E PVT. LTD, CHANDPUR	1 MW	1	SOLAR		11 kV
10	RAAJRATNA ENERGY PVT. LTD. BOLANGIR (N)	1 MW	1	SOLAR		11 kV
11	S. N. MOHANTY, BARANGA, CHANDAKA	1 MW	1	SOLAR		11 kV
12	SHALIVAHAN GREEN ENERGY LTD.	20 MW	20	BIOMASS		132 kV
13	MAHAVIR FERRO ALLOYS (SOLAR), BANEI	1 MW	1	SOLAR		33 kV
14	MCL, BURLA, KATAPALI	2 MW	2	SOLAR	SELF	11 kV
15	ACME SOLAR, MURSING, BOLANGIR-SAINTALA	25 MW	25	SOLAR		132 kV
16	GEDCOL, MANMUNDA, SONEPUR	20 MW	20	SOLAR		33 kV
17	JYOTI SOLAR SOLUTIONS(P) LTD	10 MW	10	SOLAR		33 kV
18	SADIPALI SOLAR	20 MW	20	SOLAR		33 kV
19	BEL, SAINTALA	7.5 MW	7.5	SOLAR		132 kV
20	DAKSHIN ODISHA URGAL PVT. LTD, PADMAPUR	40 MW	40	SOLAR		132 kV
21	VENTO POWER& ENERGY LTD, Dendugoda, KESINGA	2x40 MW	80	SOLAR		132 kV
22	VENTO POWER& ENERGY LTD, Tusara	2x40 MW	80	SOLAR		132 kV
23	VENTO POWER& ENERGY LTD, Tentulikhunti	1x40 MW	40	SOLAR		132 kV
24	IMFA SOLAR, Theruvali	4.5	4.5	SOLAR	SELF	33 kV
25	ADITYA BIRLA RENEWABLES LTD, BOUDH	25 MW	25	SOLAR		
		TOTAL	419.5			
	GRAND TOTAL (SMALL HYDRO,IPP & CPP)		19275.05			

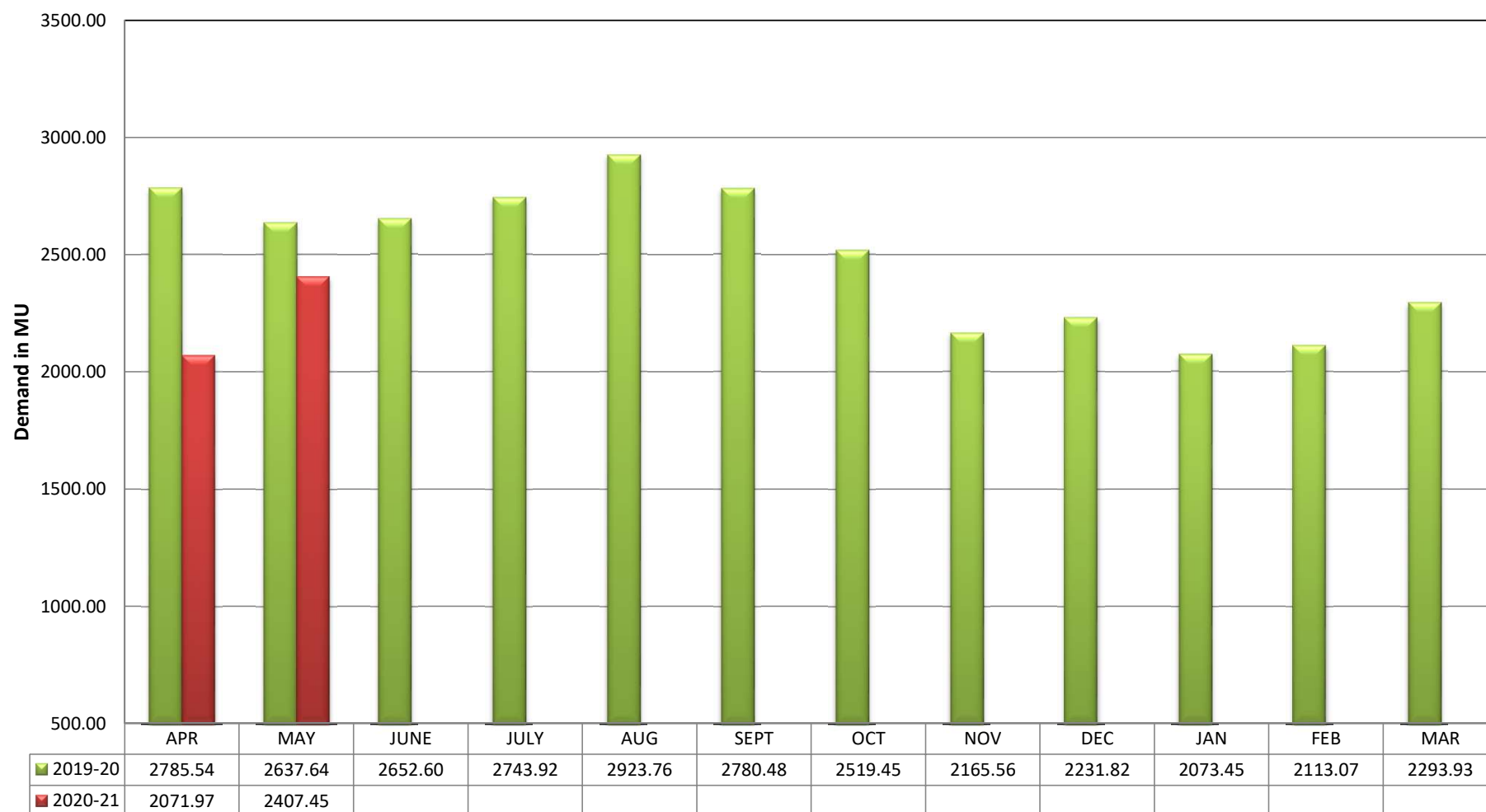


AVERAGE GRID DEMAND [HOURLY] FOR THE MONTH OF MAY'2020

Average Demand=3235.82 MW



COMPARISON SYSTEM DEMAND WITH PREVIOUS FINANCIAL YEAR



MONTHLY GENERATION & DEMAND REPORT FOR THE STATE OF ODISHA IN THE MONTH OF MAY- 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	28.474	17.208	19.563	0.000	0.000	0.000	0.000	65.245	87.695	0.242	102.00	1	1.00
2	Chipilima	11.846	11.611	3.634	-	-	-	-	-	27.091	36.413	0.106	51.31	16	12.00
4	Balimela	0.000	0.000	30.758	0.000	32.641	33.949	43.264	43.446	184.058	247.390	0.670	302.59	29	15.00
5	Rengali	14.786	13.914	12.963	15.397	22.629	-	-	-	79.689	107.109	1.090	214.39	2	21.00
6	Upper Kolab	33.841	26.030	0.000	32.178	-	-	-	-	92.049	123.722	0.121	231.28	1	1.00
7	Upper Indravati	34.094	47.235	32.463	37.348	-	-	-	-	151.140	203.144	4.470	603.61	9	4.00
8	Total Hydro (OHPC)	-	-	-	-	-	-	-	-	599.272	805.473				
9	Machhakund (Orissa drawal)	-	-	-	-	-	-	-	-	24.205	32.534		49.74	21	21.00
10	Total Hydro	-	-	-	-	-	-	-	-	623.477	838.007		1509.07	9	22.00
11	TTPS-I	44.347	43.692	43.844	42.233	-	-	-	-	174.116	234.027		221.63	7	11.00
12	TTPS-II	70.727	79.463	-	-	-	-	-	-	150.190	201.868		215.21	24	11.00
13	Total TTPS	-	-	-	-	-	-	-	-	324.306	435.895	36.093	435.21	30	20.00
14	IBTPS	113.31	110.942	-	-	-	-	-	-	224.249	301.410	27.094	1149.93	23.00	12.00
15	IBTPS-II	-	-	270.160	313.977	-	-	-	-	584.137	785.130	36.509			
16	Total IBTPS	-	-	-	-	-	-	-	-	808.386	1086.540				
17	IPPs & CGPs Support	-	-	-	-	-	-	-	-	647.206	869.900				
18	Total Thermal & IPPs & CGP	-	-	-	-	-	-	-	-	1779.898	2392.335		2594.04	23	14.00
19	Injection by Renewable projects	50.5726	-	-	-	-	-	-	-	50.573	67.974				
20	Total self generation	-	-	-	-	-	-	-	-	2453.947	3298.316	106.395	3978.02	23	23.00

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

(B) IPPs / CGPs injection :-

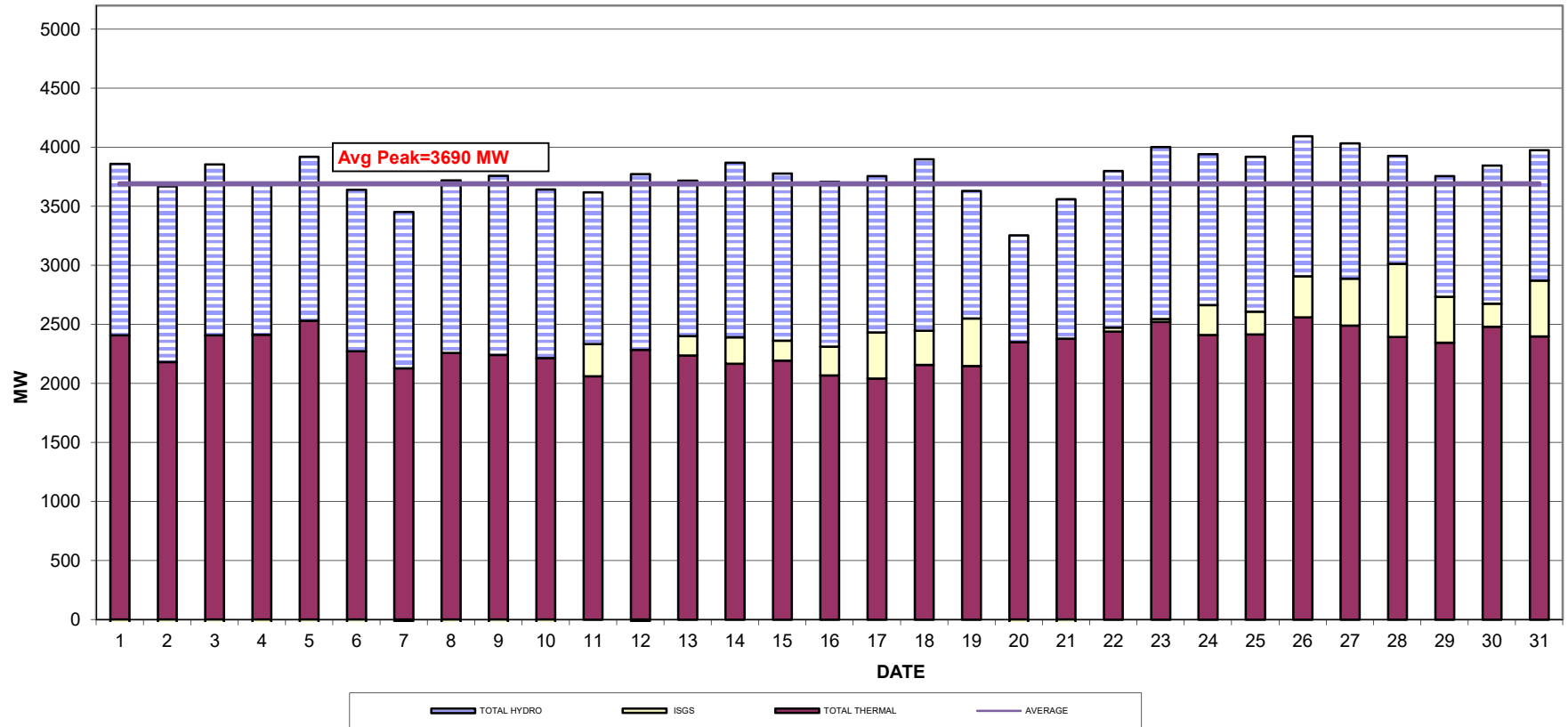
(C)EXCHANGE OF ENERGY WITH CENTRAL SECTOR

SL No.	Name of IPP / CGPs	Injection in (MU)	Average (MW)	Maximum Injection (MW)	DATE	TIME (Hr.)	Name of the Tie line	Net MU	Avg MW	Maximum Import (MW)	DATE	TIME	Maximum Export (MW)	DATE	TIME
1	Aarti Steel Ltd, ghanthikhal	1.781	2.394	18.95	25	10.00	132KV JODA-KENDUPOSI	-11.92	-16.02				-30.26	14	9.00
2	ACC	0.000	0.000				132KV KALABADIA-BANGIRIPOSI	28.49	38.29	68.72	26	23.00	-51.81	21	21.00
3	Action Ispat	0.000	0.000				132KV KALABADIA-BARIPADA	18.63	25.04	40.54	7	23.00			
4	Aryan Ispat,	0.255	0.343				132 KV BHOGRAI-KUCHEI	6.67	8.97	17.94	27	15.00			
5	BPPL	73.402	20.967	125.36	30	16.00	132 KV JALESWAR-KUCHEI	9.16	12.31	26.58	27	15.00			
6	BPSL, Jharsuguda	15.600	20.967	68.93	7	14.00	220KV JODA-JAMSHEDPUR	-21.53	-28.94	39.52	11	2.00	-105.20	17	20.00
7	BSL, Meramundali	6.538	8.787	42.83	31	19.00	220KV JODA-RAMCHANDRAPUR	36.97	49.69	116.86	28	5.00	-23.36	20	4.00
8	GMR Kamalanga Energy Ltd (IPP)	154.774	208.030				220KV RENGALI SV- RENGALI P.G-I	9.13	12.28	59.12	24	20.00	-49.87	10	22.00
9	HINDALCO, Hirakud	1.002	1.347				220KV RENGALI SV- RENGALI P.G-II	10.98	14.76	74.35	24	20.00	-63.17	10	22.00
10	IFFCO, Paradeep	0.0002	0.000				220KV JAYANAGAR JEYPORE PG-I	-45.83	-61.60	13.70	4	12.00	-119.02	31	16.00
11	IMFA, Choudwar	8.005	10.759	48.51	3	6.00	220KV JAYANAGAR JEYPORE PG-II	-47.84	-64.30	12.67	4	12.00	-123.92	31	16.00
12	JINDAL, New Duburi	3.220	4.328	29.70	11	24.00	220KV RENGALI P.H-KANIHA	-31.51	-42.35	29.56	20	15.00	-110.64	3	24.00
13	JSPL, Angul	39.071	52.515	81.44	31	18.00	220KV TTPS-KANIHA	34.59	46.49	115.50	24	21.00	-24.09	4	12.00
14	Mahavir Ferro Alloys	0.000	0.000				220KV MERAMUNDALI-KANIHA-I	43.22	58.10	103.12	31	23.00			
15	Malihan Ispat Ltd.	0.000	0.000				220KV MERAMUNDALI-KANIHA-II	44.07	59.24	103.38	31	23.00			
16	Meenakshi Power Ltd. (SH)	13.644	18.339				220KV TARAKARA-BISRA-I & II	70.62	94.91	241.34	28	5.00	-29.50	30	3.00
17	MSP, Jharsuguda	0.000	0.000				220 KV KALABADIA-BALASORE-I&II	111.47	149.83	247.12	30	23.00	-22.46	20	16.00
18	NALCO, Angul	10.54	14.162	113.11	6	16.00	220KV KATAPALI- BOLANGIR(PG)	0.77	1.04	1.65	30	10.00			
19	Narberham	0.068	0.091				220KV SADEIPALI - BOLANGIR(PG)	60.56	81.40	203.21	22	17.00	-55.60	4	12.00
20	NBVL, Kharag Prasad	3.715	4.993	43.53	24	23.00	220KV BUDHIPADAR-KORBA-I	-45.63	-61.34	2.14	17	19.00	-152.77	6	7.00
21	NINL, Duburi	0.000	0.000				220KV BUDHIPADAR-KORBA-II	37.59	50.52	106.30	11	19.00	-152.77	6	7.00
22	OCL	0.113	0.151				220KV BUDHIPADAR-KORBA-III	34.24	46.02	96.56	11	19.00	-10.71	6	7.00
23	OPCL, Samal (SH)	7.584	10.194				220KV ATRI- PANDIVIL	132.28	177.80	273.53	24	7.00	-12.39	6	7.00
24	PSAL, Keonjhar	0.000	0.000				220KVSAMANGHARA- PANDIVIL	0.00	0.00	0.00	1	1.00			
25	RSP, Rourkela	0.006	0.009				220KV KEONJHAR 220KV KEONJHAR	0.73	0.98	7.20	14	23.00			
26	Shree Ganesh	0.543	0.730				220KV KEONJHAR 220KV KEONJHAR	0.48	0.64	7.21	14	18.00			
27	Shyam Metalics	0.331	0.445				400KV INDRAVATI P.H-P.G	-38.52	-51.78	106.57	28	7.00	-274.13	2	16.00
28	SMC Power	0.021	0.029				400KV MERAMUNDALI-KANIHA	254.65	342.27	799.37	31	23.00	-297.18	4	9.00
29	TSPL	10.181	13.684				400KV MERAMUNDALI-ANGUL-I&II	-102.59	-137.89	35.95	6	13.00	-330.55	24	7.00
31	Vedanta Ltd. (IPP-Unit-2)	271.494	364.911				400KV MENDHASAL - PANDIABIL-I &II	-160.92	-216.29	20.77	28	9.00	-414.45	17	20.00
31	Vedanta, Jharsuguda	19.128	25.709				400KV DUBURI - PANDIABIL	51.87	69.72	181.93	4	20.00	-40.11	28	11.00
32	Vedanta, Lanjigarh	0.639	0.859				400KV DUBURI - BARIPADA	51.26	68.90	239.01	28	5.00	-86.94	20	4.00
33	VISA Steel, New-Duburi	0.745	1.001	13.54	21	20.00	400KV VEDANTA-JHARSUGUDA Ckt-I	-100.71	-135.36	41.53	4	12.00	-298.73	2	6.00
34	Yazdani Steel & Power Ltd., J.J Rd	0.000	0.000				400KV VEDANTA-JHARSUGUDA Ckt-II	-100.62	-135.25	41.88	4	12.00	-299.18	2	6.00
35	Vedanta Ltd. (3*600)	4.810	6.465				400KV OPGC-JHARS PG - I	-150.68	-202.53				-338.85	1	6.00
							400KV OPGC-JHARS PG - II	-150.49	-202.27				-338.41	1	6.00
	Total support from CPPs	647.206	869.900				Net ISGS	39.62	53.25	823.41	26	20.00	-338.85	1.00	6.00

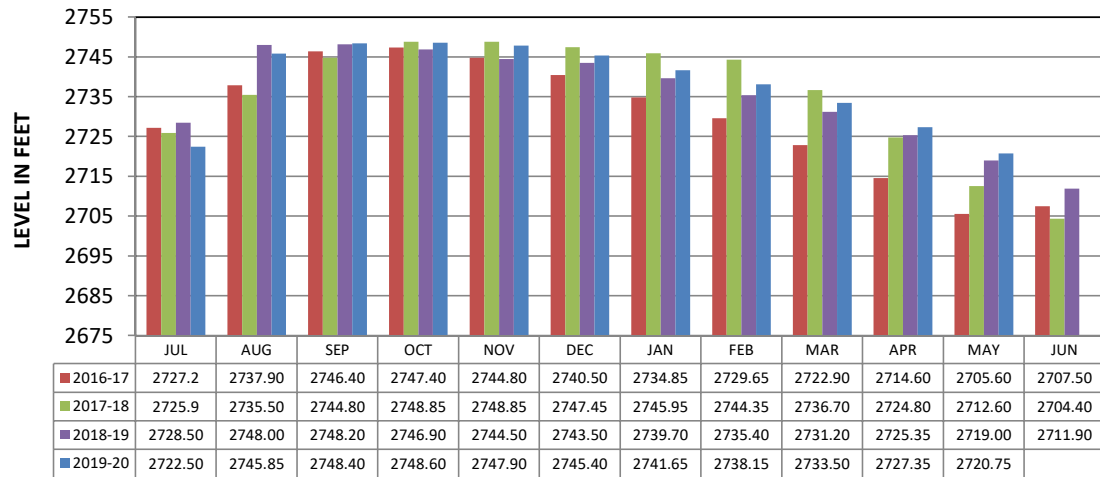
ABSTRACT OF SYSTEM DEMAND

Particulars	Energy MU	Average MW	Peak MW	DATE	TIME
Total gross generation(Including CPP+IPP)	2453.947	3408.260	3746.55	26	23.00
Power Station Auxiliary consumption	106.395	147.771			
Total net generation(Including CPP+IPP)	2347.552	3260.489	3735.42	26	23.00
Net ISGS	39.619	55.026	347.04	26	23.00
System Demand	2387.171	3315.516	4082.46	26	23.00
Trading					
Average of Peak Demand (MW)		3693.016			
Average of Minimum Demand (MW)		2798.746			

DAILY GENERATION SHARING DURING PEAK DEMAND DURING MAY- 2020

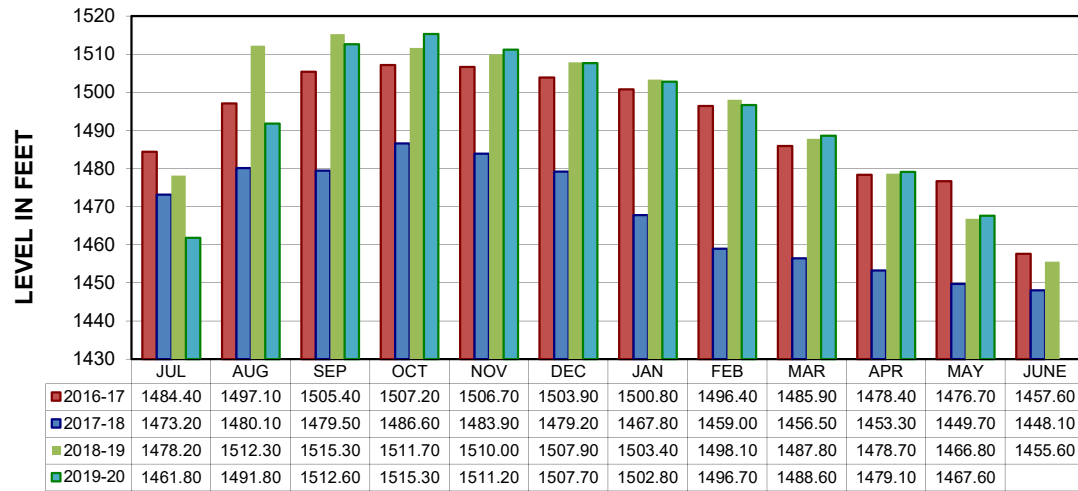


JOLAPUT RESERVOIR LEVEL



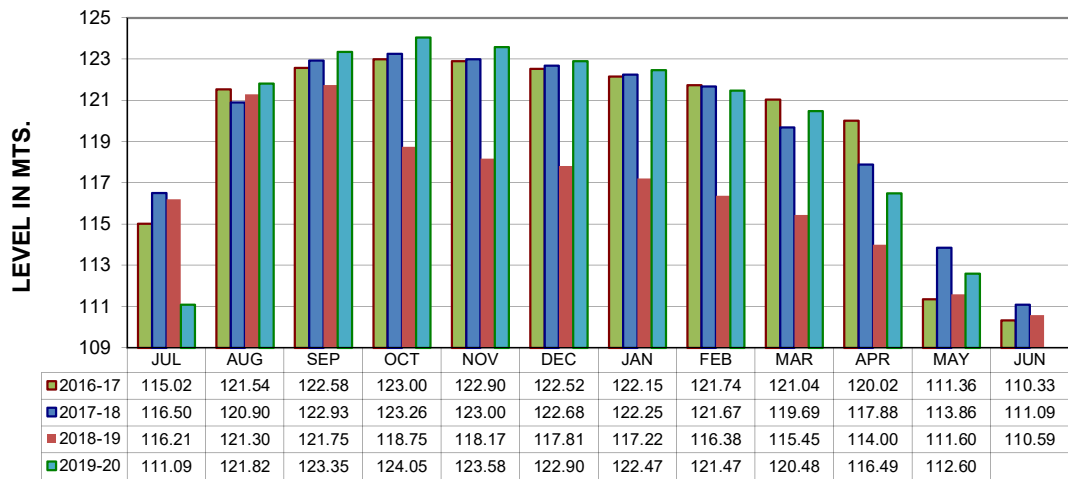
MONTH (End)

BALIMELA RESERVOIR LEVEL



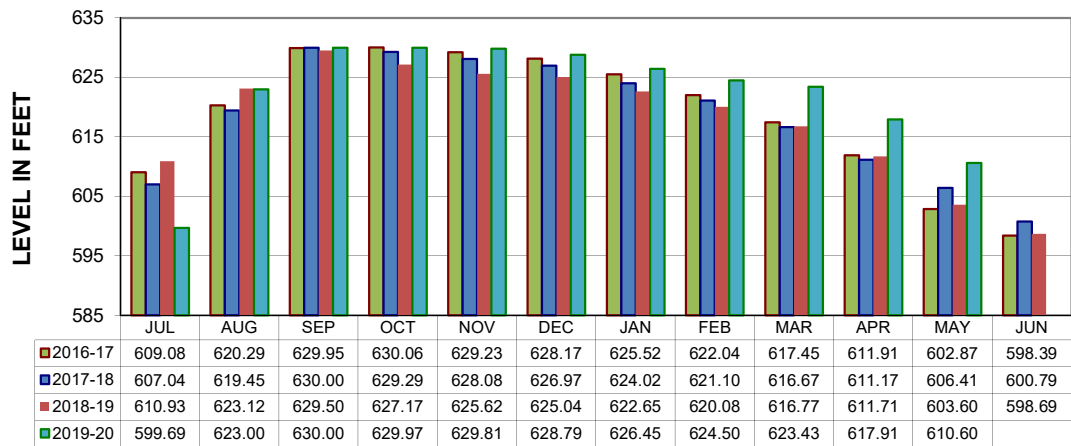
MONTH (End)

RENGALI RESERVOIR LEVEL



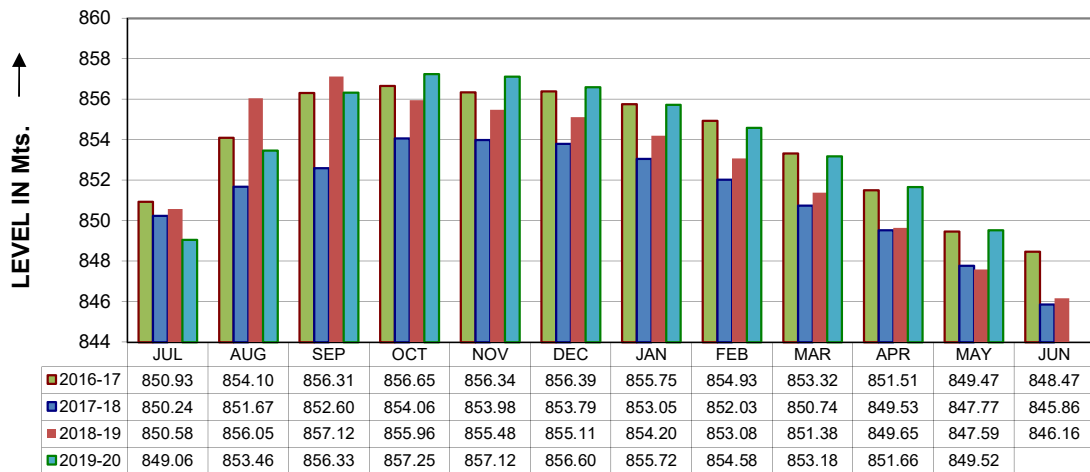
MONTH (End)

HIRAKUD RESERVOIR LEVEL



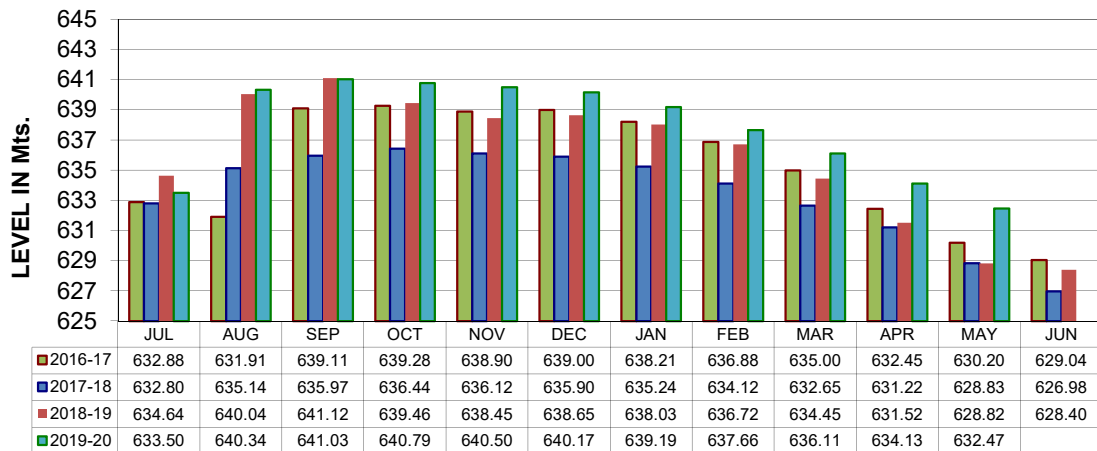
MONTH (End)

U.KOLAB RESERVOIR LEVEL



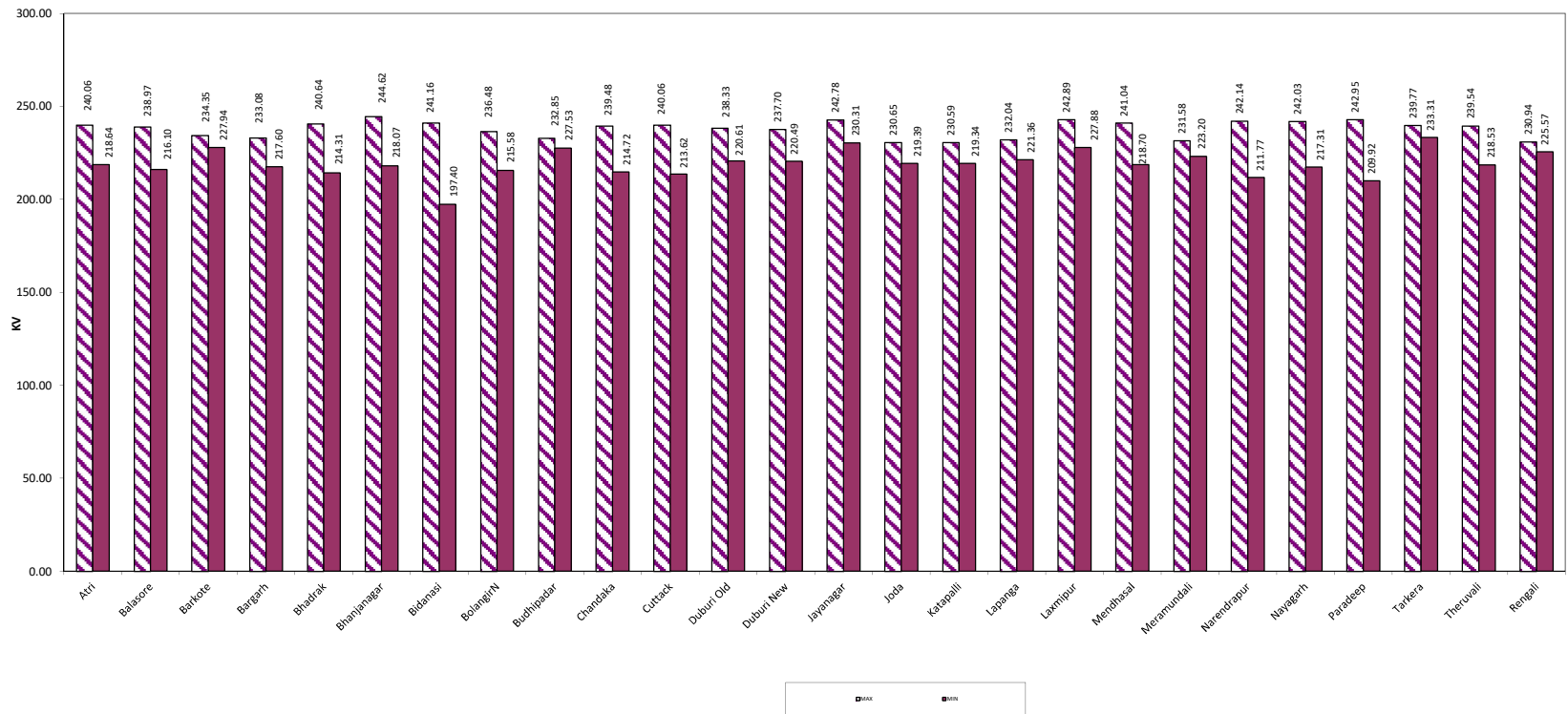
MONTH (End)

INDRAVATI RESERVOIR LEVEL



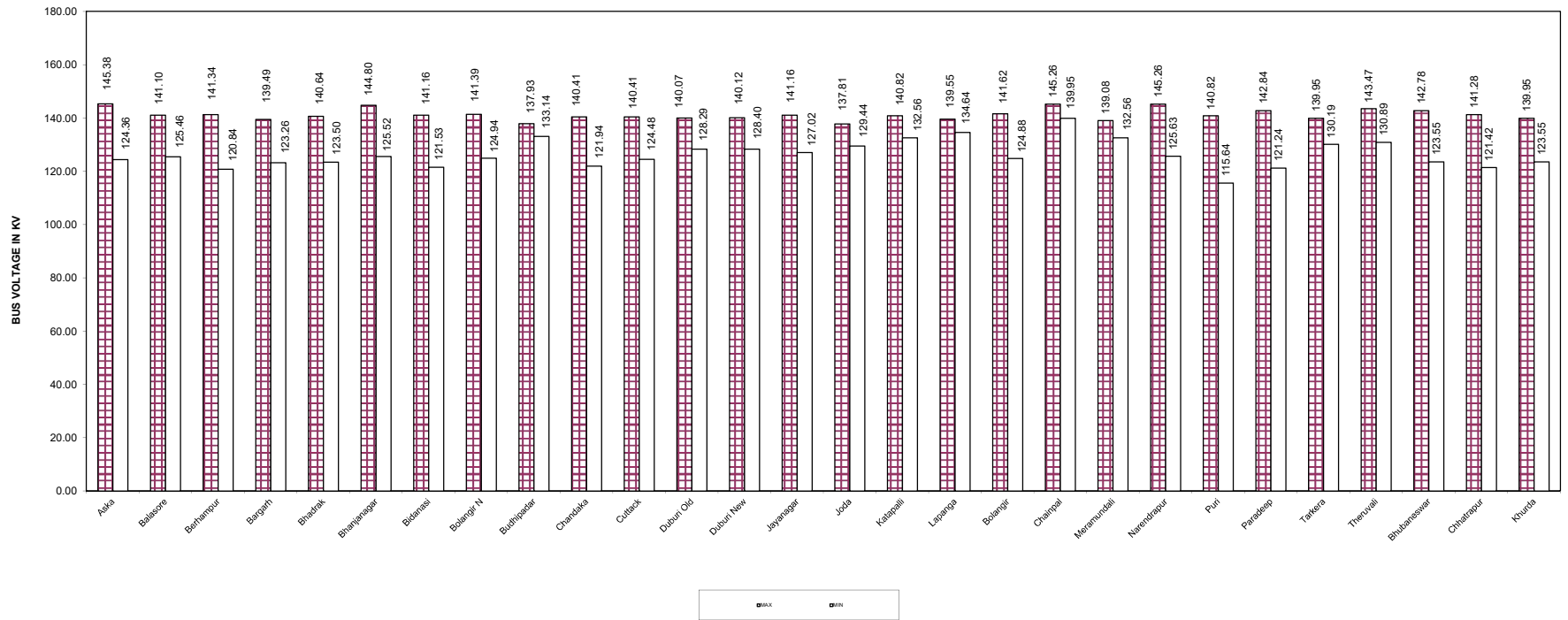
MONTH (End)

VOLTAGE PROFILE OF 220KV S/S FOR MAY 2020

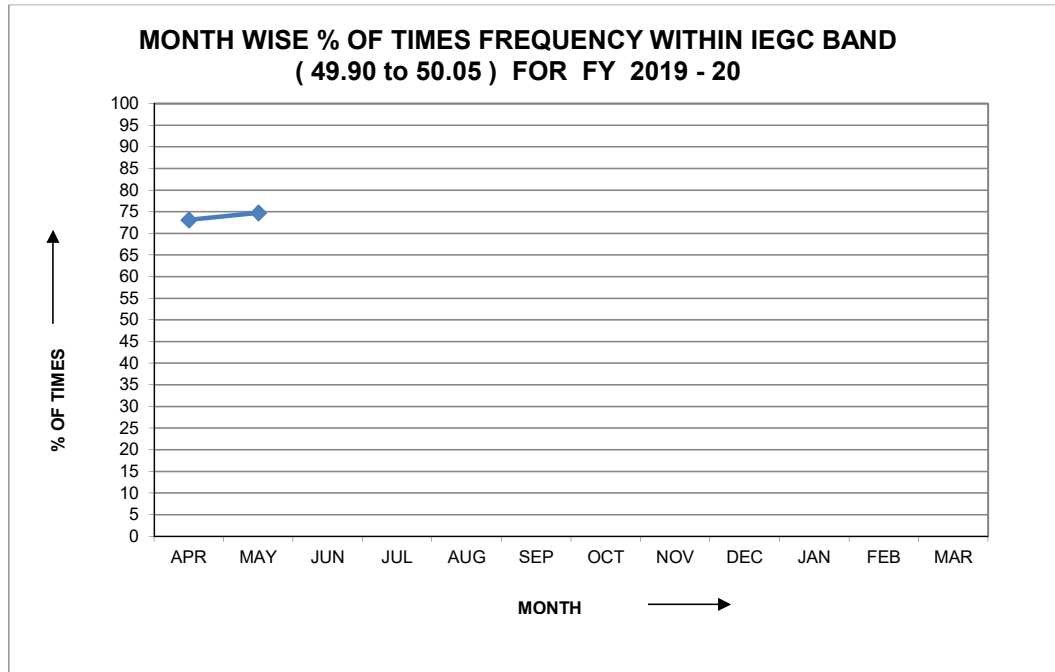


STATION	ATRI		BALASORE		BARKOTE		BARGARH(N)		BHADRAK		BHANJANAGAR		BIDANASI		BOLANGIR		BUDHIPADAR		CHANDAKA		CUTTACK		DUBURI		DUBURI (N)		JAYANAGAR		JODA		KATAPALI		LAPANGA		LAXMIPUR		MENDHASAL		MERAMUNDALI		NARENDRAPUR		NAYAGARH		PARADEEP		TARKERA		THERUVALI	
	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	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.	20	10:15	20	06:45	1	16:15	7	03:30	4	12:15	1	15:45	20	10:15	7	03:30	7	05:15	20	10:15	20	10:15	20	10:15	20	10:15	20	05:30	7	05:15	30	02:00	20	05:30	20	10:15	20	10:15	6	08:30	20	10:15	20	10:15	1	13:45	20	05:30		
MINM.	18	22:45	18	22:45	24	23:00	26	16:30	18	22:45	28	14:15	16	15:00	22	16:45	27	15:45	27	15:00	24	23:00	18	22:45	18	22:45	27	15:15	15	16:15	15	16:15	8	16:00	27	15:15	18	22:45	24	23:00	27	16:00	26	14:15	18	22:30	27	15:45	27	15:15

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



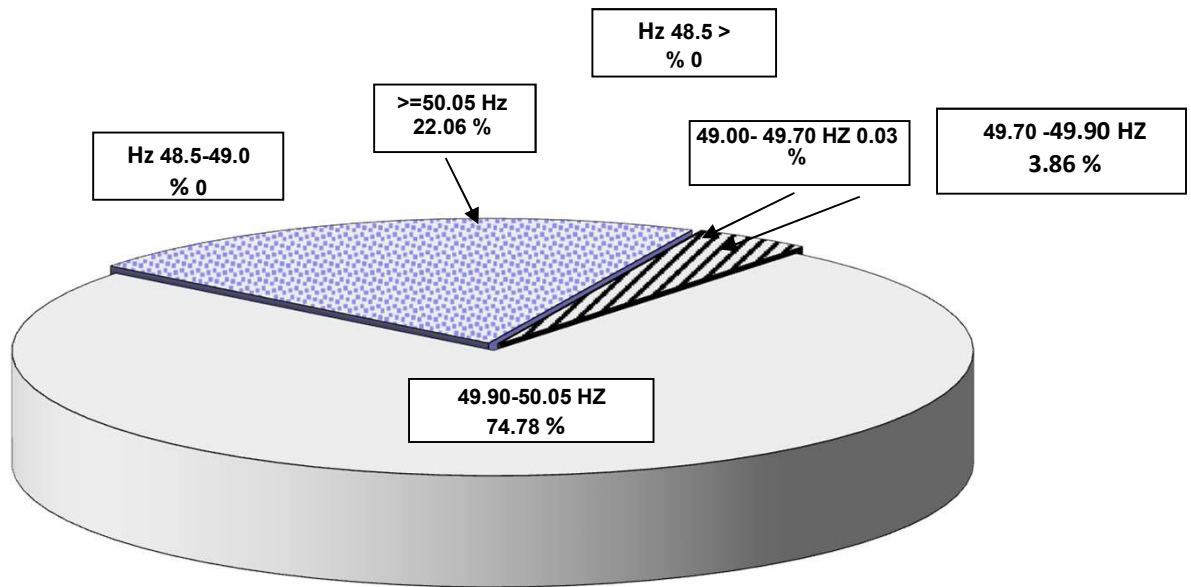
STN	CHATRAPUR		BALASORE		CHAINPAL		BARGARH (N)		BHADRAK		BHANUNAGAR		BIDANASI		BOLANGIR		BUDHIPADAR		CHANDAKA		CUTTACK		DUBURI		KHURDA		JAYANAGAR		JODA		KATAPALI		LAPANGA		MANCHESWAR		PURI		MERAMUNDALI		NARENDRAPUR		BERHAMPUR		PARADEEP		TARKERA		THERUVALI		Bhubaneswar	
	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.	DAY	Hrs.
MAX	1	15:45	20	06:45	6	08:30	7	04:00	4	12:15	1	15:45	29	04:15	6	05:30	7	05:00	20	05:45	29	4:15	20	10:15	20	10:15	20	05:30	31	14:30	7	05:15	7	04:45	6	05:30	1	15:00	20	5:45	6	08:30	20	06:00	20	02:15	7	03:30	20	05:30	20	06:30
MIN	26	14:15	31	23:00	26	14:15	26	16:45	31	23:00	20	13:30	18	22:45	26	16:30	27	15:45	23	22:45	24	23:00	31	23:00	31	23:00	13	14:45	24	23:00	15	16:15	15	16:15	22	16:45	27	15:00	15	22:30	27	16:00	23	22:45	18	22:30	26	16:30	27	15:15	23	22:45



**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
	% of time (49.9 to 50.05 Hz)	73.16	74.78											73.97
	% of time (above 50.05 Hz)	22.06	21.33											21.70

MONTHLY FREQUENCY PROFILE FOR MAY 2020



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

Frequency/Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<48.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.5-49.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.00-49.7	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0
49.7-49.9	28	8	86	130	96	24	43	77	157	37	37	90	20	21	63
49.9-50.05	1020	1099	1091	1070	1082	1040	1121	1204	1138	910	1006	1066	1116	1034	1092
>50.05	392	333	263	233	262	376	276	159	145	493	397	284	304	385	285
>=50.1Hz	97	34	55	61	36	77	47	11	22	143	61	59	40	68	31

Frequency/Day	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
<48.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48.5-49.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49.00-49.70	0	0	0	0	0	0	0	0	0	5	0	0	3	0	0	0	0
49.7-49.90	22	27	53	23	49	13	113	65	23	82	77	23	10	96	86	43	29
49.9-50.05	1157	1043	1138	1056	1196	864	1100	1221	1233	1149	1013	935	890	1058	1186	1054	556
>50.05	261	370	249	361	195	563	227	154	184	204	350	482	537	286	168	343	159
>=50.10Hz	29	75	35	47	22	80	32	31	21	27	70	145	194	75	30	49	30

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

Sl.No	Name of Sub Station	Name of Feeder	Installed Capacity	SMD	Average Drawal MW	MAX DEMAND			
						MW	Date	Time	
1	Angul	MCL Feeder-1&2	132 kV	28.773	22.895	32.240	26th May 2020	19:00	
		Angul	2x40+1x20=100	36.380	24.787	40.958	27th May 2020	13:00	
2	Angul PG	PGCIL Stn. Tertiary		0.162	0.180	0.162	1st May 2020	00:00	
		Arati Steel	132 kV	0.238	0.094	4.763	1st May 2020	15:15	
3	Angul	Angul	2x40+1x20=100	7.160	4.937	16.452	29th May 2020	16:45	
4	Badagada	Badagada	2x63=126	32.869	21.562	39.244	18th May 2020	22:15	
5	Balugaon	SOLARI Traction	132kV	1.440	2.153	7.920	2nd May 2020	15:00	
		Balugaon	1x40+1x20+1x12.5=72	29.736	25.790	32.806	8th May 2020	19:30	
6	Banki	Banki	2x20=40	12.096	8.833	14.500	5th May 2020	11:45	
7	Bhubaneswar	Bhubaneswar	3x63=189	79.360	57.455	102.120	27th May 2020	14:45	
8	Bidanasi	Bidanasi	2x63+1x40=166	83.641	53.342	91.631	27th May 2020	15:15	
9	Boinda	Boinda Traction	132 kV	0.320	1.654	12.040	9th May 2020	02:45	
		Boinda	1x20+2x12.5=45	15.857	12.921	19.105	25th May 2020	10:15	
10	BPPL S/W	BPPL Fdr-I&II	132 kV	0.000	0.000	0.960	29th May 2020	05:15	
11	Chainpal	FCI Feeder	132 kV	0.480	0.320	0.520	26th May 2020	14:45	
		Talcher Rd. Trac.	132 kV	6.360	5.539	13.240	24th May 2020	10:00	
		Chainpal	2x40+1x20=100	56.492	39.208	58.124	31th May 2020	12:45	
12	Chandaka	Chandaka	3x63=189	85.929	65.290	108.105	27th May 2020	15:00	
13	Chandpur	Chandpur	2x12.5=25	12.169	9.782	13.496	18th May 2020	22:15	
14	Choudwar	Choudwar Traction	132 kV	9.520	4.954	14.240	4th May 2020	11:45	
		Choudwar	3x40=120	46.773	39.036	60.783	26th May 2020	19:45	
15	Cuttack	Cuttack	3x40=120	50.858	37.737	59.725	18th May 2020	15:00	
16	Dhenkanal	Joranda Trac.	132 kV	6.900	4.856	11.800	1st May 2020	09:00	
		Narveram CGP Fdr	33 kV	0.125	0.091	4.349	24th May 2020	06:15	
		Dhenkanal	3x40=120	43.694	34.439	50.133	26th May 2020	11:30	
17	Grid Steel AlloV S/W	GSAL Feeder	132kV	0.000	1.109	18.160	31th May 2020	22:30	
18	Hind Metalics	MGM Feeder	132kV	0.392	0.252	0.588	18th May 2020	16:15	
		NBVL Fdr-1&2	132kV	0.000	0.002	0.563	12th May 2020	20:00	
		SGEL Feeder	132kV	0.000	0.083	1.800	25th May 2020	18:45	
		Meramundali Trac.	132 kV	2.925	3.919	13.613	12th May 2020	12:45	
19	Infocity-II GIS	Infocity-II GIS (220/33)	2x40=80	14.760	12.381	16.600	17th May 2020	22:15	
20	Jagatsinghpur	Gorakhnatn Trac.	132 kV	4.875	6.728	13.638	10th May 2020	16:30	
		Jagatsinghpur	1x40+2x20=80	37.826	26.928	40.312	18th May 2020	22:15	
21	Kalarangi	Kalarangi	1x20+2x12.5=45	10.906	9.289	14.050	30th May 2020	19:30	
22	Kamakhyanagar	Kamakhyanagar	1x20+2x12.5=45	18.752	14.427	19.512	27th May 2020	13:30	
23	Kendrapada	Kendrapada	2x40+1x12.5=92.5	33.480	23.408	35.480	31th May 2020	22:30	
24	Khairiakata	Khairiakata	2x40=80	7.844	5.289	8.680	23th May 2020	22:00	
25	Khuntuni GIS	Khuntuni GIS	2x40=80	6.560	3.415	6.720	27th May 2020	19:30	
26	Khurda	Kaipadar Trac.	132 kV	6.560	5.063	15.160	27th May 2020	14:30	
		Khurda	4x40=160	65.280	48.880	68.144	29th May 2020	23:00	
27	Konark	Konark	2x20=40	5.724	3.911	8.396	11th May 2020	22:45	
28	Mania	Mania	1x20+1x12.5=32.5	1.688	0.428	4.048	27th May 2020	21:00	
29	Marshaghai	Marshaghai	2x20=40	17.372	11.910	18.704	11th May 2020	21:45	
30	Mendhasal	Mendhasal(220/33)	2x20=40	2.156	1.481	2.232	28th May 2020	00:00	
31	Meramundali	BSL-TATA Fdr-1&2	220 kV	6.640	8.432	56.040	19th May 2020	16:45	
		BRG Feeder	132kV	0.360	0.305	0.440	10th May 2020	17:45	
		JSPL Feeder-1&2	400 kV	0.000	0.221	76.438	16th May 2020	22:30	
		RUNGTA Feeder	132kV	0.200	0.166	0.280	15th May 2020	18:45	
32	Narsinghpur	Narsinghpur(220/33)	1x40=40	5.452	3.774	5.648	26th May 2020	12:30	
33	Navagarh	Navagarh (220/33)	2x40+1x20=100	63.208	42.098	63.275	27th May 2020	23:00	
34	Nimapara	Nimapara	3x40=120	44.999	33.631	49.078	16th May 2020	21:45	
35	Nuapatana	Nuapatana	1x40+1x20+1x12.5=72	31.967	25.072	34.125	26th May 2020	09:30	
36	Olaver	Olaver	2x12.5=25	8.468	5.093	9.012	23th May 2020	21:45	
37	Pandiabil PG	PGCIL Stn. Tertiary		0.048	0.053	0.048	1st May 2020	00:00	
38	Paradeep	Essar Steel Fdr-1&2	220kV	0.000	4.734	34.663	1st May 2020	05:15	
		IFFCO Fdr-1&2	132kV	2.480	1.296	8.840	21th May 2020	20:30	
		IOCL Feeder	220kV	0.413	0.342	0.600	20th May 2020	03:00	
		PPL Fdr-1&2	132kV	11.520	8.438	13.520	1st May 2020	00:30	
		PPT Fdr-1&2	132kV	15.080	9.922	17.240	5th May 2020	21:15	
		Paradeep	3x20=60	16.751	15.009	25.307	10th May 2020	19:30	
39	Pattamundai	Pattamundai	2x20+1x12.5=52.5	28.460	18.656	29.275	31th May 2020	22:00	
40	Phulnakhara	Phulnakhara	1x40+2x20=80	30.151	23.097	32.291	16th May 2020	22:00	
41	Puri	Puri	3x40=120	30.140	23.850	35.446	29th May 2020	20:30	
42	Ranasinghpur	Ranasinghpur	3x63=189	81.658	57.900	96.538	18th May 2020	23:00	
43	Rengali PG	PGCIL Stn. Tertiary		0.044	0.049	0.044	1st May 2020	00:00	
44	Rengali S/W	Rengali S/W (220/33)	2x20=40	14.172	9.815	17.308	22th May 2020	19:45	
45	Salipur	OCL Feeder	132kV	8.353	5.653	9.228	16th May 2020	19:15	
		Salipur	3x20=60	29.099	20.857	30.333	31th May 2020	22:15	
46	Samangara	Samangara	2x20=40	12.208	4.854	15.248	30th May 2020	12:45	
47	Shamuka	Shamuka	2x31.5=63	15.680	15.892	23.840	23th May 2020	22:45	
48	Tirtol	Tirtol	2x40=80	11.320	5.126	11.640	31th May 2020	21:45	
49	TS Alloys S/W	RAWMET Feeder	132kV	21.069	21.573	23.800	28th May 2020	02:00	
50	Unit-8 GIS	Unit-8 GIS	1x40=40	15.120	10.648	18.880	27th May 2020	14:45	
		Balugaon	Khallikote Feeder	33kV	11.388	12.101	17.852	10th May 2020	07:15
		Chandikhol	Badachana Feeder	33kV	12.215	10.353	14.481	29th May 2020	19:00
		Rairakhol	Bamur Feeder	33kV	2.832	2.230	3.996	24th May 2020	11:45
		Rengali	BUDHAPAL Feeder	33kV	-1.625	-0.987	1.690	23th May 2020	14:15
		Barkote	Pallhara Feeder	33kV	2.838	1.925	7.609	23th May 2020	19:00
		Chandaka	S.N. Mohanty(Solar)	11kV	0.000	0.132	0.606	17th May 2020	12:15
		Chandpur	MGM SOLAR	11kV	0.000	0.140	0.634	18th May 2020	11:30
		Chandpur	VIVACITY Solar	11kV	0.000	0.129	0.581	7th May 2020	11:45
		CESU TOTAL ENERGY (MU)		1.417.1347	788.1441	1.901.6849			

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

SL.No	Name of Sub Station	Name of Feeder	Installed Capacity MVA	SMD MW	Average Drawal MW	MAX DEMAND		
						MW	Date	Time
1	Aryan-Viraj S/W	Arvan Ispat Feeder	132 kV	0.253	0.201	1.238	8th May 2020	06:30
		Arvan-Viraj	132 kV	0.128	0.154	0.572	5th May 2020	08:45
2	Bamra	Bamra Traction	132 kV	10.280	5.540	14.760	27th May 2020	00:00
3	Barapalli	Dunguripali Tr.	132kV	5.240	3.553	13.280	3rd May 2020	04:30
		Barapalli	1x40+1x20=60	34.556	23.184	40.504	21th May 2020	09:45
4	Bargarh	ACC Feeder-1&2	132kV	0.520	0.798	3.640	11th May 2020	02:15
	Bargarh	Bargarh	3x40=120	81.545	55.654	85.568	29th May 2020	17:15
5	Bargarh (New)	Bargarh (New)	1x12.5=12.5	0.036	0.032	0.096	27th May 2020	14:00
6	Barkote	Barkote (220/33)	2x40=80	16.284	12.719	26.861	11th May 2020	21:45
7	Bhalulata	Bhalulata Traction	132 kV	3.040	2.732	10.720	29th May 2020	13:00
8	Bhawanipatna	Bhawanipatna	2x12.5=25	13.166	12.243	17.547	27th May 2020	22:15
9	Bolangir PG	415V side Tertiary		0.048	0.053	0.048	1st May 2020	00:00
10	Bolangir	Bolangir	3x40=120	51.443	35.040	58.383	29th May 2020	16:45
11	Bolangir (New)	Bolangir (New)	1x40+1x12.5=52.5	8.800	3.918	9.720	18th May 2020	16:45
12	Bonai	Bonai(220/33)	2x20=40	12.164	7.882	13.444	26th May 2020	21:00
13	Brajarajnagar	Brajarajnagar	1x40+3x20=100	27.006	29.599	40.422	1st May 2020	11:30
14	Budhipadar	AAL Feeder-1&2	220 kV	0.000	0.235	5.640	15th May 2020	03:45
		Basundhara Fdr	220 kV	2.563	2.105	3.250	15th May 2020	19:15
		BPSL Feeder-1&2	220 kV	34.000	8.355	100.781	1st May 2020	01:45
		MCL Fdr-1&2	132 kV	16.400	14.976	21.950	26th May 2020	19:45
		MSP Feeder	132 kV	0.000	0.000	0.000	1st May 2020	00:00
		SPS(CONCAST) Fdr	220 kV	0.000	0.000	0.000	1st May 2020	00:00
		Budhipadar	1x20+1x12.5=32.5	16.253	8.558	17.006	25th May 2020	16:30
		Vedanta Ltd	220 kV	0.000	1.768	14.400	27th May 2020	02:45
15	Burla P.H.	Island & Incomer	11 kV	0.063	0.045	0.087	1st May 2020	00:00
16	Chandiposh	Chandiposh Trac	220 kV	2.160	2.408	16.520	30th May 2020	18:00
17	Chend	Adhunik Metallic Fdr.	132 kV	0.000	0.000	0.000	1st May 2020	00:00
		Nuagaon Trac.	132 kV	0.160	1.222	10.240	29th May 2020	09:15
		Sri Ganesh Metallics	132 kV	0.000	1.273	2.863	26th May 2020	04:00
		Chend	3x40=120	68.875	47.578	77.725	26th May 2020	22:15
18	Chipilima P.H.	Chipilima P.H.	1x20+1x12.5=32.5	23.732	17.323	24.287	14th May 2020	16:45
19	Ghens	Ghens	1x40=40	11.960	6.889	13.080	1st May 2020	16:15
20	Jayapatna	Megalift Feeder-I & II	132 kV	0.000	0.068	6.880	8th May 2020	13:15
21	Jharsuguda	Jharsugda Trac.	132 kV	14.631	10.120	22.400	23th May 2020	18:00
		Jharsuguda	2x40=80	19.200	18.059	28.680	28th May 2020	15:00
		Ultratech Feeder	132kV	6.192	9.464	12.060	26th May 2020	23:30
22	Junagarah	Junagarah	3x20=60	24.380	21.747	30.420	14th May 2020	21:15
23	Kalunga	Kalunga	2x40=80	44.560	34.533	46.520	18th May 2020	10:45
		Mahavir Ferro CGP	33 kV	0.000	0.000	0.000	1st May 2020	00:00
24	Kantabanji	Kantabanji Trac.	132 kV	2.800	2.930	10.360	4th May 2020	18:00
		Kantabanji	2x40=80	7.960	7.653	13.120	27th May 2020	18:15
		HINDALCO Fdr-1&2	220 kV	2.700	7.960	2.700	18th May 2020	12:15
	Katapali	Katapali	1x40+2x20=80	31.044	28.915	38.296	18th May 2020	16:15
26	Kesinga	POWMEX Fdr	132 kV	0.172	0.121	0.319	28th May 2020	10:30
		Kesinga Traction	132 kV	2.320	3.371	11.920	23th May 2020	09:45
		Kesinga	1x40+2x20=80	38.328	25.747	39.414	15th May 2020	16:30
27	Khariar	Khariar	2x40=80	19.560	23.969	32.320	28th May 2020	19:30
28	Kuchinda	Kuchinda	2x20=40	15.034	10.471	16.788	25th May 2020	21:15
29	Lapanga	Rengali Traction	132KV	7.960	5.553	15.080	23th May 2020	05:00
		Lapanga	1x20=20	8.340	6.610	9.216	24th May 2020	19:15
30	Nuapada	Nuapada Trac.	132 kV	0.000	0.000	0.000	1st May 2020	00:00
		Nuapada	2x20=40	10.048	8.735	12.684	3rd May 2020	22:30
31	OPGC S/W Stn.	BGR Energy Ltd. Fdr	33 kV	0.027	0.030	0.027	1st May 2020	00:00
		BHEL Ltd. Feeder	33 kV	0.000	0.000	0.000	1st May 2020	00:00
32	Padampur	Padampur	1x40+2x20=80	15.440	14.965	25.154	29th May 2020	16:15
33	Patnagarh	Patnagarh	1x40+2x20=80	27.324	15.945	28.080	31th May 2020	17:00
34	Rairakhol	Rairakhol Trac.	132kV	2.680	1.775	10.600	20th May 2020	18:00
		Rairakhol	3x12.5=37.5	9.800	6.624	10.320	26th May 2020	19:30
35	Rajgangpur	OCL Feeder	132kV	4.400	3.601	26.360	13th May 2020	03:30
		OISL Feeder	132kV	0.000	0.000	0.000	1st May 2020	00:00
		Rajgangpur Trac-1&2	132 kV	3.440	2.710	6.200	25th May 2020	11:00
		Rajgangpur	3x40=120	59.320	43.717	63.680	27th May 2020	22:00
36	Rourkela PG	PG Tertiary		0.085	0.094	0.085	1st May 2020	00:00
37	Rourkela	Rourkela Trac Tfr	1x12.5=12.5	7.160	5.049	10.760	10th May 2020	21:45
		Rourkela	1x40+3x35=145	55.520	38.994	58.280	27th May 2020	15:30
38	Saintala	ORDNANCE Feeder	132 kV	1.640	1.598	4.280	27th May 2020	10:15
39	Sambalpur	Sambalpur	1x40+2x31.5=103	77.315	57.638	83.195	27th May 2020	16:30
		Shvam DRI Feeder	132 kV	0.144	5.084	11.344	17th May 2020	00:45
40	SMC S/W	SMC Power	132kV	10.875	7.112	13.538	26th May 2020	02:15
41	Sonepur	Sonepur	2x40+1x20=100	44.974	30.436	50.056	3rd May 2020	19:30
42	Sundargarah PG	PG TERTIARY	33 kV	0.160	0.178	0.160	1st May 2020	00:00
43	Sundargarah	Sundargarah	1x40+2x20=80	29.215	21.366	35.919	29th May 2020	22:15
44	Tarkera	RSP Feeder-1&2	220 kV	31.656	35.184	102.000	14th May 2020	20:00
		RSP Feeder-3&4	220 kV	2.800	2.119	4.400	18th May 2020	17:45
45	Tusura	Tusura	1x40+1x20=60	13.900	10.203	17.664	4th May 2020	17:00
46	VAL Lanjigarh	Vedanta AL fder-1&2	132 kV	0.000	0.055	4.087	17th May 2020	04:30
47	Vedanda S/W	Vedanta SEZ	400 kV	242.051	39.278	285.961	20th May 2020	02:30

	Barkote	Pallhara Feeder	33kV	2.522	1.925	7.609	23th May 2020	19:00
	Joda	Joda-Tensa Feeder	33 kV	4.391	4.808	8.564	11th May 2020	19:00
	Rairakhol	Bamur Feeder	33 kV	3.488	2.230	3.996	24th May 2020	11:45
	Rengali	BUDHAPAL Feeder	33kV	0.895	0.987	1.690	23th May 2020	14:15
	Sonepur	Manamunda Feeder	33 kV	11.904	8.162	13.508	4th May 2020	16:30
	Tentulikhunti	Mukhiguda Fdr	33KV	1.689	1.388	2.186	24th May 2020	21:15
	ACME SOLAR	ACME SOLAR	132 kV	0.000	0.030	0.100	13th May 2020	18:15
	Bamra	Jov Iron Steel (Solar)	11 kV	0.000	0.099	0.366	4th May 2020	12:15
	Barkote	Molisati Solar	11 kV	0.111	0.097	0.499	4th May 2020	12:30
	Kesinga	SADIPALI Solar	33kV	0.000	5.064	20.640	7th May 2020	11:45
	Kesinga	Vento Power Solar -1	132 kV	0.000	0.038	0.120	2nd May 2020	18:30
	Kesinga	Vento Power Solar -2	132 kV	0.040	0.023	0.080	2nd May 2020	03:45
	Bonej	Mahavir Solar	33 kV	0.144	0.138	0.667	7th May 2020	12:45
	Padampur	Dakshin UPL solar	132kV	0.000	0.041	0.160	8th May 2020	17:30
	Patnagarh	ALEX Solar Pvt. Ltd.	33 kV	0.000	0.000	0.000	1st May 2020	00:00
	Patnagarh	JYOTI Solar	33 kV	2.292	2.519	9.672	7th May 2020	11:00
	Bolangir (New)	REHPL(Solar)	11kV	0.124	0.173	0.660	7th May 2020	12:30
	Saintala	BEL-OFBL Solar	132kV	0.000	0.013	0.040	4th May 2020	21:00
	Sonepur	GEDCOL Solar	33 kV	2.868	3.439	12.972	10th May 2020	11:45
	Sonepur	ABACUS Holdings	11 kV	0.161	0.184	0.827	30th May 2020	11:30
	Tusura	Vento Power Solar-I	132 kV	0.000	0.036	0.120	2nd May 2020	18:15
	Tusura	Vento Power Solar-II	132 kV	0.000	0.027	0.080	1st May 2020	00:15
		WESCO TOTAL ENERGY (MU)		1,366.4582	907.2408	1,436.3015		

ENERGY DRAWAL OF NESCO CONTROL AREA GRID SUBSTATIONS FOR THE MONTH OF MAY'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	2.280	1.416	2.440	27th May 2020	22:15
2	Anandpur	Anandpur	1x20+2x12.5=45	19.123	13.551	20.039	27th May 2020	22:15
3	Arya Ispat S/w	ARYA Steel Fdr	132kV	6.736	6.448	8.364	28th May 2020	04:00
		BRPL Feeder	132kV	15.856	15.541	10.680	6th May 2020	05:00
		IMTCPL Fder	132kV	0.000	0.000	0.000	1st May 2020	00:00
4	Balasore	BIRLA Tyre Fder	132kV	0.420	1.465	6.980	7th May 2020	07:15
		ISPAT Feeder	132kV	51.320	12.597	52.240	11th May 2020	11:15
		Balasore Traction	132kV	3.680	3.368	12.120	27th May 2020	17:45
		Balasore	2x63+1x40=166	100.663	67.584	105.135	18th May 2020	22:30
5	Bangiriposi	Bangiriposi	2x12.5=25	12.160	5.832	12.224	31th May 2020	22:00
6	Barbil	Barbil	2x12.5=25	11.344	7.846	12.750	27th May 2020	20:45
7	Baripada PG	Baripada PG Stn.		0.089	0.099	0.089	1st May 2020	00:00
8	Baripada	Baripada	3x40=120	38.360	24.974	42.695	7th May 2020	21:30
9	Basta	Basta	2x20+1x12.5=52.5	21.225	12.277	22.280	18th May 2020	22:00
10	BC Mohanty S/w	Bamnipal(New) Fdr	132kV	19.640	17.830	24.080	1st May 2020	08:30
		BC Mohanty fdr	132 kV	4.360	4.220	4.688	11th May 2020	02:30
		TOMKA Traction	132kV	1.960	2.308	14.440	30th May 2020	17:30
11	Betanati	Betanati	1x20=20	10.624	6.905	12.952	15th May 2020	11:45
12	Bhadrak	Dhamra Port (Trac.)	132 kV	2.569	2.176	6.081	14th May 2020	23:15
		Dhamra Port Fder	132 kV	6.738	5.421	11.338	14th May 2020	12:00
		FACOR Feeder	132kV	0.000	0.017	9.520	22th May 2020	15:30
		FACOR Power	132kV	0.000	0.017	3.240	21th May 2020	15:45
		Bhadrak Traction	132 kV	9.080	3.783	11.440	12th May 2020	05:45
		Bhadrak	2x63+1x40=166	78.360	51.327	82.160	27th May 2020	22:45
		Bhograi	2x40=80	12.680	6.271	13.680	18th May 2020	21:45
14	Bolani	Bolani(132/11)	2x10=20	1.532	1.957	3.948	29th May 2020	11:00
15	BRPL S/w	BRPL Feeder	132kV	15.856	15.541	17.794	14th May 2020	12:30
		Mesco Feeder	132kV	0.006	0.001	0.025	8th May 2020	23:30
16	Chandabali GIS	Chandabali GIS	1x40=40	9.520	6.287	10.680	27th May 2020	22:45
17	Chandikhol	Chandikhol	3x20=60	34.089	25.395	37.726	24th May 2020	19:15
18	Dhenkikote	Dhenkikote	1x20=20	5.040	3.075	5.660	27th May 2020	22:00
19	Duburi	Jakhapura Traction	132 kV	10.400	5.789	14.400	27th May 2020	03:15
		JFAL Feeder	132 kV	0.000	0.000	0.000	1st May 2020	00:00
		Mishrilal Feeder	132 kV	5.981	5.639	6.344	28th May 2020	10:45
		NINL Feeder	220 kV	1.825	1.736	2.050	20th May 2020	02:15
		Duburi(220/33)	2x40=80	19.104	14.040	21.318	16th May 2020	19:15
		Emami Feeder	220 kV	10.400	4.396	11.320	30th May 2020	17:00
20	Duburi-New	Jindal Stainless-1&2	220 kV	0.240	9.571	38.960	5th May 2020	09:45
		Maithan Feeder	220 kV	0.000	0.000	0.000	1st May 2020	00:00
		Rohit Ferrotech	220 kV	16.120	2.337	18.120	30th May 2020	17:15
		TATA Steel Fdr-1&2	220 kV	6.000	5.736	153.480	30th May 2020	09:00
		VISA Steel	220 kV	0.400	1.361	15.360	20th May 2020	08:15
		Jaganath Steel Fdr	132kV	0.725	1.203	8.744	3rd May 2020	21:45
		Jajpur Road	3x40=120	37.800	30.839	43.320	27th May 2020	15:15
21	Jajpur Road	Yazdani CGP Feeder	33 kV	0.000	0.000	0.000	1st May 2020	00:00
		Jajpur Town	2x40+1x20=100	46.250	31.870	47.174	31th May 2020	22:00
23	Jaleswar	Jaleswar Trac.	132 kV	0.840	3.170	10.840	29th May 2020	06:15
		Jaleswar	2x31.5+1x12.5=75.5	20.052	11.716	20.352	31th May 2020	22:00
24	Joda	Bansapani Trac.	132 kV	3.919	4.612	18.081	31th May 2020	20:45
		FAP Feeder	132kV	15.384	15.157	15.878	17th May 2020	07:45
		JSPL Trf-	2x50+1x20=120	47.813	50.843	94.643	1st May 2020	09:30
		TATA STEEL	220kV	6.000	5.736	8.480	26th May 2020	19:15
		TATA Steel Long	220 kV	0.000	0.000	0.120	16th May 2020	17:00
		Joda	1x40+3x20=100	15.203	13.777	22.298	11th May 2020	20:15
		Sarada Ind (220/33)	1x15=15	1.000	1.915	3.800	9th May 2020	11:45
25	JSW Cement S/W	JSW Cement Fdr	132kV	4.200	3.244	6.640	1st May 2020	01:00
26	Karaniia	Karaniia	1x20+2x12.5=45	18.281	11.633	20.309	27th May 2020	21:00
27	Keonjhar GIS	Keonjhar GIS	2x20=40	4.332	2.970	14.492	15th May 2020	23:00
28	Keonjhar PG	PGCIL Stn. Tertiary		0.173	0.193	0.173	1st May 2020	00:00
29	Nalda	Nalda Traction	132 kV	0.880	1.598	11.280	13th May 2020	20:00
30	Polasponga	ESIL Feeder	132 kV	18.444	10.253	24.319	1st May 2020	00:00
		MSP Feeder	132 kV	6.468	9.188	11.316	6th May 2020	06:15
		OSISL CGP Feeder	33 kV	0.000	0.000	0.000	14th May 2020	15:45
		Patnaik Steel CGP	33 kV	0.000	0.000	0.000	1st May 2020	00:00
		Palasponga Trac.	132 kV	8.644	5.201	18.544	16th May 2020	09:00
		Polasponga	1x40+2x20=80	34.300	23.435	39.444	27th May 2020	23:00
31	Rairangpur	Rairangpur	2x20+1x12.5=52.5	20.116	13.389	21.975	24th May 2020	20:45
32	Somnathpur	IMAMI Feeder	132 kV	0.031	0.165	4.122	13th May 2020	11:00
		Stork Feeder	132 kV	0.050	0.050	0.078	22th May 2020	11:15
		Somnathpur	2x12.5=25	2.752	2.175	3.532	31th May 2020	00:15
33	Soro	Soro	1x40+2x20=80	50.086	30.130	53.438	27th May 2020	22:15
34	Udala	Udala	1x40=40	14.320	8.040	14.360	31th May 2020	21:30
	Chandikhol	Badachana Fder	33kV	14.519	10.353	15.706	29th May 2020	19:30
	Joda	Joda-Tensa Fdr	33 kV	5.904	4.808	9.284	11th May 2020	19:00
		NESCO TOTAL ENERGY (MU)		964.2652	508.7453	1421.5806		

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

Sl.No	Name of Sub Station	Name of Feeder	Installed Capacity	SMD	Average Drawal	MAX DEMAND		Time
						MW	Date	
1	Akhusingi	Akhusingi	2x12.5=25	13.554	10.104	14.091	28th May 2020	15:30
2	Aska	Aska	4x40=160	44.920	46.605	67.720	23th May 2020	06:45
3	Balimela	Balimela (220/33)	1x40+1x20=60	12.560	9.437	13.628	27th May 2020	19:45
4	Berhampur	Berhampur	2x40+1x20=100	56.241	42.519	61.547	27th May 2020	23:30
5	Bhanjanagar	Bhanjanagar	2x40+1x16=96	28.894	24.062	31.270	27th May 2020	15:45
6	Boudh	Boudh	2x20=40	0.000	0.000	0.000	1st May 2020	00:00
7	Chatrapur	IRE Feeder-1&2	132kV	6.922	6.117	8.303	30th May 2020	18:45
		Rambha Traction	132 kV	0.000	0.000	0.000	1st May 2020	00:00
		Chatrapur	3x20=60	4.881	4.252	6.663	26th May 2020	08:00
8	Chikiti	Chikiti	1x40=40	10.800	8.995	11.440	24th May 2020	12:00
9	Dabugaon	Dabugaon	2x12.5=25	10.514	6.695	13.512	28th May 2020	19:30
10	Digapahandi	Digapahandi	2x20+1x12.5=52.5	19.672	19.832	25.775	25th May 2020	17:00
11	Ganjam	GRASIM Ind. Ltd.	132kV	10.106	9.073	10.606	22th May 2020	15:15
		Ganjam	2x12.5=25	1.440	5.371	14.480	28th May 2020	07:45
12	Jaypur PG	Jaypur PG Ter.	28KV	0.000	0.000	0.000	1st May 2020	00:00
13	Jayanagar	Jaypur Trac.	132 kV	9.200	6.905	28.200	30th May 2020	04:30
		Jayanagar	2x20+1x12.5=52.5	28.611	21.978	31.178	28th May 2020	19:45
14	Laxmipur	Laxmipur	1x20=20	7.228	5.955	10.224	27th May 2020	19:00
		Utkal Alumina Fdr-I&II	220kV	0.080	0.203	12.240	24th May 2020	04:30
15	Malkangiri	Malkangiri (220/33)	2x40=80	14.128	12.075	20.999	5th May 2020	15:30
16	Meenakshi s/w	Megalift Feeder	33kV	0.004	0.002	0.150	22nd May 2020	15:00
17	Mohana	Mohana	2x12.5=25	6.660	4.414	7.164	26th May 2020	20:30
18	Muniguda	Bissam-Cuttack Tr	132 kV	10.440	3.815	18.640	1st May 2020	16:15
19	Narendrapur	TATA Feeder-I&II	220 KV	0.000	0.000	0.000	1st May 2020	00:00
		Narendrapur Trac	132 kV	5.040	2.968	11.440	4th May 2020	08:00
		Narendrapur	3x40+1x20=140	34.528	25.729	37.452	28th May 2020	22:45
20	Paralakhemendi	Paralakhemendi	3x12.5=37.5	16.032	12.210	19.292	8th May 2020	23:00
21	Phulbani	Phulbani	2x40+1x12.5=92.5	27.856	17.682	29.800	26th May 2020	20:00
22	Podagada	Podagada	1x12.5=12.5	1.140	0.930	2.308	19th May 2020	06:45
23	Potangi	Potangi	1x40=40	4.668	2.709	4.936	29th May 2020	06:45
24	Purushottampur	Purushottampur	1x20+2x12.5=45	6.719	6.418	12.322	12th May 2020	16:00
25	Rayagada	Rayagada Trac.	132 kV	4.240	4.511	16.680	20th May 2020	22:00
		Rayagada	2x12.5=25	10.544	7.000	11.152	28th May 2020	22:45
26	Sunabeda	HAL Feeder	132kV	9.171	5.255	12.181	1st May 2020	00:00
		Sunabeda	1x20+2x12.5=45	16.694	14.839	21.823	28th May 2020	19:30
27	Tentulikhunti	Tentulikhunti	3x20=60	11.337	9.380	16.794	19th May 2020	10:45
28	Therubali	JK Feeder	132kV	0.032	0.001	0.798	12th May 2020	05:30
		Therubali	2x12.5=25	10.767	9.288	12.237	23th May 2020	21:00
29	Umerkote	Umerkote	2x20=40	19.512	12.783	19.952	23th May 2020	21:00
	Balugaon	Khallikote Feeder	33kV	10.804	12.101	16.538	4th May 2020	16:30
	Sonepur	Manamunda Feeder	33kV	9.039	8.162	12.647	1st May 2020	00:00
	Tentulikhunti	Mukhiguda Fdr	33KV	1.612	1.388	2.364	24th May 2020	21:15
	Tentulikhunti	Vento Energy Solar	132 kV	0.080	0.023	0.160	26th May 2020	18:30
30	Boudh	Aditya Birla Solar-I	33kV	0.0000	6.4549	21.3815	6th May 2020	10:45
		SOUTHCO TOTAL ENERGY (MU)		496.6711	303.7324	690.0871		

AUTO TRANSFORMER LOADING FOR THE MONTH OF MAY'2020									
Name of the 220 kV Sub-Station (Feeding Sub-stations/Feeders)	Capacity	Drawal details						REMARKS	
		MVA	Maximum			Minimum			
			MW	Day	Time	MW	Day		Time
ATRI { Banki, Khurda, Chandpur & Argul}	2x160	71.60	23rd May 2020	22:45	0.04	1st May 2020	17:15		
		79.40	23rd May 2020	15:00	0.28	20th May 2020	03:00		
ASKA NEW	2x160	94.04	26th May 2020	12:45	0.16	5th May 2020	17:00		
		86.16	26th May 2020	15:00	0.16	5th May 2020	17:00		
BALASORE 220/132 KV { Balasore, Birla Tyre(I), Ispat Alloy(I), Jaleswar, Jaleswar(T)}	3x160	76.84	31st May 2020	00:00	0.40	20th May 2020	16:00		
		77.08	31st May 2020	00:00	0.40	20th May 2020	13:00		
		80.32	31st May 2020	00:00	0.52	20th May 2020	15:15		
BARGARH 220/132 kV	1x100	17.32	2nd May 2020	16:15	0.40	5th May 2020	22:45		
	1x160	14.12	22nd May 2020	13:15	0.04	7th May 2020	07:15		
BHADRAK 220/132 KV {Bargarh, Ghensh}	1x100	32.52	31st May 2020	00:00	1.32	4th May 2020	11:30		
	1x160	58.04	31st May 2020	00:00	0.04	20th May 2020	16:15		
	1x160	58.20	31st May 2020	00:00	3.52	1st May 2020	14:45		
BHANJANAGAR 220/132 KV { Bhanjanagar, Aska, Phulbani, Ganjam, Chatrapur}	1x160	79.96	26th May 2020	17:15	0.40	28th May 2020	17:45		
	1x160	50.96	20th May 2020	19:30	0.44	28th May 2020	17:45		
BIDANASI 220/132 KV {Bidanasi, Khurda }	1x100	35.64	18th May 2020	22:45	0.04	7th May 2020	07:00		
	1x100	35.56	18th May 2020	22:45	0.04	4th May 2020	18:15		
	1x160	50.44	18th May 2020	22:45	0.04	4th May 2020	06:30		
BOLANGIR (SADAIPALLI) 220/132 KV { Bolangir, Patnagarh, Sonapur, Saintala, Khariar, Barpalli }	2x160	86.68	3rd May 2020	17:00	0.08	7th May 2020	12:30		
		86.68	3rd May 2020	17:00	0.08	7th May 2020	12:30		
		91.24	25th May 2020	17:00	0.04	7th May 2020	11:30		
BUDHIPADAR 220/132 KV { Jharsuguda, Jharsuguda Tr, Cemco(I), MCL, Sundergarh, Brajarajnagar, Rajgangpur}	2x160	103.96	26th May 2020	12:00	15.32	30th May 2020	01:00		
		85.36	27th May 2020	19:15	0.04	2nd May 2020	18:30		
CHANDAKA 220/132 KV { Chandaka, Bhubaneswar, Nimapada, Ransinghpur, Puri, Kesura, Kaipadar Tr. }	1x100	58.92	27th May 2020	15:15	3.40	20th May 2020	07:15		
	1x160	101.48	27th May 2020	15:15	1.20	29th May 2020	04:30		
	1x100	63.44	27th May 2020	15:15	0.44	29th May 2020	04:30		
	1x160	97.76	27th May 2020	15:15	0.96	29th May 2020	04:30		
CUTTACK	1x160	80.44	24th May 2020	23:00	0.08	29th May 2020	05:00		
	1x100	49.12	24th May 2020	23:15	0.24	20th May 2020	05:45		
DUBURI 220/132 KV {Duburi, Bamnipal(I), BRPL, MESCO, Jajpur Road, Kalarangi, Jajpur Town}	1x160	77.60	30th May 2020	02:45	0.04	5th May 2020	05:15		
	1x100	UNDER SHUT DOWN							
	1x100	73.48	27th May 2020	12:45	0.04	3rd May 2020	11:15		
GODA	1x160	0.00	0.00	00:00	0.00	0.00	00:00		
	1x100	0.00	0.00	00:00	0.00	0.00	00:00		
JAYANAGAR 220/132 KV. {Damanjodi(NALCO), Traction S/Ss, Tentulikhunti, Sunabeda, Jayanagar}	1x160	60.76	19th May 2020	21:15	1.56	31st May 2020	00:00		
	1x160	61.28	19th May 2020	21:15	1.56	31st May 2020	00:00		
JODA 220/132 KV { Joda, Tensa, FAP(I), Bolani(I), Nalda Tr., Polasponga, Rairangpur, Bhalulata traction}	3x100	70.52	30th May 2020	18:00	11.36	4th May 2020	09:15	*** - Alternate P/S from Kuche.	
		UNDER SHUT DOWN							
		71.56	30th May 2020	18:00	12.00	4th May 2020	09:15		
KATAPALI 220/132 KV {Chipilima, Bargarh, ACC, Sonapur & Katapali area load.}	1x100	26.28	25th May 2020	09:45	0.04	7th May 2020	09:00	Supported by Burla & Chipilima	
	1x100	26.68	25th May 2020	09:45	0.04	11th May 2020	05:15		
	1x160	39.44	25th May 2020	09:45	0.04	21st May 2020	02:15		
LAPANGA {Kuchinda, Aryan Viraj, Shyam Metalics}	2x160	67.80	23rd May 2020	10:00	1.48	7th May 2020	04:45		
		67.52	23rd May 2020	10:00	1.44	7th May 2020	04:45		
MERAMUNDALI 220/132 kV {Meramundali Traction, Dhenkanal, Navchrome(I), Hind Metal, Aarti, BRG}	3x100	46.96	31st May 2020	00:00	0.52	1st May 2020	16:30		
		45.96	31st May 2020	00:00	0.64	1st May 2020	16:30		
		44.96	31st May 2020	00:00	0.04	1st May 2020	16:30		
Mendhasal { Part area load of Khurda S/S}	2x100	23.40	27th May 2020	07:45	1.20	20th May 2020	01:30		
		51.00	27th May 2020	07:45	3.00	20th May 2020	02:45		
NARENDRAPUR 220/132KV { Narendrapur, NarendrapurTr, Berhampur, Chhatrapur, Ganjam, Balugaon, Digapahandi, Mohana.}	2x160	99.00	31st May 2020	00:00	17.88	6th May 2020	08:30		
		98.84	31st May 2020	00:00	18.52	6th May 2020	08:30		
	1x100	56.76	31st May 2020	00:00	9.88	6th May 2020	08:30		
PARDEEP 220/132 KV { Paradeep, Kendrapada, Pattamundai, Chandikhol, Cuttack, Jagatsinghpur, Phulnakhara}	1x100	53.60	15th May 2020	22:15	0.04	20th May 2020	07:30		
	1x160	89.56	15th May 2020	22:15	4.00	19th May 2020	21:45		
	1x160	89.76	15th May 2020	22:15	1.60	20th May 2020	03:45		
TARKERA 220/132 KV { Rourkela, Rourkela Tr., RSP(I), Chhend , Adhunik Metal, Rajgangpur, OCL(I), Rajgangpur Tr.}	4x100	66.64	26th May 2020	15:30	1.80	30th May 2020	01:45		
		70.20	26th May 2020	15:30	3.00	30th May 2020	01:45		
		65.56	26th May 2020	15:30	1.76	30th May 2020	01:45		
		66.28	26th May 2020	15:30	2.36	30th May 2020	01:45		
THERUVALLI 220/132 KV. {Theruvalli, IMFAL(I), JK(I), Junagarh, Kesinga, Powmex(I), Rayagada. }	2x100	47.08	15th May 2020	21:00	10.60	8th May 2020	10:45	Rayagada & Paralakhemundi can be fed from Machhkund system.	
		49.56	15th May 2020	21:00	10.48	8th May 2020	10:45		
		1x160	76.68	15th May 2020	21:15	15.60	8th May 2020		10:45
TTPS 220/132 KV { Chainpal, FCI (I), Angul, MCL Nandira(I), Rairakhole, Boinda, Kamakhyanagar,	1x160	98.96	30th May 2020	03:00	0.00	19th May 2020	12:15		
	1x160		30th May 2020	03:00	0.00	19th May 2020	12:15		
	2x160								
SAMANGARA { Puri, Nimapara & Konark}									

SYSTEM DISTURBANCE IN THE MONTH OF MAY-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	Therubali	01.05.20	11:24	11:36	00:12	220KV Therubali-Laxmipur Ckt-1	Zone-1, AN, 32.05 KM at Thv end. Zone-1, R-ph E/F, at LXPUR end				
2	Rajgangpur	01.05.20	12:01	12:29	00:28:00	132KV RGP-BUDHIPADAR FEEDER	DP AGT LOC 5.82KM 1A-4058A G-4034A Z1 MT				AT BUDHIPADAR GRID DP Z1 LOC 77.67KM L1-N L1-1.182KA N-944A
3	Kendrapara	01.05.20	12:57	13:45	00:48	132KV KENDRAPARA - PARADEEP CKT-II	TRIPPED ON DP RELAY WITH DIST.26.21KM,R-PH				THERE IS NO L/R
4	Bhadrak	01.05.20	13:43	18:10	04:53	132 KV Bhadrak-Soro	Tripped on Y-phase O/C ,E/F,zone-I,fault magnitude=3940.95,fault dist.=17.485KM,fault loop L to N				
5	Bhadrak	01.05.20	13:43	18:10	04:53	132 KV Bhadrak-Soro	Tripped on Y-phase O/C ,E/F,zone-I,fault magnitude=3940.95,fault dist.=17.485KM,fault loop L to N				
6	N Duburi	01.05.20	13:45	22:33	08:48	220kV N Duburi- Paradeep Ckt-II	Z1, B-E, 5.3kA, 28.9km				
7	J.Road	01.05.20	13:54	15:37	01:43	132 KV Jajpur Road - Kendrapada feeder	DP Relay Operated, IR =2.655KA, IY=16.79A, IB= 16.30A Zone-I, Dist-28.61 KM				20.58 km, Ideal Charged.
8	Lapanga	01.05.20	13:54	14:40	00:46	220KV Lapanga-Katapali Ckt-I	Z1, R Phase, 32.8km				
9	Angul	01.05.20	14:56	15:32	00:36	132 KV Angul-TTPS Fdr	Trig Signal- ZMO2 start, Fault distance- 6.1844 KM, Fault Loop- L2N				
10	Meramundali	01.05.20	15:13	16:01	00:48	220kV Mrdl-Narasingpur Fdr.					
11	Nuapatna	01.05.20	15:13	15:26	00:13	132KV Nuapatna-Khajuriakata- Denkhanal 'T' line	R phase O/C				Fault
12	Choudwar	01.05.20	15:16	15:28	00:12	132KV ICCL DHENKANAL	E/F				
13	Dhenkanal	01.05.20	15:16	16:51	01:53	132 KV ICCL-DHENKANAL FEEDER	B/U relay (E/F), DP relay L2-N, I2=5.11kA, Z-1, 03.02KM				
14	Nuapatna	01.05.20	15:27	15:53	00:26	132KV Nuapatna-Arati feeder	Y phase O/C and E/F				Fault
15	Bolangir(New)	01.05.20	15:29	15:37	00:08	132KV side 160MVA Auto-III	Tripped on earth fault displayed on o/c and e/f relay.				160MVA Auto-I & II were in service
16	Narendrapur	01.05.20	15:45	18:08	02:23:00	Auto-II	PRV.				
17	Choudwar	01.05.20	15:53	16:27	00:34	132KV CHOUDWAE TS ALLOY	O/C 'R' 'Y' & Bph				
18	Nuapatna	01.05.20	16:02	17:03	01:01	132KV Nuapatna-Khajuriakata- Denkhanal 'T' line	E/F				Fault
19	Nuapatna	01.05.20	16:02	17:04	01:02	132KV Nuapatna-Arati feeder	Y phase O/C and E/F				Fault
20	Khajuriakata	01.05.20	16:31	17:03	00:32	K.KATA- NUAPATANA	Tripped in Back-Up Relay				
21	Kendrapara	01.05.20	16:58	17:42	00:44	132KV KENDRAPARA - MARSHAGHAI CKT-I	TRIPPED ON BACKUP E/F WITH M/R.				THERE IS NO L/R
22	Budhipadar	01.05.20	17:54	23:14	05:20	220kV B.Padar-Korba Ckt-II	Z1, R Ph., 23.84kA, 0.3km.				
23	Rajgangpur	01.05.20	17:55	18:06:00	0:11:00	40MVA TFR III	HT SIDE 36AX,36BX,86A,86B LV SIDE 36AX,36BX,86A,86B				
24	Therubali	02.05.20	00:12	00:17	00:05	220KV Therubali-Narendrapur Ckt-2	Zone-1, L2N, 61.48 KM at Thv end. Zone-1,Y-ph E/F at NPUR end				
25	J.Road	02.05.20	05:12	17:36	12:24	132 KV Jajpur Road - Duburi- II feeder	DP Relay Operated, IR =1.87KA, Zone-I, Dist-57.24KM				
26	Therubali	03.05.20	14:37	14:52	00:15	220KV Therubali-Narendrapur Ckt-2	Zone-1, L3N, 146 KM at Thv end. Zone-1,B-ph E/F at NPUR end				
27	Rajgangpur	04.05.20	08:07	09:09:00	01:02:00	132KV RGP-BUDHIPADAR FEEDER	DP AGT LOC 30.43KM A-1986A G-2132A Z1 MT				AT BUDHIPADAR GRID DP Z1 LOC 49.59KM L1-N L1-1925A
28	Joda	04.05.20	09:09	09:35	00:26	132KV JODA-KNPS Fdr.	Tripped only at Joda end. 1) B/U Relay 2) Directional O/C Relay. 3) O/C Relay Tripped. Fault Current-IL1-0.20KA, IL2-0.32KA, IL3-1.59KA				
29	Rengali	04.05.20	09:36	12:20:00	02:44	220KV RENGALI S/Y-TARKERA FDR-II	DP RELAY OPERATED,Z3 START,FAULT ABS DIST=130.08KM ,FAULT REAL DIST=97.07%,LOOP=L1-N,IL1=3607.85A,IN=3730.12A				NA
30	Meramundali	04.05.20	11:12	14:35	03:23	220kV Mrdl-Bhanjanagar Ckt-II	Tripped at Mrdl. End: Z1, L1-N, 2424.2Amp, 11.6km.				
31	Bhadrak	04.05.20	12:17	17:17	04:00	Auto-III	Tripped on 86 A,86B,86AX,86BX,Over flux alarm optd.				
32	Bhadrak	04.05.20	12:17	17:17	04:00	Auto-III	Tripped on 86 A,86B,86AX,86BX,Over flux alarm optd.				
33	Therubali	04.05.20	17:23	18:01	00:38	220KV Therubali-Narendrapur Ckt-2	Zone-1, L3N, 68.49 at Thv end. Zone-1, 160 km CG at NPUR end				
34	Therubali	04.05.20	17:23	18:07	00:44	220KV Therubali-Narendrapur Ckt-1	Zone-1, ABG at Thv end. Zone-1, 162.54km,ABG at NPUR end				
35	Therubali	04.05.20	18:16	18:34	00:18	220KV Therubali-Narendrapur Ckt-2	Zone-1, ABG at Thv end. Zone-1,31.06 km ABG at NPUR end				
36	Therubali	04.05.20	20:42	21:02	00:20	220KV Therubali-Indravati Ckt-1	E/F				
37	Angul	05.05.20	03:40	04:16	00:36	132KV Angul-MCL-I Fdr	Trig signal- Trip, Fault Distance- 3.4906 KM, Fault Loop- L1N				
38	Bhanjanagar	05.05.20	14:28	17:56	03:28	220KV Narasingh pur	CGT,Z-1,D=30.75 km				
39	Atri	05.05.20	17:20	18:08	00:48	220KV Atri- Narendrapur ckt-1	Dist.Protection optd, Bph- N, Ib= 1.4 kA, Zone-1, Dist= 101.4 km				220KV Atri- Narendrapur ckt-2 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
40	Aska New.	05.05.20	17:34	18:30	00:56	132 KV Aska New-Chatrapur	E/F				
41	Bolangir(New)	05.05.20	23:23	23:53	00:30	220KV PGCIL-Sadeipali ckt	Tripped on SOTF and distance protection.				220KV Bargarh(New) ckt was in service
42	Meramundali	05.05.20	23:23	06.05.20 0:03	00:40	220KV Mrdl-Bolangir(PG) Fdr.	Mrdl end: DP, 193.3km, Y-B-E/F, I _y =3.62kA, I _g =3.35kA.				
43	Rajgangpur	06.05.20	01:13	02:38:00	01:25:00	132KV RGP-TARKERA FEEDER-II	DP OPERATED,AGT, FAULT CURRENT-Ia=3041A, Ig=3028A ZI 8.26KM				AT TARKERA GRID DP OPERATED L1N,LOC-18.733KM,ZI.II.1-3.92KA,IN-3.935KA
44	Rajgangpur	06.05.20	01:19	02:43:00	01:24:00	132KV RGP-TARKERA FEEDER-I	DP OPERATED,ZONE-I,AGT, E/F FAULT CURRENT-Ia=1688A, Ig=1891A 10.59KM				AT TARKERA GRID DP OPERATED AGT,LOC-14.95KM,ZI.IA-5.56KA,IN-4.84KA
45	Tarkera	06.05.20	01:22	12:08	10:46:00	132KV Tarkera- Rourkela Ckt-1	DP, R-E, 5.19kA				
46	Tarkera	06.05.20	01:34	11:13	09:39:00	220KV Tarkera-RSP Ckt-2	DP, R-E, 1km, 10.68kA				
47	Joda	06.05.20	02:30	03:06	00:36	132KV JODA- RKL Fdr.	Tripped only at Joda End. Dp Relay Tripped,Zone-01, F.D-11.610KM, F.L-L3-N, Fault Current :- IL1-2A, IL2-3A, IL3-4598A, IN-4600A				
48	N Duburi	06.05.20	03:50	19:54	14:04	400kV N Duburi-Mrdl Ckt-1	O/V				Idle charged from Mrdl upto Loc-23
49	Khajuriaakata	06.05.20	04:31	05:01	00:30	MRDL-K.KATA Line	B-G Fault, Zone-I, Dist- 7.3Kms, If=1.8KA				
50	J.Road	06.05.20	05:34	08:30	02:56	132 KV Jaipur Road - Kendrapada feeder	DP Relay Operated, IR =1.54KA, Zone-II, Dist-57.24 KM				Idle charged
51	Sundargarh	07.05.20	00:06	00:36	00:30:00	132 KV Budhipadar-Sundargarh CKT-II	At-Sundargarh, E/F, IL1=0.04 KA, IL2=0.05 KA,IL3=0.15KA				
52	Sundargarh	07.05.20	01:34	02:40	01:06	132 KV Budhipadar-Sundargarh CKT-II	At-Sundargarh,E/F, IL1=0.05 KA,IL2=0.07 KA,IL3=0.14KA				
53	Bolangir(New)	07.05.20	03:16	03:46	00:30	220KV PGCIL-Sadeipali ckt	Tripped on SOTF and distance protection.				220KV Bargarh(New) ckt was in service
54	Meramundali	07.05.20	03:16	03:59	00:43	220KV Mrdl-Bolangir(PG) Fdr.	Mrdl end: DP, Z2, 11.44km, R-E, IR=1.144KA, I _y =3413.5A, I _g =506.2A.				
55	Bolangir(New)	07.05.20	03:44	07:49	04:05	160MVA Auto-III	Tripped on overfluxing protection displayed on differential protection relay.				160MVA Auto-I & II were in service
56	Sundargarh	07.05.20	09:19	12:01	02:41	132 KV TRF-II & I/C-II	At-Sundargarh, Differential Trip,O/C,Y,B-phase				
57	Bhanjanagar	07.05.20	09:58	10:17	00:19	220KV Narasingh pur	CGT,Z-1,D=30.68KM				
58	Bhanjanagar	07.05.20	10:42	11:53	01:11	220KV Narasingh pur	CGT,Z-1,D=30.69KM				
59	Atri	07.05.20	12:06	12:16	00:10	220KV Atri- Infocity	Direct Trip CH- 1/2 received				Availed supply from Mendhasal end
60	Therubali	08.05.20	11:17	11:32	00:15	220 KV Therubali- Kolab ckt-3	ABN, Z-1, 44.17 KM, at Thy end. B-PH E/f, Z-1.				
61	Kalunga	08.05.20	13:32	13:45	0:13:00	132 KV Kalunga- Budhipadar Line	DP Relay- Tripped Phase- R & Y, Fault-E/F, Zone- 1, Fault location- 65.88 km, Ir-83.69 A, Iy-705.7 A, Ib-104.0 A Backup Relay- Tripped Phase-Y, Fault-E/F, Ir- 83.96 A, Iy-409.4 A, Ib-99.43 A, In-494.3 A				Stood Ok.
62	Rajgangpur	08.05.20	13:32	13:50	00:18:00	132KV RGP-BUDHIPADAR FEEDER	E/F FAULT CURRENT MT				NO TRIPPING AT BUDHIPADAR GRID
63	Bhanjanagar	08.05.20	14:17	14:30	00:13	220KV Narasingh pur	B-E, Z1, 29km				
64	Therubali	08.05.20	14:17	14:32	00:15	220KV Therubali-Bhanjanagar Ckt-2	CN, Z-1, 33.11 km at Thy end. At Bngr end:CN,Z-1,D=129.4KM.				
65	Kalunga	08.05.20	19:30	20:43	1:13:00	132 KV Kalunga- Budhipadar Line	DP Relay- Tripped Phase- R, Fault-E/F, Zone- 1, Fault location- 14.90 km, Ir-4.729 KA, Iy-54.94 A, Ib-240.8 A Backup Relay- Tripped Phase-R, Fault-E/F, Ir- 4.929 KA, Iy-58.81 A, Ib-243.1 A, In-5.213 KA				Stood Ok.
66	Bhanjanagar	08.05.20	21:14	21:59	00:45	220KV Narasingh pur	CGT,Z-1,D=30.54KM				
67	Therubali	08.05.20	21:22	21:34	00:12	220KV Therubali-Bhanjanagar Ckt-1	CN, Z-1, 100.4 km at Thy end. At Bngr end: CGT,Z-1,D=67.69KM.				
68	Joda	08.05.20	21:36	21:52	00:16	220KV JODA-TTPS CKT-I	Tripped at Both End. AT Joda end -Dp Relay Tripped,Zone-01, F.D-93.98KM, F.L-L1-L3, Fault Current :- IL1-2278.49A, IL2-261.51A, IL3-1129.94A, IN-1387.43A				
69	Kamakhyanagar	08.05.20	22:28	22:59	00:31	132 KV Transformer-II	O/C				Thunder
70	Kamakhyanagar	08.05.20	22:28	23:00	00:32	132 KV Transformer -III	O/C				Thunder
71	Rajgangpur	09.05.20	08:49	12:54:00	04:05:00	132KV RGP-TARKERA CKT-I	DP OPERATED CGT ZI LOC 1.71KM IC-5248A IG-5346A				AT TARKERA GRID B PHASE E/F
72	Joda	09.05.20	11:15	11:35	00:20	220KV JODA-TTPS CKT-I	Tripped at Both End . AT Joda end -Dp Relay Tripped,Zone-01, F.D-108.58KM, F.L-L2-L3, Fault Current :- IL1-66.47A, IL2-2040.26A, IL3-2088.18A, IN-2.06A				
73	Meramundali	10.05.20	14:01	19:01	05:00	400kV Mrdl-Lapanga Ckt-1	At Mrdl end: L3-E, 169.1km, 2.56kA.				
74	Angul	10.05.20	16:15	16:33	00:18	132KV Angul-MCL I Fdr	E/F				

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
75	Balasure	10.05.20	16:31	17:26	00:55	220KV Balasure-New Duburi feeder	At Balasure end: DP RELAY-Gen Trip. Trip-R, Z-1, L1-N, 103.85Km, Fault Current-1.459KA				During the time of tripping, there was heavy lightning & rain at New Duburi end
76	Kalunga	10.05.20	16:55	18:34	1:39:00	132 KV Kalunga- Budhipadar Line	DP Relay- Tripped Phase- R, Fault- E/F, Zone- 1, Fault location- 28.71 km, Ir-3.602 KA, Iy-24.81 A, Ib-185.2 A Backup Relay- Tripped Phase-R, Fault-E/F, Ir- 3.604 KA, Iy-23.59 A, Ib-191.9 A, In-3.808 KA				Stood Ok.
77	Sundargarh	10.05.20	17:12	17:18	00:06:00	132 KV Budhipadar-Sundargarh CKT-II	At-Sundargarh, O/C,R,Y,B-phase				
78	Khajuriakata	10.05.20	17:23	17:33	00:10	K.KATA- NUAPATANA	B-G Fault, Zone- I, Dist- 46.1Kms, If=1.48KA				
79	Khajuriakata	10.05.20	17:47	19:10	01:23	K.KATA- NUAPATANA	B-G Fault, Zone- I, Dist- 46.2Kms, If=1.48KA				
80	Sundargarh	10.05.20	17:47	17:52	00:05:00	132 KV Budhipadar-Sundargarh CKT-II	At-Sundargarh, O/C,R,Y-phase				
81	Budhipadar	10.05.20	17:52	11.05.20 14:04	20:12	220kV Budhipadar-Lapanga Ckt-1	R Ph, E/F, Z2, 15.18km, 11.55kA.				Tripped at B.Padar end only. Y Ph. Jumper snapped at Loc-54
82	Bidanasi	10.05.20	18:24	19:02	00:38	220KV Bidanasi-Cuttack Ckt-II	Tripped on O/C Y & B-phase.				
83	Dhenkanal	10.05.20	17:23	17:36	00:13	132KV DKL-NPATANA-KHAJURIKATA "T- LINE"	DP relay-L3-N, I3=2.073kA, 26.95KM				
84	Dhenkanal	10.05.20	17:47	19:12	01:25	132KV DKL-NPATANA-KHAJURIKATA "T- LINE"	DP relay-L3-N, I3=2.073kA, 26.95KM				
85	Mania	11.05.20	05:19	05:46	00:27	132 KV SIDE TRANSFORMER II	R-B LINE FAULT				
86	Angul	11.05.20	10:05	10:08	00:03	132 KV Angul-MCL- II Fdr	E/F				
87	Tentulikhunti	11.05.20	19:44	19:47	00:03:00	TRANSFORMER-3	Over current & E/F				Over current & E/F
88	Angul	12.05.20	10:02	10:18	00:16	40 MVA TRF-II	Master trip				
89	Therubali	12.05.20	13:48	14:01	00:13	220KV Therubali-Indrabati Ckt-1	CN, Z-1, 54.67 km at Thv end. BG, Z-1 at Ind end.				
90	Samabalpur	13.05.20	07:40	08:30	00:50	132kV Burla-Sambalpur feeder.					
91	Budhipadar	13.05.20	17:06	19:02	01:56	220kV Budhipadar-Tarkera Ckt-1	At B.padar end: DP, Z1, B-N, 79.9km, 2.22kA. At Tarkera end: Z1, B-N, 18.1km, 5.39kA.				
92	Nuapatna	14.05.20	08:20	13:22	05:02	132KV Nuapatna-Arati feeder	E/F				Non closing of its own breaker
93	Choudwar	14.05.20	08:20	08:23	00:04	132KV CHOUDWAR- TS ALLOY	O/C Bph				
94	Barpali	14.05.20	09:30	09:33	00:03	132KV TRF-2	O/C				O/C
95	Joda	14.05.20	15:22	16:03	00:41	220KV JODA-TTPS CKT-II	Tripped at Both End . AT Joda end -Dp Relay Tripped,Zone-01, F.D. 34.66KM, F.L-L1-N, Fault Current :- IL1-2819.18A, IL2-102.59A, IL3-234.74A, IN-3151A				
96	Keonjhar	14.05.20	16:40	18:35	01:55	220kV Keonjhar-Keonjhar PG Feeder	Tripped at Keonjhar PG end				Other 220kV Keonjhar-Keonjhar PG Feeder was in service.
97	Angul	14.05.20	17:25	17:28	00:03	40 MVA TRF-II	O/C				
98	Berhampur	15.05.20	06:19	06:37	00:18	132kV berhampur-Digapahandi Fdr	DP relay, Zone-1, Digapahandi end 19.07KM				
99	Joda	15.05.20	09:42	10:25	00:43	220KV JODA-TTPS CKT-II	Tripped at Both End . AT Joda end -B/U Relay Tripped, Fault Current :- IL1-220.5A, IL2-109.5A, IL3-110.10A, IN-360.6A				
100	Bolangir(New)	15.05.20	11:12	11:27	00:15	220KV Barghar(New)-Sadeipali ckt	Tripped on distance protection and over voltage stage 1/2 operated.				220KV PGCIL ckt was in service
101	Rajgangpur	15.05.20	15:53	16:51:00	00:58:00	132KV RGP-BUDHIPADAR FEEDER	DP OPERATED CGT ZONE-1 LOC 18.44KM IC-1767A IG-1923A				HEAVY LIGHTENING AND RAINFALL
102	Kalunga	15.05.20	15:54	16:03	0:09:00	132 KV Kalunga- Budhipadar Line	DP Relay- No indication Backup Relay- Tripped Phase-Y & B, Fault- E/F, Ir- 152.4 A, Iy- 228.0 A, Ib-216.4 A, In-580.2 A				Stood Ok.
103	Rajgangpur	15.05.20	16:05	18:21:00	02:16:00	132KV RGP-TARKERA CKT-I	At Rgp end: DP OPERATED AGT IA-4204A,IG-4710, ZONE-1 LOC 05.56KM At Tarkera end: E/F, Z1, R Phase, 4.3kA.				
104	Tarkera	15.05.20	16:40	23:04	06:24	220kV Tarkera - Rourkela PG Ckt-1	At Rourkela PG end: E/F, Z1, R-Phase, 11.09km, 11.89kA				Tripped at Rourkela PG end only. L.C taken by Line sd Rkl.
105	Tarkera	16.05.20	02:38	11:45	09:07	220 kV Tarkera RSP Ckt II					
106	Rajgangpur	16.05.20	09:37	11:42:00	02:05:00	132KV RGP-TARKERA CKT-I	DP OPERATED BGT ZONE-1 LOC 2.58KM IB-4809A IG-5089A				BAD WHEATHER
107	Therubali	16.05.20	12:39	13:09	00:30	220KV Therubali-Indrabati Ckt-2	BN, Z-2, 19.69 km AT Thv end. BN, Z-1 at Ind end.				
108	Therubali	16.05.20	13:08	17:13	03:57	220 KV Therubali- Kolab ckt-3	BN, Z-2, 63.8 km AT Thv end. BN, Z-1 at Kolab end.				
109	Angul	16.05.20	13:09	13:24	00:15	40 MVA TRF-I	O/C				
110	Angul	16.05.20	13:09	13:21	00:12	40 MVA TRF-II	O/C				
111	Joda	16.05.20	13:58	14:26	00:28	220KV JODA-TTPS CKT-II	Tripped at Both End .AT Joda end -B/U Relay Tripped, Fault Current :- IL1-588.3A, IL2-172.1A, IL3-197.4A, IN-790.4A				
112	Podagada	16.05.20	15:09	15:18	00:09	132KV Podagada-Rayagada feeder	Auto-tripped, R, B Phase fault, Z1 Trip				
113	Balimela	16.05.20	16:25	16:35:00	00:10	20 mva Trf 2 (LV Side)	Over Current				
114	Joda	16.05.20	17:03	17:59	00:56	132KV JODA-RKL Fdr	Tripped at Joda End . AT Joda end -B/U Relay Tripped, Fault Current :- IL1-4.41A, IL2-0KA, IL3-4.86KA.				
115	Malkangiri	16.05.20	17:17	17:24	00:07	220 KV Baalimela Incomer Circuit-1	SOTF OPTD				

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116	Angul	16.05.20	19:23	19:33	00:10	132KV Angul-MCL-II Fdr	Trig signal- ZMO2 Start, Fault distance- 3.3428 KM, Fault Loop- L1N				
117	Meramundali	16.05.20	19:28	20:21	00:53	400kV Meramundali-JSPL Ckt-II					
118	Joda	16.05.20	19:32	19:41	00:09	220KV JODA-TTPS CKT-II	Tripped at Both End . AT Joda end -Dp Relay Tripped,Zone-02, F.D- 131.55KM, F.L-L2-N, Fault Current > IL1-237.67A, IL2- 914.80A, IL3-148.03A, IN-1021.07A				
119	Angul	16.05.20	20:10	20:20	00:10	40 MVA TRF-II	O/C				
120	Meramundali	16.05.20	20:20	21:37	01:17	132kV Meramundali-Dhenkanal feeder	E/F, Z1, B Phase, 14.5km, 5.38kA.				
121	Khajuriakata	16.05.20	20:22	20:25	00:03	K KATA- NUAPATANA	Back-Up Relay Operated. If= 0.97KA				
122	Nuapatna	16.05.20	20:22	21:09	00:47	12.5MVA Transformer 3	R phase O/C				Fault
123	Therubali	17.05.20	11:20	11:45	00:25	220 KV Therubali- Kolab ckt-3	ABN, Z-2, 64.8 km AT Thv end. BN, Z-1 at Kolab end.				
124	Atri	17.05.20	11:23	12:08	00:45	132KV Atri- Argul ckt-2	Dist.Protection optd, Y ph, Bph, IyF= 2.69 kA IbF= 2.54 kA, Zone-2/3 multiphase fault, Dist= 41.9 km				Khurda Availed supply from Mendhasal end
125	Atri	17.05.20	12:35	13:12	00:37	132KV Atri- Argul ckt-2	Dist.Protection optd, Y ph, Bph, IyF= 3.35 kA IbF= 3.34 kA, Dist= 26 km				Khurda Availed supply from Mendhasal end
126	Budhipadar	17.05.20	12:58	18:24	05:26	220kV B.Padar- Korba Ckt-II	At B.Padar end: Z1, L3-E, 32.3km, 3.47kA.				
127	Ninapara	17.05.20	11:03	11:13	00:10	132KV Ninapara-Chandaka Feeder	DP Relay Z-1, Distance 30.91KM, Ia 2.93KA Rph-E				
128	Aska New.	18.05.20	11:01	11:29	00:28	132 KV Aska New-Chatrapur	MAS RLY OPTD				
129	Kalunga	18.05.20	12:09	12:20	0:11:00	132 KV Kalunga- Budhipadar Line	DP Relay- Tripped Phase- Y, Fault-E/F, Zone- 1, Fault location- 53.92 km, Ir-102.1 A, Iy-1.926 KA, Ib-131.8 A Backup Relay- Tripped Phase-Y, Fault-E/F, Ir- 98.35 A, Iy-1.921 KA, Ib-94.14 A, In-2.046 KA				
130	Kalunga	18.05.20	16:18	16:58	0:40:00	132 KV Kalunga- Budhipadar Line	DP Relay- Tripped Phase- B, Fault-E/F, Zone- 1, Fault location- 75.59 km, Ir-89.13A, Iy-121.1 A, Ib-1.292 KA Backup Relay- Tripped Phase-B, Fault-E/F, Ir- 88.65 A, Iy-120.9 A, Ib-1.302 KA, In-1.488 KA				Stood Ok.
131	Berhampur	18.05.20	17:54	18:36	00:42	132kV Narendrapur-Berhampur D/C Line	DP relay, zone-1, 7.7KM from Berhampur end				
132	Infociv-li	19.05.20	04:55	05:55	01:00	40MVA 220/33KV Trafo-II	Due to fault in 33KV Infosiv-II feeder				
133	Barpali	19.05.20	09:30	09:32	00:02	132KV TRF-2	O/C				O/C
134	N Duburi	19.05.20	17:47	18:57	01:10	220kV N Duburi-Paradeep Ckt-I	At paradeep end: B Phase, 75.2km				
135	Balimela	19.05.20	18:15	18:20	00:05	20 mva Tfr 2 (LV Side)	Over Current				
136	Chaudvar	19.05.20	20:04	20:07	00:03	TRF NO-III	E/F				
137	Khajuriakata	19.05.20	22:26	22:39	00:13	K KATA- NUAPATANA	B-G Fault, Zone-I, Dist- 46.0Kms, If=1.5KA				
138	Angul	19.05.20	23:40	23:44	00:04	40 MVA TRF-II	O/C				
139	Dhenkanal	19.05.20	22:27	22:40	00:13	132KV DKL-NPATANA-KHAJURIKATA "T- LINE"	DP relayL3-N, I3=1.538kA, Z-1, 30KM				
140	Olaver	20.05.20	00:29	09:48	09:19	132kV Olaver-Chandbali Ckt-I	O/V				Due cyclone AMPHAN
141	Kendrapara	20.05.20	00:30	18:27	17:57	132/33KV 40MVA TRF-II	132 KV SIDE TRIPPED ON OVER FLUXING WITH M/R AND 33 SIDE TRIPPED ON M/R.				THERE IS NO L/R
142	N Duburi	20.05.20	02:42	21.05.20 11:23	32:41:00	220kV N Duburi-Balasore Feeder	Snapping of Y & B Phase conductor at Loc. No-395.				
143	Aska New.	20.05.20	04:22	05:32	01:10	160 MVA AUTO TRF-2	TRIPED ON OVER FLUXING				
144	J.Road	20.05.20	05:17	16:55	11:38	132 KV Jajpur Road - Anandapur-I feeder	DP relay Zone-I. fault current- IB= 1.764KA, Z1, 27.07KM				Idle charged
145	Aska New.	20.05.20	05:45	06:29	00:44	160 MVA AUTO TRF-2	TRIPED ON OVER FLUXING				
146	Kendrapara	20.05.20	05:49	14:07	08:18	132KV KENDRAPARA - SALIPUR S/C LINE	TRIPPED ON DP RELAY WITH DIST.00KM,B-PH				THERE IS NO L/R
147	Cuttack	20.05.20	06:19	06:42	00:23	132 KV CTC- JSR Line	Tripped on O/C in R-Y-B ph,E/F, IL1=0.01KA,IL2=2.36KA,IL3=0.01KA				Jagatsinghpur availing p/s from Paradeep end
148	Angul	20.05.20	07:34	08:02	00:28	132KV Angul- Boinda Fdr	Trig signal- Trip, Fault Distance-17.954 KM, Fault loop-L2N				
149	Cuttack	20.05.20	08:35	13:07	04:32	132 KV CTC- JSR Line	Tripped on O/C in R-Y-B ph,E/F, IL1=0.01KA,IL2=2.34KA,IL3=0.01KA				Jagatsinghpur availing p/s from Paradeep end
150	Soro	20.05.20	08:35	15:38	07:03	40 MVA transformer-III	PRV Optd, M/T Realy				
151	N Duburi	20.05.20	08:53	12:57	04:04	220kV N Duburi-Emami feeder	At N Duburi end: DP, Z1, B-E, 4.45kA, 4.3km.				
152	Aska New.	20.05.20	10:13	11:51	01:38	160 MVA AUTO TRF-2	TRIPED ON OVER FLUXING				
153	Meramundali	20.05.20	10:13	15:27	05:14	400kV Meramundali-Mendhasal Ckt-I	At Mrdl end: DTT At Mddl end: O/V.				
154	N Duburi	20.05.20	10:13	22.05.20 20:18	58:05:00	220kV N Duburi-JSPL Ckt-II	E/F, Y Ph, 5.5km, 12.3kA.				
155	Kamachyanagar	20.05.20	11:43	21.05.2020 8:36	20:53	132 KV Transformer -III	Buchholz				
156	Bhadrak	20.05.20	02:24	13:00	10:36	132 KV Bhadrak-DPCL-I	Tripped on zone-I,Dist=52.99 km,IA=1.788 KA,IB=322.9A,IC=352.3A				
157	Bhadrak	20.05.20	02:24	13:00	10:36	132 KV Bhadrak-DPCL-I	Tripped on zone-I,Dist=52.99 km,IA=1.788 KA,IB=322.9A,IC=352.3A				
158	Kendrapara	21.05.20	06:58	07:43	00:45	132KV KENDRAPARA - PARADEEP CKT-II	TRIPPED ON BACKUP E/F WITH M/R.				THERE IS NO L/R

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159	Kendrapara	21.05.20	06:58	07:18	00:20	132KV KENDRAPARA - MARSHAGHAI CKT-I	TRIPPED ON BACKUP E/F WITH M/R.				THERE IS NO L/R
160	Barpali	21.05.20	09:12	09:14	00:02	132KV TRF-2	O/C				O/C
161	Bhadrak	21.05.20	14:00	14:05	00:05	220 KV Bhadrak-Balasore	Tripped on group A.group B trip relay				
162	Bhadrak	21.05.20	14:00	14:05	00:05	220 KV Bhadrak-Balasore	Tripped on group A.group B trip relay				
163	Budhipadar	22.05.20	11:32	13:21	01:49	220kV Budhipadar-Tarkera Ckt-II	Budhipadar end: E/F, B Ph, Z1, 80.1km, 1.94kA Tarkera end: Z1, 27.6km, 3.28kA.				Tripped at both end.
164	Meramundali	22.05.20	11:49	19:24	07:35	400kV Mrdl-Lapanga Ckt-II	Tripped from both ends. At Mrdl end: E/F, Y Ph, 4.22kA, 99.7km. At Lapanga end: E/F, Y Ph, 3.3kA, 116.7km.				
165	Kalunga	22.05.20	12:20	17:40	05:20	132 KV Kalunga- Budhipadar Line	DP Relay- Tripped Phase- Y, Fault-SOTF TOR, Zone- None, Fault location- None, Ir-21.15 A, ly-2.289 KA, lb-21.42 A Backup Relay- Tripped Phase-Y, Fault-E/F, Ir- 21.59 A, ly-2.288 KA, lb-22.92 A, ln-2.308 KA				Stood Ok.
166	Kalunga	22.05.20	12:46	12:59	00:13	132 KV Kalunga- Budhipadar Line	DP Relay- Tripped Phase- Y, Fault-E/F, Zone- 1, Fault location- 53.97 km, Ir-134.0 A, ly-1.904 KA, lb-156.7 A Backup Relay- Tripped Phase-Y, Fault-E/F, Ir- 135.5 A, ly-1.902 KA, lb-157.6 A, ln-2.038 KA				
167	Bolangir(New)	22.05.20	13:12	13:27	00:15	220KV Bargarh(New)-Sadeipali ckt	Tripped on distance protection and over voltage stage 1/2 operated.				
168	Bolangir(New)	22.05.20	13:53	17:40	03:47	220KV Bargarh(New)-Sadeipali ckt	At Sadeipali end: DP, Z1, Bph-E, 10.3km, 2.82kA. At Bargarh N end: DP, Z1, B Ph-E, 43.67km, 2.65kA.				
169	Mohana	22.05.20	16:12	18:40	02:28	132kV Mohana-Akhusing	E/F.				Mohana was availing P/S from Disapahandi Grid s/s.
170	Kalunga	23.05.20	12:59	17:09	4:10:00	132 KV Kalunga- Budhipadar Line	DP Relay- Tripped Phase- Y, Fault-SOTF TOR, Zone- None, Fault location- None, Ir-20.04 A, ly-2.255 KA, lb-22.82 A Backup Relay- Tripped Phase-Y, Fault-E/F, Ir- 21.70 A, ly-2.257 KA, lb-23.77 A, ln-2.277 KA				Stood Ok.
171	Meramundali	23.05.20	13:01	25.05.20 20:10:00	55:09:00	400kV Mrdl-Lapanga Ckt-II	At Mrdl end: Y-E, 112km, 4.15kA At Lapanga end: Y-E, 133.2km, 3.274kA.				
172	Rajgangpur	23.05.20	18:40	24.05.20 21:41:00	03:01	132KV RGP-TARKERA CKT-II	DP OPERATED AGT IA-5825A,IG-6181A, ZONE-1 LOC-0.9KM,				R-PHASE 132KV CT BURST AT RGP GRID SS,LC TAKEN FOR CT REPLACEMENT
173	Rajgangpur	23.05.20	18:40	19:31:00	00:51:00	132KV RGP-TARKERA CKT-I	E/F				R-PHASE 132KV CT BURST AT RGP GRID SS
174	Nuapatna	23.05.20	20:44	20:56	00:12	12.5MVA Transformer 3	O/C and E/F.				
175	Dhenkanal	23.05.20	20:44	21:05	00:21	132 kV ICCL-DHENKANAL FEEDER	Only B/U relay operated (O/C)				
176	Dhenkanal	23.05.20	20:44	06:44	10:00	132KV DKL-NPATANA-KHAJURIAKATA "T- LINE"	DP relay:L1-N, II=1.12kA, 43.86KM				
177	Kalunga	24.05.20	11:11	17:10	5:59:00	132 KV Kalunga- Budhipadar Line	DP Relay- Tripped Phase- Y, Fault-E/F, Zone- 1, Fault location- 54.61 km, Ir-95.55 A, ly-1.938 KA, lb-120.8 A Backup Relay- Tripped Phase-Y, Fault-E/F, Ir- 97.21 A, ly-1.932 KA, lb-122.5 A, ln-2.044 KA				Stood Ok.
178	Jharsuguda	24.05.20	15:32	16:11	00:38	132 kv jharsuguda-b padarekt-ii	Due to CT burst at lapanga grid switchyard.				
179	Jharsuguda	24.05.20	16:36	19:56	03:20	132 kv B padar-jsg ckt-ii	Snapped jumpering atloc no-167				
180	Angul	25.05.20	00:40	00:46	00:06	40 MVA TRF-I	Master trip				
181	Angul	25.05.20	00:40	00:56	00:16	40 MVA TRF-II	Master trip				
182	Angul	25.05.20	02:25	02:30	00:05	40 MVA TRF-I	Master trip				
183	Kalunga	25.05.20	11:27	17:14	5:47:00	132 KV Kalunga- Budhipadar Line	DP Relay- Tripped Phase- Y, Fault-E/F, Zone- 1, Fault location- 54.12 km, Ir-98.72 A, ly-1.921 KA, lb-122.7 A Backup Relay- Tripped Phase-Y, Fault-E/F, Ir- 84.55 A, ly-1.915 KA, lb-125.0 A, ln-2.018 KA				
184	Rengali	25.05.20	13:42	26.05.20 12:52:00	11:10	220KV RENGALI S/Y-RPH FDR-I	NUMERICAL B/U RELAY OPERATED, IA=5760.3A,IB=1486.4A,IC=55.1A,IN=0.03A,IG=4509.59A				NA
185	Kalunga	26.05.20	11:38	17:14	5:36:00	132 KV Kalunga- Budhipadar Line	DP Relay- Tripped Phase- Y, Fault-SOTF TOR, Zone- None, Fault location- None, Ir-20.94 A, ly-2.280 KA, lb-24.60 A Backup Relay- Tripped Phase-Y, Fault-E/F, Ir- 21.39 A, ly-2.319 KA, lb-22.82 A, ln-2.339 KA				Stood Ok.
186	Joda	26.05.20	14:04	14:18	00:14	220KV JODA-TTPS CKT-I	Tripped at Both End. At Joda end -1)B/U Relay Tripped, 2)Directional O/C Tripped. Fault Current :- IL1-134.7A, IL2-151.6A, IL3-342.1A, IN-408.9A				

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
187	Therubali	26.05.20	14:09	14:23	00:14	220KV Therubali-Bhanianagar Ckt-I	AN, Z-1, 113.1 km at Thv end, AG, Z-1 at Bngr end.				
188	Chandikhoh	26.05.2020	16:45	16:50	00:05	132/33KV 20MVA TFR-2	Snake Fault in 33KV Main Bus				
189	Chandikhoh	26.05.2020	16:45	17:07	00:22	132/33KV 20MVA TFR-3	Snake Fault in 33KV Main Bus				
190	Kendrapara	28.05.20	07:32	07:40	00:08	132KV KENDRAPARA - PARADEEP CKT-II	TRIPPED ON DP RELAY WITH DIST. 11.91KM,B-PH				THERE IS NO L/R
191	Joda	28.05.20	08:20	14:01	05:41	220KV JODA-TTPS CKT-II	Tripped at Both End. AT Joda end -Dp Relay Tripped,Zone-01, F.D- 34.834KM, F.L-L1-N, Fault Current :- IL1-2887.44A, IL2-177.34A, IL3-159.76A, IN-3226.70A				
192	Kalunga	28.05.20	12:25	19:02	6:37:00	132 KV Kalunga- Budhipadar Line	DP Relay- Tripped Phase- Y, Fault-E/F, Zone- 1, Fault location- 54.50 km, Ir-81.92 A, Iy-1.926 KA, Ib-111.8 A Backup Relay- Tripped Phase-Y, Fault-E/F, Ir- 61.68 A, Iy-1.921 KA, Ib-113.9 A, In-1.999 KA				Stood Ok.
193	Kalunga	27.05.20	12:52	13:10	0:18:00	132 KV Kalunga- Budhipadar Line	DP Relay- Tripped Phase- Y, Fault-E/F, Zone- 1, Fault location- 54.62 km, Ir-92.79 A, Iy-1.884 KA, Ib-121 A Backup Relay- Tripped Phase-Y, Fault-E/F, Ir- 70.17 A, Iy-1.902 KA, Ib-123.6 A, In-1.995 KA				Stood Ok.
194	Meramundali	27.05.20	13:42	19:40	05:58	400kV Mrdl-Lapanga Ckt-II	At Mrdl end: R-N, 2.55kA, Z1, 169.1km, At Lapanga end: R-E, 7.4kA, Z3, 9km				
195	Rajgangpur	28.05.20	15:59	17:41:00	01:42:00	132KV RGP-BUDHIPADAR FEEDER	DP OPERATED AGT 1A-1274A,IG-1356A, ZONE-1 LOC-56.67 KM,				AT BUDHIPADAR DP OPERATED L1N IL1-3.918KA., ZONE-1 LOC-20.98KM.
196	Bolangir	28.05.20	16:22	16:40	00:18	132 KV Bolangir -Sadeipali Ckt-1	E/F				
197	Bhanjanagar	28.05.20	17:21	18:45	01:24	220KV Narasinah pur	CGT,Z-1,D=15.25KM				
198	Tarkera	28.05.20	18:10	29.05.20 15:09	20:59	220 kV Tarkera RSP Ckt IV	At Tarkera end: 18.47kA.				
199	Rajgangpur	28.05.20	18:16	20:13:00	01:57:00	132KV RGP-TARKERA CKT-I	DP OPERATED AGT 1A-1878A,IG-1584A, ZONE-1 LOC-19.36 KM,				CHARGING DELAYED DUE TO BAD WEATHER
200	Atri	28.05.20	18:47	19:00	00:13	220KV Atri- Narendrapur ckt-2	Dist.Protection optd, Bph- N, Ibf= 2.212 kA, Zone-1, Dist= 68.68 km				220KV Atri- Narendrapur ckt-1 was in service
201	Rajgangpur	28.05.20	19:26	29.05.20 11:35:00	16:09	132/33KV TRANSFORMER-II	O/C&E/F IN R&Y-PHASE., LC TAKEN FOR LA REPLACEMENT				33KV LA BURST OF TRANSFORMER-II Y-PHASE POWER FAILURE
202	Rajgangpur	28.05.20	19:26	20:10:00	00:44:00	132/33KV TRANSFORMER-III	O/C (50/51P)&E/F IN R&Y-PHASE.				33KV LA BURST OF TRANSFORMER-II Y-PHASE POWER FAILURE
203	Kalunga	28.05.20	19:30	20:43	1:13:00	132 KV Kalunga- Budhipadar Line	DP Relay- Tripped Phase- Y, Fault-E/F, Zone- 1, Fault location- 56.51 km, Ir-38.41 A, Iy-1.987 KA, Ib-100.1 A Backup Relay- Tripped Phase-Y, Fault-E/F, Ir- 39.71 A, Iy-1.981 KA, Ib-99.39 A, In-2.1 KA				Stood Ok.
204	Atri	28.05.20	19:32	19:56	00:24	220KV Atri- Narendrapur ckt-2	Dist.Protection optd, Bph- N, Ibf= 1.773 kA, Zone-1, Dist= 94.18 km				220KV Atri- Narendrapur ckt-1 was in service
205	Budhipadar	28.05.20	19:34	21:03	01:29	220kV Budhipadar-Tarkera Ckt-I	Budhipadar end: E/F, B Ph, Z1, 86.1km, 1.92KA				Tripped at both end.
206	Joda	28.05.20	19:52	20:24	00:32	220KV JODA-TTPS CKT-II	Tripped at Both End .AT Joda end -Dp Relay Tripped,Zone-01, F.D- 83.86KM, F.L-L3-N, Fault Current :- IL1-150.78A, IL2-553.42A, IL3-1134.15A, IN-1584.03A				
207	Rajgangpur	28.05.20	20:16	22:18:00	02:02:00	132KV RGP-TARKERA CKT-I	E/F				DUE TO 33KV SUNDARGARH FAULT AND 33KV POWER FAILURE. (NO TRIPPING AT TARKERA END)
208	Tarkera	28.05.20	20:52	23:32	02:40	220kV Tarkera- Bonai Fdr	L1-N, 6.8kA.				
209	Tarkera	28.05.20	20:52	29.05.20 17:41	20:49	220kV Tarkera- Rengali Fdr	L2-N, 5.8kA.				
210	Rengali	28.05.20	22:50	23:42	00:52	220KV RENGALI S/Y-TARKERA FDR-II	NUMERICAL B/U RELAY OPERATED,IA=57.7A,IB=1557.0A,IC=53.5A,IN=1083.69A,IG=160.5.96A				NA
211	Joda	28.05.20	23:42	23:59	00:17	220KV JODA-TTPS CKT-II	Tripped at Both End .AT Joda end -Dp Relay Tripped,Zone-01, F.D- 34.23KM, F.L-L1-N, Fault Current :- IL1-2865.94A, IL2-103.16A, IL3-298.21A, IN-3219.78A				
212	Rengali	28.05.20	23:42	29.05.20 17:41:00	17:59	220KV RENGALI S/Y-TARKERA FDR-II	NUMERICAL B/U RELAY OPERATED,IA=58.1A,IB=1320.0A,IC=66.0A,IN=1147.09A,IG=139.1.42A				NA
213	Kamakhyanagar	29.05.20	02:33	03:16	00:43	132 KV Transformer-II	Tripped on Master trip-86				Thunder & lightning
214	Kamakhyanagar	29.05.20	02:33	03:40	01:07	132 KV Transformer-III	Tripped on Master trip-86				Thunder & lightning, Charging delay due to verification of E&MR
215	Kamakhyanagar	29.05.20	02:33	03:11	00:38	132 KV K. Nagar- Duburi	Tripped on Master trip-86				Thunder & lightning
216	Bidanasi	29.05.20	03:29	03:35	00:06	220KV Bidanasi-Cuttack Ckt-II	Tripped on Group-A/B trip, M/R at Bidanasi end				
217	Cuttack	29.05.20	04:04	18:10	14:06	133 KV CTC- JSPR Line	O/C in R-Y ph and E/F. No DP relay optd.				The feeder was charged at 05:35 hrs but didn't stand.tripped immediately on O/C in R-Y-ph. DP relay=Zone-1,R-Y-B Ph trip,pre fault max =24.21km

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
218	Bidanasi	29.05.20	04:55	05:07	00:12	220KV Bidanasi-Cuttack Ckt-II	Tripped on Group-A/B trip, M/R at Bidanasi end				
219	Kalunga	29.05.20	09:41	17:38	07:57	132 KV Kalunga- Budhipadar Line	DP Relay- Tripped Phase- Y, Fault-E/F, Zone- 1, Fault location- 54.23 km, Ir-94.77 A, Iy-1.961 KA, Ib-112.6 A Backup Relay- Tripped Phase-Y, Fault-E/F, Ir- 52.96 A, Iy-1.957 KA, Ib-99.18 A, In-2.050 KA				
220	Samangara	29.05.20	10:46	13:33	02:47	20 MVA POWER TFR- I	O/C,E/F,R-Ph Pickup, 86 Relay OPTD.				TRIP
221	Samangara	29.05.20	10:46	13:36	02:50	20 MVA POWER TFR- II	67N, 67A, R-ph Pick up 86 Relay OPTD.				TRIP
222	Therubali	29.05.20	15:50	16:01	00:11	220KV Therubali-Bhanjanagar Ckt-1	CN, Z-1, 33.44 km at Thv end. CN, Z-2 at Bnrg end.				
223	Therubali	29.05.20	15:50	16:02	00:12	220KV Therubali-Bhanjanagar Ckt-2	CN, Z-1, 25.74 km at Thv end. CN, Z-2 at Bnrg end.				
224	Therubali	29.05.20	15:50	16:06	00:16	220 KV Therubali- Kolab ckt-3	ABN, Z-1, 33.4 km at Thv end.				
225	Cuttack	29.05.20	16:50	16:54	00:04	220KV Bidanasi-CTC-II					
226	Budhipadar	29.05.20	21:40	30.05.20 01:51	04:11	220kV B.Padar-Korba Ckt-2.	At B Padar end: DP, Z2, L1-E, I11=1.24kA. At Korba end: DP, Z1, R-E, Ir=6.8kA, 18.45km.				
227	Rajgangpur	30.05.20	00:10	01:39:00	01:29:00	132KV RGP-BUDHIPADAR FEEDER	DP OPERATED CGT ZONE-1 LOC-17.80KM IC-1838A IG-2050A				BAD WEATHER HEAVY LIGHTENING
228	Rajgangpur	30.05.20	00:18	01:34:00	01:16:00	132KV RGP-TARKERA CKT-I	DP OPERATED AGT ZONE-1 LOC-0.59KM IA-4298A IG-4807A				DP OPERATED AGT ZONE-1 LOC-25.30KM IA-3395A IG-3401A
229	Sundargarh	30.05.20	00:21	02:04	01:43:00	132 KV Budhipadar-Sundargarh CKT-I	At-Sundargarh,E/F,R-phase, IL1=2.15KA,IL2=0.18KA,IL3=0.17KA, DP:AGT,loc-2.61,A=2146A,B=176A,C=172A,N=2495 A,Zone-1				
230	Tarkera	30.05.20	00:33	09:41	09:08	220kV tarkera-Rourkela PG Ckt-1.	DP, R Ph, 6.9km, 6.47kA.				
231	Kalunga	30.05.20	00:39	01:46	1:07:00	132 KV Kalunga- Budhipadar Line	DP Relay- Tripped Phase- R, Y & B, Fault-O/C, Zone- None, Fault location- None, Ir-1.821 KA, Iy-1.859 KA, Ib-1.891 KA Backup Relay- Tripped Phase-R, Y & B, Fault-O/C, Ir- 1.801 KA, Iy-1.841 KA, Ib-1.9 KA, In-25.47 A				Stood Ok.
232	Rengali	30.05.20	01:53	02:52:00	00:59	220KV RENGALI S/Y-TARKERA FDR-II	DP RELAY OPERATED,FAULT ABS DIST=123.39 KM ,FAULT REAL DIST=92.08 %,LOOP=L3-N,IL3=3719.05 A				NA
233	Bolangir(New)	30.05.20	02:00	02:05	00:05	220KV Barghar(New)-Sadeipali ckt	Tripped on distance protection.				220KV PGCIL ckt was in service
234	Cuttack	30.05.20	03:41	04:08	00:27	132 KV CTC- JSPR Line	Tripped on O/C in Y-ph & E/Fwith M/R,IL2=2.38KA.DP relay not opnd.				Jagatsinghpur availing p/s from Paradeep end
235	Kendrapara	30.05.20	04:41	04:50	00:09	132KV KENDRAPARA - PARADEEP CKT-II	TRIPPED ON DP RELAY WITH DIST.14.95KM,R-PH.				THERE IS NO L/R
236	Bolangir(New)	30.05.20	07:38	07:52	00:14	132KV Sadeipali-Patnagarh ckt-II	Tripped on distance protection.				
237	Bolangir(New)	30.05.20	07:38	07:58	00:20	132KV side 160MVA Auto-III	Tripped on earth fault displayed on o/c and e/f relay.				
238	Bhanjanagar	30.05.20	15:52	20:05	04:13	220kv Mendhasala fdr	CGT,Z-1,D=3.6KM				CT FAIL
239	Balimela	31.05.20	13:56	14:03:00	00:07	20 mva Tr 2 (LV Side)	Over Current				
240	Joda	31.05.20	13:56	14:43	00:47	220KV JODA-Ramachandrapur fdr	Tripped at Both End . AT Joda end -Dp Relay Tripped,Zone-01, F.D-1.09KM, F.L-L3-N, Fault Current :- IL1-341.91A, IL2-738.46A, IL3-4535.34A, IN-5574.97A				
241	Joda	31.05.20	13:56	14:51	00:55	220KV JODA-TTPS CKT-II	Tripped at TTPS End Only. AT TTPS end -Dp Relay Tripped,Zone-02, F.D- 122.4KM, Fault Current :- IL1-210A, IL2-260A, IL3-93.82A				

SYSTEM DISTURBANCE IN THE MONTH OF MAY- 2020 (B) TRIPPING OF LINE / EQUIPMENT WITH LOAD LOSS											
Sl. No.	Sub-Station	Date	From	To	Duration (HH:MM)	Lines / Equipments / Generating Units tripped	Relay Indication / Cause	Grid Sub-stations affected (it can be more than one)	Area interruption period	Energy Loss in MU	Remarks
1	Kesinga	01.05.20	06:05	06:15	00:10	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:10	0.000562	
2	Kesinga	01.05.20	08:38	08:42	00:04	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:04	0.000225	
3	Kalarangi	01.05.20	11:05	11:20	00:20	132kv Incomer	E/F trip & master relay	Kalarangi	00:20	0.00310	
4	Jagatsingpur	01.05.20	13:20	14:46	01:26	132KV JSPUR - PDP FDR	I/C power supply failed from PDP end	Jspur Grid S/S & Gorekhnath TSS	00:04	0.002244	Alternate supply availed from CTC end at 13:24 Hrs
5	Aska New.	01.05.20	13:25	18:12	04:47	220 KV BNJ-ASKA NEW CKT-2	E/F on B-Ph	Aska new, Aska	00:17	0.01320	
		01.05.20	13:25	13:42	00:17	220 KV BNJ-ASKA NEW CKT-1	E/F on B-Ph				
6	Bolangir(New)	01.05.20	15:15	15:27	00:12	132KV Sadeipali-Barpali feeder	Tripped on distance protection.	GSS Barpali, RTSS Durguripali	00:12	0.00535	
7	Jagatsingpur	01.05.20	15:16	18:48	03:32	132KV JSPUR - PDP FDR	I/C power supply failed from PDP end	Jspur Grid S/S & Gorekhnath TSS	00:01	0.000561	Alternate supply availed from CTC end at 15:17 Hrs
8	Bolangir(New)	01.05.20	15:29	19:35	04:06	132KV Sadeipali-Barpali feeder	Tripped on distance protection.	GSS Barpali, RTSS Durguripali	00:14	0.00624	Barpali availed P/S from Bargarh end at 15:43Hrs.
9	Kesinga	01.05.20	15:30	15:35	00:05	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:05	0.000281	
10	Tentulikhunti	01.05.20	15:34	15:40	00:06:00	TRANSFORMER-1,2&3	Over current	Tentulikhunti	00:06	0.00094	Over current
11	Marshaghai	01.05.20	16:59	17:40	00:41	132/33 KV TRANSFORMER -I	O/C & E/F, DIFF. PICKED UP	MARSHAGHAI	00:41	0.00814	BUS FAULT
		01.05.20	16:59	17:47	00:48	132/33 KV TRANSFORMER -II	O/C & E/F, DIFF. PICKED UP				
12	Kesinga	01.05.20	17:02	17:12	00:10	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:10	0.000562	
13	Kesinga	01.05.20	21:58	22:03	00:05	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:05	0.000281	
14	Therubali	01.05.20	22:29	22:31	00:02	132 KV Kesinga Feeder	CA Ph at Therubali end.	Kesinga, Kesinga Tr., Muniguda, Bhawanipatna, Junagarh	0.02	0.00096	
15	Duburi	01.05.20	23:59	02.05.20 05:22	05:23	132kv Duburi-BC Mohanty Fdr	Tripped due to bursting of R Ph. LA in the Incomer Fdr at BC Mohanty S/S.	Bamnipal, Tamka Tr.	05:23	0.13113	
16	Kesinga	02.05.20	01:51	01:55	00:04	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:04	0.000225	
17	Kesinga	02.05.20	03:30	03:35	00:05	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:05	0.000281	
18	Kesinga	02.05.20	07:09	07:14	00:05	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:05	0.000281	
19	Kesinga	02.05.20	07:16	07:19	00:03	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:03	0.000169	
20	Kesinga	02.05.20	07:46	07:56	00:10	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:10	0.000562	
21	Bolangir(New)	02.05.20	10:08	10:13	00:05	132KV Sadeipali-Sonepur ckt-I	Tripped on earth fault displayed on o/c and e/f relav.	Sonepur and Boudh	00:05	0.00254	
22	Kesinga	02.05.20	14:47	14:51	00:04	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:04	0.000225	
23	Kendrapara	02.05.20	16:10	16:18	00:08	132/33KV 40MVA TRF-II	ONLY 33 KV SIDE TRIPPED ON O/C/E/F WITHM/R	KENDRAPARA	00:08	0.00312	
		02.05.20	16:10	16:27	00:17	132/33KV 40MVA TRF-IV	ONLY 33 KV SIDE TRIPPED ON O/C/E/F WITHM/R				
24	Kesinga	02.05.20	17:00	17:03	00:03	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:03	0.000169	
25	Kesinga	02.05.20	17:55	17:58	00:03	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:03	0.000169	
26	Umerkote	02.05.20	18:41	18:54	00:13	132KV DABUGAON-UMERKOTE LINE	Source end failure	Dabugaon, Umerkote	00:13	0.00422	Tripped from Tentulikhunti grid S/S
27	Kesinga	03.05.20	00:21	00:31	00:10	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:10	0.000562	
28	Therubali	03.05.20	00:22	0.23	00:01	132 KV Kesinga Feeder	CAT at Therubali end.	Kesinga, Kesinga Tr., Muniguda, Bhawanipatna, Junagarh	00:01	0.00048	
29	Kesinga	03.05.20	00:22	00:24	00:09	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:09	0.000562	
30	Kesinga	03.05.20	00:49	00:59	00:10	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:10	0.000562	
31	Kesinga	03.05.20	02:40	02:45	00:09	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:09	0.000562	
32	Kesinga	03.05.20	03:42	03:52	00:10	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:10	0.000562	
33	Barpali	03.05.20	06:53	06:55	00:02	132KV RTSS DUNGURIPALI	O/C	RTSS Durguripali	00:02	0.00012	O/C
34	Barpali	03.05.20	07:24	07:35	00:11	132KV RTSS DUNGURIPALI	O/C	RTSS Durguripali	00:11	0.00065	O/C
35	Kesinga	03.05.20	11:09	11:14	00:10	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:10	0.000562	
36	Kesinga	03.05.20	11:53	11:56	00:10	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:10	0.000562	
37	Kesinga	03.05.20	14:36	14:39	00:03	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:03	0.000169	
38	Kesinga	03.05.20	14:52	15:00	00:08	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:08	0.000449	
39	Kesinga	03.05.20	19:15	19:25	00:10	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:10	0.000562	
40	Kesinga	03.05.20	20:20	20:30	00:10	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:10	0.000562	
41	Kesinga	03.05.20	20:57	21:07	00:10	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:10	0.000562	
42	Kesinga	03.05.20	21:47	21:51	00:04	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:04	0.000225	
43	Bhawanipatna	03.05.20	21:53	21:55	00:02	Failed from KESINGA	132 KV P/S FAIL	Muniguda, Powmex, Kesinga, Traction, Bhawanipatna, Junagarh	00:02	0.00223	TRIPPED FROM KESINGA END
44	Kesinga	03.05.20	21:54	21:56	00:04	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:04	0.000225	
45	Therubali	03.05.20	21:55	21:57	00:02	132 KV Kesinga Feeder	CA Ph at Therubali end.	Kesinga, Kesinga Tr., Muniguda, Bhawanipatna, Junagarh	00:02	0.00223	
46	Kesinga	03.05.20	22:13	22:18	00:05	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:05	0.000281	

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
47	Kesinga	03.05.20	22:30	22:37	00:05	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:05	0.000281	
48	Kesinga	03.05.20	22:57	23:04	00:05	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:05	0.000281	
49	Kesinga	04.05.20	00:15	00:20	00:05	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:05	0.000281	
50	Kesinga	04.05.20	00:31	00:37	00:05	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:05	0.000281	
51	Barpali	04.05.20	04:49	04:51	00:02	132KV RTSS DUNGURIPALI	O/C	RTSS DUNGURIPALI	00:02	0.00012	O/C
52	Kesinga	04.05.20	05:16	05:21	00:05	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:05	0.000281	
53	Barpali	04.05.20	06:02	06:04	00:02	132KV RTSS DUNGURIPALI	O/C	RTSS DUNGURIPALI	00:02	0.00012	O/C
54	Kesinga	04.05.20	06:20	06:27	00:05	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:05	0.000281	
55	Kesinga	04.05.20	06:38	06:43	00:05	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:05	0.000281	
56	Kesinga	04.05.20	06:48	06:53	00:05	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:05	0.000281	
57	Kesinga	04.05.20	07:48	07:53	00:05	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:05	0.000281	
58	Barpali	04.05.20	08:05	08:06	00:01	132KV RTSS DUNGURIPALI	O/C	RTSS DUNGURIPALI	00:01	0.00006	O/C
59	Kuchinda	04.05.20	08:31	08:59	00:28	132kv SMC feeder (Incomer)tripped at SMC end		Kuchinda	00:28	0.00489	power restored from SMC end at 08:59 on dt 04.05.2020
60	Joda	04.05.20	08:44	09:12	00:28	132KV JODA PPG Fdr.	Tripped at Both End. AT Joda end - Dp Relay Tripped,Zone-01, F.D- 3.33KM, F.L-L2-N, Fault Current :- IL1-292.24A, IL2-5914.91A, IL3-242.10A, IN-5728.95A At PPG end: E/F ZONE1 Loc=33.25KM, Ia=310A, Ib=354A, Ic=256A, IG= 546A, In=0A.	Polasponga, ESIL, Traction, Patnaik St.	00:28	0.01815	
61	Joda	04.05.20	10:37	11:02	00:25	220KV JODA-TTPS CKT-I fdr	Tripped at Both End - AT Joda end -Dp Relay Tripped,Zone-01, F.D- 11.610KM, F.L-L1-N, Fault Current :- IL1-2424.20A, IL2-286.87A, IL3-398.70A, IN-3088.02A	Banspani Tr., FAP, JSPL, TATA St., TATA St. Long, JODA, Sarada, Palaspanga, ESIL, Traction.	00:25	0.05455	
		04.05.20	10:37	05.05.20 15.12	28.35	220KV JODA-TTPS CKT-II fdr	Tripped at Both End - AT Joda end -Dp Relay Tripped,Zone-01, F.D- 11.610KM, F.L-L1-N, Fault Current :- IL1-2424.20A, IL2-286.87A, IL3-398.70A, IN-3088.02A				
62	Kesinga	04.05.20	12:20	12:26	00:05	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:05	0.000281	
63	Kesinga	04.05.20	12:28	12:34	00:05	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:05	0.000281	
64	Barpali	04.05.20	12:54	12:55	00:01	132KV RTSS DUNGURIPALI	O/C	RTSS DUNGURIPALI	00:01	0.00006	O/C
65	Kesinga	04.05.20	13:54	13:59	00:05	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:05	0.000281	
66	Barpali	04.05.20	14:32	14:37	00:05	132KV RTSS DUNGURIPALI	O/C	RTSS DUNGURIPALI	00:05	0.00030	O/C
67	Barpali	04.05.20	14:43	14:45	00:02	132KV RTSS DUNGURIPALI	O/C	RTSS DUNGURIPALI	00:02	0.00012	O/C
68	Kesinga	04.05.20	15:33	15:38	00:05	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:05	0.000281	
69	Kesinga	04.05.20	16:05	16:10	00:05	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:05	0.000281	
70	Kesinga	04.05.20	16:27	16:32	00:05	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:05	0.000281	
71	Kesinga	04.05.20	16:39	16:45	00:05	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:05	0.000281	
72	Kesinga	04.05.20	17:07	17:12	00:05	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:05	0.000281	
73	Kesinga	04.05.20	18:44	18:47	00:05	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:05	0.000281	
74	Boudh	04.05.20	19:05	19:10	00:05	Supply failed from Balangir	Feeder tripped from balangir	Sonepur, Boudh	00:05	0.00254	
75	Boudh	04.05.20	19:31	19:36	00:05	Supply failed from Balangir	Feeder tripped from balangir	Sonepur, Boudh	00:05	0.00254	
76	Kesinga	04.05.20	19:35	19:45	00:10	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:10	0.000562	
77	Barpali	04.05.20	21:11	21:12	00:01	132KV RTSS DUNGURIPALI	O/C	RTSS DUNGURIPALI	00:01	0.00006	O/C
78	Kesinga	04.05.20	21:42	21:50	00:08	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:08	0.000449	
79	Kesinga	04.05.20	21:54	22:04	00:10	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:10	0.000562	
80	Kesinga	04.05.20	22:23	22:28	00:05	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:05	0.000281	
81	Kesinga	04.05.20	22:24	22:29	00:05	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:05	0.000281	
82	Kesinga	04.05.20	22:31	22:41	00:10	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:10	0.000562	
83	Kesinga	04.05.20	23:31	23:36	00:05	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:05	0.000281	
84	Kesinga	05.05.20	00:18	00:23	00:05	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:05	0.000281	
85	Kesinga	05.05.20	00:27	00:32	00:05	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:05	0.000281	
86	Kesinga	05.05.20	01:13	01:18	00:05	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:05	0.000281	
87	Kesinga	05.05.20	02:10	02:15	00:05	2KV KESINGA-VAL-MUNIGUDA-TVL SC LI	Directional O/C, E/F	Kesinga, Trac., Powmex, Bhawanipatna, Junagarh	00:05	0.005269	
88	Kesinga	05.05.20	03:50	03:54	00:04	2KV KESINGA-VAL-MUNIGUDA-TVL SC LI	Directional O/C, E/F	Kesinga, Trac., Powmex, Bhawanipatna, Junagarh	00:04	0.004215	
89	Kendrapara	05.05.20	13:26	13:28	00:02	132/33KV 40MVA TRF-II	ONLY 33 KV SIDE TRIPPED ON O/C,E/F WITHM/R	KENDRAPARA	00:02	0.00078	
		05.05.20	13:26	13:35	00:09	132/33KV 40MVA TRF-IV	ONLY 33 KV SIDE TRIPPED ON O/C,E/F WITHM/R				
90	Kesinga	05.05.20	21:19	21:27	00:04	2KV KESINGA-VAL-MUNIGUDA-TVL SC LI	Directional O/C, E/F	Kesinga, Trac., Powmex, Bhawanipatna, Junagarh	00:04	0.004215	
91	Kesinga	05.05.20	23:06	23:09	00:03	2KV KESINGA-VAL-MUNIGUDA-TVL SC LI	Directional O/C, E/F	Kesinga, Trac., Powmex, Bhawanipatna, Junagarh	00:03	0.003162	

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92	Sonepur	05.05.20	23:10	06.05.20 00:10:00	01:00	Transformer I	Due to 33KV Dumerbahal fdr	Sonepur	00:51	0.02587	
		05.05.20	23:10	06.05.20 00:05:00	00:55	Transformer II	Due to 33KV Dumerbahal fdr				
		05.05.20	23:10	06.05.20 00:01:00	00:51	Transformer III	Due to 33KV Dumerbahal fdr				
93	Kesinga	05.05.20	23:30	23:37	00:03	132KV KESINGA-VAL-MUNIGUDA-TVL SC LINE	Directional O/C, E/F	Kesinga, Trac., Powmex, Bhawanipatna, Junagarh acme,	00:03	0.003162	
94	Bolangir	06.05.20	00:51	00:58	00:07	132KV KESINGA	E/F	saintala, tusura, khariar, nuapada, kantabanji, Kantabanji Traction	0:07 0:47 01:02 0:46	0.000004 0.00125 0.01054	Saintala & Tusura availed TVL power at 01:37 & 01:53 hrs resp. Khariar, Kantabanji & Nuapara availed TVL power at 01:37Hrs.
95	Bhawanipatna	06.05.20	02:10	02:14	00:04	Failed from KESINGA	132 KV P/S FAIL	Kesinga, Traction, Bhawanipatna, Junagarh	00:04	0.00275	TVL-Kesing Fdr tripped at Kesinga end
96	Nuapada	06.05.20	02:11	02:14	00:03	132kv Khariar-Nuapada Line	Due to Circuit Overloading	Khariar, Nuapada, Nuapara Tr., Kantabanji, Kantabanji Tr.	00:03	0.00216	Incomer tripped at Khariar end.
97	Palaspanga	06.05.20	02:18	02:50	00:32	132KV ESSAR feeder	O/c, Ia=0.16KA, Ib=0.01KA, Ic=0.00KA	ESIL	00:32	0.00547	O/C TRIP
98	Palaspanga	06.05.20	02:52	02:25	00:33	132KV ESSAR feeder	E/F, DP ZONE1, Ia=1.36KA, Ib=0.06KA, Ic=0.001KA, Distance= 3.12m	ESIL	00:33	0.00564	E/F TRIP
99	Bhawanipatna	06.05.20	03:50	03:53	00:03	Failed from KESINGA	132 KV P/S FAIL	Kesinga, Traction, Bhawanipatna, Junagarh	00:03	0.00206	TVL-Kesing Fdr tripped at Kesinga end
100	Bhawanipatna	06.05.20	05:27	05:34	00:07	Failed from KESINGA	132 KV P/S FAIL	Kesinga, Traction, Bhawanipatna, Junagarh	00:07	0.00480	TVL-Kesing Fdr tripped at Kesinga end
101	Nuapada	06.05.20	05:29	05:34	00:05	132kv Khariar-Nuapada Line	Due to Circuit Overloading	Khariar, Nuapada, Nuapara Tr., Kantabanji, Kantabanji Tr.	00:05	0.00361	Incomer tripped at Khariar end.
102	Nuapada	06.05.20	10:34	10:38	00:04	132kv Khariar-Nuapada Line	Due to Circuit Overloading	Khariar, Nuapada, Nuapara Tr., Kantabanji, Kantabanji Tr.	00:04	0.00289	Incomer tripped at Khariar end.
103	Barpali	06.05.20	11:49	11:50	00:01	132 KV BOLANGIR		BARPALI, RTSS Dunguripali	00:01	0.00045	SOURCE FAILURE
104	Bolangir(New)	06.05.20	13:26	13:31	00:05	132KV Sadeipali-Sonepur ckt-I	Tripped on earth fault displayed on o/c and e/f relay.	Sonepur, Boudh	00:05	0.00254	
105	Bolangir(New)	06.05.20	14:09	14:17	00:08	132KV Sadeipali-Sonepur ckt-I	Tripped on earth fault displayed on o/c and e/f relay.	Sonepur, Boudh	00:08	0.00406	
106	Bhawanipatna	06.05.20	21:19	21:22	00:03	Failed from KESINGA	132 KV P/S FAIL	Kesinga, Traction, Bhawanipatna, Junagarh	00:03	0.00206	TVL-Kesing Fdr tripped at Kesinga end
107	Palaspanga	06.05.20	22:10	22:17	00:07	132KV ESSAR feeder	O/c, Ia=0.09KA, Ib=0.06KA, Ic=0.03KA	ESIL	00:07	0.00120	O/C TRIP
108	Bhawanipatna	06.05.20	23:03	23:06	00:03	Failed from KESINGA	132 KV P/S FAIL	Kesinga, Traction, Bhawanipatna, Junagarh	00:03	0.00206	TVL-Kesing Fdr tripped at Kesinga end
109	Joda	06.05.20	23:06	23:11	00:05	132KV JODA PPG Fdr.	Tripped at Both End -AT Joda end -B/U Relay, Directional O/C Trip, Fault Current :-IL1-0.66KA, IL2-0.70KA, IL3-0.60KA	Polasponga, ESIL, Traction, Patnaik St.	00:05	0.00324	
110	Bhawanipatna	06.05.20	23:30	23:37	00:07	Failed from KESINGA	132 KV P/S FAIL	Kesinga, Traction, Bhawanipatna, Junagarh	00:07	0.00480	TVL-Kesing Fdr tripped at Kesinga end
111	Khariar	06.05.20	03:50	03:58	00:08	132KV Kesinga-Khariar Line	Tripped from Kesinga.	Khariar, Kantabanji, Tr., Nuapada, Nuapada Tr.	00:08	0.005772	Due to Circuit Overloading
112	Kesinga	06.05.20	08:20	08:30	00:10	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:10	0.000562	

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113	Kesinga	06.05.20	10:25	10:35	00:10	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:10	0.000562	
114	Kesinga	06.05.20	11:56	12:06	00:10	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:10	0.000562	
115	Jagatsingpur	06.05.20	06:07	06:38	00:31	132KV JSPUR - PDP FDR	I/C power supply failed from PDP end	Jspur Grid S/S & Gorekhnath TSS	00:01	0.000561	Alternate supply availed from CTC end at 06:08 Hrs
116	Palaspanga	07.05.20	01:14	01:20	00:06	132KV ESSAR feeder	O/c, Ia=0.20KA, Ib=0.10KA, Ic=0.10KA	ESIL	00:06	0.00103	O/C TRIP
117	Palaspanga	07.05.20	01:24	01:30	00:06	132KV ESSAR feeder	O/c, Ia=0.22KA, Ib=0.10KA, Ic=0.18KA	ESIL	00:06	0.00103	O/C TRIP
118	Padampur	07.05.20	01:34	04:16	02:42	ALL TRF/FEEDER TRIPPED	R PH LIMB OF ONE OF THE 33KV BREAKER WAS NOT ABLE TO ISOLATE PROPERLY DUE TO HEAVY LIGHTENING AND RAIN.	Padampur	02:42	0.01048	AFTER ISOLATING THE BREAKER ALL TRF AND FEEDER WAS CHARGED AND STOOD OK.
119	Bolangir	07.05.20	03:45	04:03	00:18	132KV KESINGA	O/V	acme, saintala, khariar, Nuapara Tr., nuapara, tusura, Kantabanji Tr., kantabanji	00:18	0.01960	
120	Palaspanga	07.05.20	14:29	14:34	00:05	132kv JODA-PPG Feeder	O/C (R PH), Ia=422.5A, Ib=319.2A, Ic=273.1A, In = 0.04A, Ig= 5A	Palaspanga, Essar, Traction	00:05	0.00324	O/C TRIP
121	Kendrapara	08.05.20	16:42	16:46	00:04	132/33KV 40MVA TRF-II	ONLY 33 KV SIDE TRIPPED ON O/C/E/F WITH/M/R	KENDRAPARA	00:04	0.00156	
		08.05.20	16:42	16:48	00:06	132/33KV 40MVA TRF-IV	ONLY 33 KV SIDE TRIPPED ON O/C/E/F WITH/M/R				
122	Joda	08.05.20	17:50	18:01	00:11	132KV JODA PPG Fdr.	Tripped at Both End. <u>At Joda end</u> -Dp Relay Tripped,Zone-01, F.D- 2.024KM, F.L-L2-N, Fault Current :- IL1-241.48A, IL2- 6272.78A, IL3-110.23A, IN-6050.51A	Polasponga, ESIL, Traction, Patnaik St.	00:11	0.00713	
123	Kalunga	08.05.20	19:30	20:43	1:13:00	132 KV Kalunga- Budhipadar Line	DP Relay- Tripped Phase- R, Fault-E/F, Zone- 1, Fault location- 14.90 km, Ir-4.729 KA, Iy-54.94 A, Ib-240.8 A Backup Relay- Tripped Phase-R, Fault-E/F, Ir- 4.929 KA, Iy- 58.81 A, Ib-243.1 A, In-5.213 KA	Nil	Nil		Stood Ok.
124	Therubali	08.05.20	19:36	19:43	00:07	132 KV Kesinga Feeder	CAT at Therubali end.	Kesinga, Kesinga Tr., Muniguda, Bhawanipatna, Junagarh	00:07	0.00782	
125	Joda	08.05.20	21:36	21:50	00:14	220KV JODA-TTPS CKT-II	Tripped at Both End. <u>At Joda end</u> -Dp Relay Tripped,Zone-01, F.D- 51.91KM, F.L-L3-N, Fault Current :- IL1-423.31A, IL2- 246.36A, IL3-1205.08A, IN-1755.15A	JODA, Palaspanga, ESIL, Traction.	00:14	0.00907	
126	Kamakhyanagar	08.05.20	22:28	22:55	00:27	132 KV Kamakhyanagar - Duburi	O/C	K.Nagar, Kalarangi	00:27	0.01067	OPCL-K.Nagar tripped at OPCL end.
127	Jagatsingpur	09.05.20	00:37	00:46	00:09	132KV JSPUR - PDP FDR	I/C power supply failed from PDP end	Jspur Grid S/S & Gorekhnath TSS	00:09	0.005048	
128	Kendrapara	09.05.20	10:02	10:06	00:04	132KV KENDRAPARA-CHANDIKHOLE CKT-I	TRIPPED ON BACKUP E/F WITH M/R.	Chandikhola	00:04	0.00169	
129	Balasore	10.05.20	13:52	14:13	00:21	132KV Balasore-Soro feeder	At Balasore end: DP really: Z-2, Y-G, Iy-2.063KA, 35.15Km	Soro	00:21	0.01055	During the time of tripping, there was heavy lightning & rain
130	Barbil	10.5.20	16:47	17:05	00:18	132 KV Barbil - Bolani-Beekay Steel fdr	Tripped as D/P Relay operated with following indications at RKL Grid end: Zone-1, Location-31.18Km, Tripped phase- C- G IA=97A, IB=250A, IC=2724A, IG=2415A	Barbil, Bolani, Arya Ispat, Nalda Traction and BRPL	00:18	0.01002	Delay in charge due to Heavy lightning, winderstorm and rain
131	Phulnakhara	10.05.20	18:22	18:28	00:06	132KV Cuttack-Phulnakhara Feeder	At Cuttack end: O/C R-ph & E/F, Zone-1	Phulnakhara	00:06:00	0.00231	132KV P/S was resumed from Cuttack Grid end.
132	Mania	11.05.20	05:28	05:46	00:18	MANIA - OCL INCOMER	R PHASE GROUNDED	Mania	00:11	0.00008	
		11.05.20	05:33	05:44	00:11	ICCL MANIA INCOMER	R PHASE GROUNDED				
133	Jayanagar	12.05.20	10:08	20:27	10:19	132kv Jayanagar Traction Feeder	B Phase CT burst	Jayanagar Tr., Tentulikhunti, Dabugaon, Umerkote	10:19 1:30	0.07124 0.04329	Jayanagar, Tentulikhunti affected due to damage to the Reserve Bus isolator and charged at 11:38Hrs.
134	Therubali	12.05.20	23:12	23:14	00:02	132 KV Kesinga Feeder	At Therubali end: C-A Phase.	Kesinga, Kesinga Tr., Muniguda, Bhawanipatna, Junagarh	00:02	0.00223	
135	Therubali	13.05.20	02:01	02:02	00:01	132 KV Kesinga Feeder	CA Ph at Therubali end.	Kesinga, Kesinga Tr., Muniguda, Bhawanipatna, Junagarh	00:01	0.00112	
136	Marshaghai	14.05.20	05:58	06:11	00:13	132/33 KV TRANSFORMER -I	O/C & E/F, DIFF. PICKED UP	MARSHAGHAI	00:13	0.00258	BIRD FAULT
		14.05.20	05:58	06:12	00:14	132/33 KV TRANSFORMER -II	O/C & E/F, DIFF. PICKED UP				
138	Palaspanga	14.05.20	14:37	14:51	00:14	132KV ESSAR feeder	E/F , DP ZONE1 , Ia=1.61KA, Ib=0.09KA, Ic=0.01KA, Distance= 2.92m	ESIL	00:14	0.00239	E/F TRIP
139	Sundargarh	14.05.20	18:54	19:44	00:50:00	132 KV Budhipadar-Sundargarh CKT-I	At-Sundargarh, E/F	Sundargarh	00:50	0.01780	
		14.05.20	18:54	18:22 (16.05.2020)	23:28	132 KV Budhipadar-Sundargarh CKT-II	At-Sundargarh, O/C,B-phase, IL1=0.17 KA,IL2=0.24 KA,IL3=2.31KA DP:Zone-1,CGT,Loc-1.51,A=171 A,B=239 A,C=2306 A,N=2715 A, B-phase CVT Burst				

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
140	Bargarh	15.05.20	06:52	07:01	00:09	40 MVA TRANSFORMER-I	EARTHFAULT	Bargarh	00:09	0.00835	INCOMER-I TRIPPED
		15.05.20	06:52	07:01	00:09	40 MVA TRANSFORMER-II	EARTHFAULT				INCOMER-II TRIPPED
		15.05.20	06:52	07:05	00:13	40 MVA TRANSFORMER-III	EARTHFAULT				INCOMER-III TRIPPED
141	Bangiriposi	15.05.20	12:59	13:41	0:42:00	132 KV KUCHEI-BANGIRIPOSI PGCIL FDR.	At PGCIL End: E/F in B- Ph. Distance-5.47 km., Zone-1, General Trip, Ib-4.40KA.	Bangiriposi, Rairangpur, Karanjia, Dhenkikot.	00:42	0.02375	Tripped from PGCIL end.
142	Bhawanipatna	15.05.20	21:39	21:49	00:10	Failed from KESINGA	132 KV P/S FAIL	Kesinga, Traction, Bhawanipatna, Junagarh	00:10	0.00686	
144	Bargarh	16.05.20	01:09	01:15:00	00:06	40 MVA TRANSFORMER-I	EARTHFAULT	Bargarh	00:06	0.00557	INCOMER-I TRIPPED
		16.05.20	01:09	01:15:00	00:06	40 MVA TRANSFORMER-II	EARTHFAULT				INCOMER-II TRIPPED
		16.05.20	01:09	01:17:00	00:08	40 MVA TRANSFORMER-III	EARTHFAULT				INCOMER-III TRIPPED
145	Therubali	16.05.20	03:34	03:38	00:04	132 KV Kesinga Feeder	CAT at Therubali end.	Kesinga, Kesinga Tr., Muniguda, Bhawanipatna, Junagarh	00:04	0.00447	
146	Podagada	16.05.20	15:09	15:15	00:06	132KV Jayanagar-Podagada feeder	Auto-tripped due to fault in Rayagada Feeder	Podagada, Rayagada, Akhusing, Parlakhemundi, Mohana	00:06	0.00302	
147	Sundargarh	16.05.20	16:16	16:28	00:12:00	132 KV TRF-I & I/C-I	At-Sundargarh, O/C-R,Y-phase, IL1=0.8 KA,IL2=0.66 KA	Sundargarh	00:12	0.00427	
		16.05.20	16:16	16:28	00:12:00	132 KV TRF-II & I/C-II	At-Sundargarh, O/C-E/F,Y-phase, IL2=0.19 KA				
		16.05.20	16:16	16:40	00:24:00	132 KV TRF-III & I/C-III	At-Sundargarh, O/C-E/F,B-phase				
148	Barbil	16.5.20	17:05	17:10	00:05	132 KV Barbil - Bolani-Beekay Steel fdr	132 KV Barbil - Bolani-Beekay Steel fdr tripped at Beekay Steel end due to E/F	Barbil, Bolani, Arya Ispat, Nalda Traction, BRPL	00:05	0.00278	Tripped at Beekay Steel end due to E/F
149	Kesinga	16.05.20	17:24	18:34	00:09	132 KV VENTO SOLAR-2	O/C, E/F Relay	VENTO SOLAR	00:09	0.000004	
150	Meramundali	16.05.20	19:27	20:21	00:54	400kV Meramundali-JSPL Ckt-I		JSPL	00:53	0.00020	
151	Joda	16.05.20	19:32	19:39	00:07	220KV JODA-TTPS CKT-I	Tripped at Both End - AT Joda end -Dp Relay Tripped,Zone-01, F.D- 129.44KM, F.L-L1-L2, Fault Current :- IL1-1769.66A, IL2-1120.37A, IL3-137.18A, IN-1021.07A	JODA, Palaspanga, ESIL, Traction.	00:07	0.00454	
152	Joda	16.05.20	19:46	20:22	00:36	220KV JODA-TTPS CKT-II	Tripped at Both End - AT Joda end -Dp Relay Tripped,Zone-01, F.D- 113.71KM, F.L-L2-N, Fault Current :- IL1-189.29A, IL2-1275.70A, IL3-197.87A, IN-1307.69A	JODA, Palaspanga, ESIL, Traction.	00:23	0.01491	
		16.05.20	19:59	17:05.20 13:55	17:56	220KV JODA-TTPS CKT-I	Tripped at Both End -AT Joda end -Dp Relay Tripped,Zone-01, F.D- 110.84KM, F.L-L1-N, Fault Current :- IL1-1214.99A, IL2-287.94A, IL3-317.30A, IN-1312.36A				
153	Therubali	17.05.20	22:22	22.23	00:01	132 KV Kesinga Feeder	CAT at Therubali end.	Kesinga, Kesinga Tr., Muniguda, Bhawanipatna, Junagarh	00:01	0.00112	
155	Berhampur	18.05.20	12:06	17:30	05:24	132kV Berhampur-Digapahandi Feeder		Digapahandi, Chikiti	00:56	0.02691	B Ph Jumper snap at Loc-50. Digapahandi availed P/S from Mohana end at 13:02.
156	Therubali	18.05.20	13:31	13.44	00:13	132 KV Rayagada Feeder	B-51	Rayagada,Rayagada Tr., Akhusing, Parlakhemundi.	00:13	0.00733	
157	Therubali	18.05.20	22:16	22.18	00:02	132 KV Kesinga Feeder	CA Ph at Therubali end.	Kesinga, Kesinga Tr., Muniguda, Bhawanipatna, Junagarh	00:02	0.00223	
158	Therubali	18.05.20	22:27	22.29	00:02	132 KV Kesinga Feeder	CA Ph at Therubali end.	Kesinga, Kesinga Tr., Muniguda, Bhawanipatna, Junagarh	00:02	0.00223	
159	Marshaghai	19.05.20	05:49	05:57	00:08	132KV PDP-MGH FEEDER	O/C & E/F	MARSHAGHAI	00:08	0.00159	
		19.05.20	05:49	05:58	00:09	132 KV MGH-KDP FEEDER	O/C & E/F				
160	Ranasingpur	19.05.20	08:39	09:08	00:29	132KV Rspur-Kesura Fdr		Kesura	00:29	0.010422	
161	Kesinga	19.05.20	13:02	13:07	00:05	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:05	0.000281	
162	Bhawanipatna	19.05.20	15:43	15:47	00:04	Failed from KESINGA	132 KV P/S FAIL	Kesinga, Powmex, Traction, Khariar, Kantabanji, Kantabanji Tr., Nuapara, Nuapara Tr., Bhawanipatna, Junagarh	00:04	0.00710	Tripped from saintala

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163	Nuapada	19.05.20	15:44	15:48	00:04	132kV Khariar-Nuapada Line	Due to Over Current B-Ph Fault	Khariar,Nuapada, Nuapara Tr., Kantabanji, Kantabanji Tr.	00:04	0.00289	Incomer tripped at Khariar end.
164	Bhawanipatna	19.05.20	16:49	16:55	00:06	Failed from KESINGA	132 KV P/S FAIL	Kesinga, Powmex, Traction, Khariar, Kantabanji, Kantabanji Tr., Nuapara, Nuapara Tr., Bhawanipatna, Junagarh	00:06	0.01065	Tripped from saintala
165	Nuapada	19.05.20	16:49	16:55	00:06	132kV Khariar-Nuapada Line	Due to Over Current B-Ph Fault	Khariar,Nuapada, Nuapara Tr., Kantabanji, Kantabanji Tr.	00:06	0.00433	Incomer tripped at Khariar end.
166	Bhawanipatna	19.05.20	21:03	21:11	00:08	Failed from KESINGA	132 KV P/S FAIL	Kesinga, Powmex, Traction, Bhawanipatna, Junagarh	00:08	0.00843	TRIPPED AT LANJIGARH END
167	Kendrapara	19.05.20	21:45	21:49	00:04	132KV KENDRAPARA-CHANDIKHOLE CKT-I	TRIPPED ON BACKUP E/F WITH M/R.	Chandikhola	00:04	0.00169	
168	Marshaghai	20.05.20	03:26	09:13	05:47	132/33 KV TRANSFORMER -I	U/F	MARSHAGHAI	05:47	0.06888	Delay in Charging due to cyclone AMPHAN
		20.05.20	03:37	10:19	06:42	132/33 KV TRANSFORMER -II	U/F				
170	Bhanjanagar	20.05.20	10:02	10:24	00:01	Auto Transformer-II	Tripped due to bird fault.	Bhanjanagar, Phulbani	00:01	0.00070	L/C BY GSS
		20.05.20	10:02	17:55	07:53	160 mva Auto trf no-1	BPH O E/F				
171	Bolangir(New)	20.05.20	11:51	11:58	00:07	132KV Sadeipali-Barpali feeder	At Bolangir N end: DP, Z2, Y-E, 1.812kA, 48.06km.	BARPALLI, RTSS Dunguripali	00:07	0.00312	
172	Kamakhyanager	20.05.20	11:51	11:59	00:08	132 KV Kamakhyanager - Duburi	E/F	K.Nagar, Kalarangi	00:08	0.00316	OPCL-K.Nagar tripped at OPCL end.
173	Bolangir(New)	20.05.20	11:59	12:09	00:10	132KV Sadeipali-Barpali feeder	Tripped on distance protection.	BARPALLI, RTSS Dunguripali	00:10	0.00446	
174	Balasore	20.05.20	12:44	18:35	05:51	132kV Balasore-Udala feeder	Tripped due to snapping of B Ph wavetrap jumper.	Udala , Betanati	00:59	0.01470	P/S availed from Baripada PG at 13:34
175	Bhanjanagar	20.05.20	13:32	15:03	01:31	132KV Bhanjanagar- Phulbani Fdr	Tripped due to B Phase PT burst at B.Nagar Grid S/S.	Phulbani	01:31	0.02682	
176	Joda	20.05.20	13:48	14:05	00:17	132KV JODA PPG Fdr.	Tripped at Both End. AT Joda end -Dp Relay Tripped,Zone-01, F.D- 1.91KM, F.L-L2-N, Fault Current :- IL1-192.60A, IL2-5938.66A, IL3-50.82A, IN-5703.39A At PPNG end; E/F ZONE1 Loc=32.26KM, Ia=201A, Ib=185A, Ic=69A, IG= 437A, In=0A.	Polasponga, ESIL, Traction, Patnaik St.	00:17	0.01102	
177	Joda	20.05.20	14:06	14:20	00:14	132KV JODA PPG Fdr.	Tripped at JODA End only - AT Joda end -Dp Relay Tripped,Zone-01, F.D- 3.12KM, F.L-L2-N, Fault Current :- IL1-175A, IL2-5542.79A, IL3-125.38A, IN-5237.78A	Polasponga, ESIL, Traction, Patnaik St.	00:14	0.00907	
178	Marshaghai	21.05.20	06:59	07:44	00:45	132KV PDP-MGH FEEDER	INCOMING FAIL	MARSHAGHAI	00:19	0.00377	Kendrapara-Marshaghai Fdr charged at 07:18.
179	Olaver	21.05.20	07:00	07:18	00:18	132kV Pattamundai-Olaver Fdr	Tripped from Pattamundai end.	Olaver, Candbali	00:18	0.001528	
180	Bolangir(New)	21.05.20	12:19	17:53	05:34	132KV Sadeipali-Barpali feeder	Tripped on distance protection.	BARPALLI, RTSS Dunguripali	00:39	0.01738	Barpali availed P/S from Bargarh end at 12:58 Hrs.
181	Nuapada	21.05.20	15:02	15:15	00:13	132kV Khariar-Nuapada Line	Due to Circuit Overloading	Khariar,Nuapada, Nuapara Tr., Kantabanji, Kantabanji Tr.	00:13	0.00938	Incomer tripped at Khariar end.
182	Bhawanipatna	21.05.20	16:39	16:46	00:07	Failed from KESINGA	132 KV P/S FAIL	Kesinga, Powmex, Traction, Bhawanipatna, Junagarh	00:07	0.00738	TRIPPED AT LANJIGARH END
183	Therubali	22.05.20	00:20	00:21	00:01	132 KV Kesinga Feeder	CA Ph at Therubali end.	Kesinga, Kesinga Tr., Muniguda, Bhawanipatna, Junagarh	00:01	0.00112	
184	Bhadrak	22.05.20	08:56	11:02	02:06	132 KV Bhadrak-Traction	Tripped on O/C & E/F(B-phase)	Bhadrak Tr.	02:06	0.007945	
185	Bhadrak	22.05.20	08:56	11:02	02:06	132 KV Bhadrak-Traction	Tripped on O/C & E/F(B-phase)	Bhadrak Tr.	02:06	0.007945	
186	Bhadrak	22.05.20	14:23	14:41	00:18	132 kv Bhadrak-Facor	Tripped on 86 A & E/F	Facor	00:18	0.000005	
187	Bhadrak	22.05.20	14:23	14:41	00:18	132 kv Bhadrak-Facor	Tripped on 86 A & E/F	Facor	00:18	0.000005	
188	Padampur	22.05.20	14:30	14:56	00:26	132KV INCOMER TRIPPED FROM PATNAGARH GRID END	132KV POWER SUPPLY FAILED FROM 132/33KV PATNAGARH END DUE TO DISTANCE PROTECTION OPERATED.	Padampur	00:26	0.00648	AFTER OPENING INCOMER CB AND CHARGING SEQUENTIALLY POWER SUPPLY STOOD OK.

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189	Kesinga	22.05.20	19:09	19:11	00:02	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:02	0.000112	
190	Therubali	22.05.20	22:56	22:57	00:01	132 KV Kesinga Feeder	CAT at Therubali end.	Kesinga, Kesinga Tr.,	00:01	0.00112	
191	Palaspanga	23.05.20	06:56	06:58	00:02	132KV RTSS-KJR Feeder	O/C (R PH), Ia=222.5A, Ib=145.2A, Ic=56.1A, In = 0.04A.	RTSS Keonihar	00:02	0.00017	O/C TRIP
192	Bangiriposi	23.05.20	10:36	10:44	00:08	132KV BANGIRIPOSII-RAIRANGPUR FDR.	General Trip, O/C Y&B-Ph Zone-1, Distance-2.4km, IL1-0.19KA, IL2-3.08KA, IL3-2.98KA.	Rairangpur, Karanjia, Dhenkikot.	00:08	0.00375	
193	Kendrapara	23.05.20	16:28	16:35	00:07	132/33KV 40MVA TRF-II	132KV SIDE TRIPPED ON M/R AND 33 SIDE TRIPPE ON E/F WITH M/R.	KENDRAPARA	00:06	0.00234	
		23.05.20	16:28	16:34	00:06	132/33KV 40MVA TRF-IV	132KV SIDE TRIPPED ON M/R AND 33 SIDE TRIPPE ON E/F WITH M/R.				
194	Khajuriakata	23.05.20	20:44	20:55	00:11	MRDL-K.KATA Line	Tripped from MRDL End	K.Kata	00:11	0.00097	
		23.05.20	20:44	24.05.20 6:42:00	09:58	K.KATA- NUAPATANA	R-G Fault, Zone-I, Dist- 14.3Kms, IF=503A				
195	Dhenkanal	23.05.20	20:44	20:53	00:09	132KV DHENKANAL-MERAMUNDALI		Dhenkanal, joranda Tr., Narveram.	00:09	0.005908	Station Power Supply Fail, CB tripped at MRDL grid.
196	Jagatsingpur	24.05.20	14:47	25.05.20 13:17:00	22:30	132KV JSPUR - PDP FDR	I/C power supply failed from PDP end	Jspur Grid S/S & Gorekhnath TSS	00:06	0.003366	Alternate supply availed from CTC end at 14:53Hrs
197	Jharsuguda	24.05.20	15:08	16:04	00:56	132 kv Lapanga-jharsuguda fdr	Due to CT burst at lapanga grid switchyard.	Jharsuguda, Traction, Ultratech.	00:32	0.02008	
		24.05.20	15:08	16:11	01:03	132 kv jharsuguda-b.padarckt-i	Due to CT burst at lapanga grid switchyard.				
198	Kuchinda	24.05.20	15:09	15:29	00:20	132kv SMC feeder (Incomer)tripped at SMC end		Kuchinda	00:01	0.00017	power restored from Rajgangpur end at 15:10 on dt 24.05.2020
199	Bhawanipatna	24.05.20	19:06	19:11	00:05	Failed from KESINGA	132 KV P/S FAIL	Kesinga, Powmex, Traction, Bhawanipatna, Junagarh	00:05	0.00527	TRIPPED AT LANJIGARH END
200	Bhawanipatna	24.05.20	19:34	19:40	00:06	Failed from KESINGA	132 KV P/S FAIL	Kesinga, Powmex, Traction, Bhawanipatna, Junagarh	00:06	0.00632	TRIPPED AT LANJIGARH END
201	Therubali	24.05.20	21:34	21:36	00:02	132 KV Kesinga Feeder	CAT at Therubali end.	Kesinga, Kesinga Tr., Muniguda, Bhawanipatna, Junagarh	00:02	0.00223	
202	Therubali	24.05.20	21:48	21:50	00:02	132 KV Kesinga Feeder	CAT at Therubali end.	Kesinga, Kesinga Tr., Muniguda, Bhawanipatna, Junagarh	00:02	0.00223	
203	Bhawanipatna	24.05.20	22:13	22:18	00:05	Failed from KESINGA	132 KV P/S FAIL	Kesinga, Powmex, Traction, Bhawanipatna, Junagarh	00:05	0.00527	TRIPPED AT LANJIGARH END
204	Bhawanipatna	24.05.20	23:58	25.05.20 00:04	00:06	Failed from KESINGA	132 KV P/S FAIL	Kesinga, Powmex, Traction, Bhawanipatna, Junagarh	00:06	0.00632	TRIPPED AT LANJIGARH END
205	Therubali	25.05.20	01:29	01:31	00:02	132 KV Kesinga Feeder	CA Ph at Therubali end.	Kesinga, Kesinga Tr., Muniguda, Bhawanipatna, Junagarh	00:02	0.00223	
206	Barbil	25.5.20	08:42	09:16	00:34	132 KV Barbil - Bolani-Beekey Steel fdr	Tripped as D/P Relay operated with following indications at RKL Grid End: Zone-1, Location-4.90Km, IA=8939, IB=8760A, IC=190A, IG=13A	Barbil Grid, Bolani, Arya Steel, Nalda Traction, BRPL	00:34	0.01892	Power change over done; power availed from Joda Grid end. Charge delayed due to thunderstorm.
207	Therubali	26.05.20	03:11	03:15	00:04	132 KV Kesinga Feeder	CA Ph at Therubali end.	Kesinga, Kesinga Tr., Muniguda, Bhawanipatna, Junagarh	00:04	0.00447	
208	Bhawanipatna	26.05.20	03:28	03:31	00:03	Failed from KESINGA	132 KV P/S FAIL	Kesinga, Powmex, Traction, Bhawanipatna, Junagarh	00:03	0.00316	TRIPPED AT LANJIGARH END

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209	Palaspanga	26.05.20	10:21	10:23	00:02	132KV RTSS-KJR Feeder	O/C (R PH), Ia=219.9A, Ib=185.1A, Ic=72.1A, In = 0.04A, Ig= 6A	RTSS Keonjhar	00:02	0.00017	O/C TRIP
210	Aska New.	26.05.20	13:13	13:20	00:07	132 KV Aska New-Berhampur	TRIPPED ON O/C	Berhampur, Digapahandi, Chikiti	00:07	0.00832	
211	Chandikhol	26.05.20	16:45	16:51	00:06	132/33KV 20MVA TFR-1	Snake Fault in 33KV Main Bus	Chandikhol	00:05	0.002116	
212	Bhawanipatna	26.05.20	21:07	21:13	00:06	Failed from KESINGA	132 KV P/S FAIL	Kesinga, Powmex, Traction, Bhawanipatna, Junagarh	00:06	0.00632	TRIPPED AT LANJIGARH END
213	Bhawanipatna	26.05.20	22:24	22:30	00:06	Failed from KESINGA	132 KV P/S FAIL	Kesinga, Powmex, Traction, Bhawanipatna, Junagarh	00:06	0.00632	TRIPPED AT LANJIGARH END
214	Therubali	26.05.20	23:29	23:31	00:02	132 KV Kesinga Feeder	CA Ph at Therubali end.	Kesinga, Kesinga Tr., Muniguda, Bhawanipatna, Junagarh	00:02	0.00223	
215	Bhawanipatna	27.05.20	01:28	01:32	00:04	Failed from KESINGA	132 KV P/S FAIL	Kesinga, Powmex, Traction, Bhawanipatna, Junagarh	00:04	0.00422	TRIPPED AT LANJIGARH END
216	Bhawanipatna	27.05.20	01:45	01:48	00:03	Failed from KESINGA	132 KV P/S FAIL	Kesinga, Powmex, Traction, Bhawanipatna, Junagarh	00:03	0.00316	TRIPPED AT LANJIGARH END
217	Therubali	27.05.20	02:32	02:34	00:02	132 KV Kesinga Feeder	CA Ph at Therubali end.	Kesinga, Kesinga Tr., Muniguda, Bhawanipatna, Junagarh	00:02	0.00223	
218	Therubali	27.05.20	09:13	09:34	00:21	132 KV Ravagada Feeder	BGT	Ravagada Tr.	00:21	0.00000	
219	Therubali	27.05.20	15:30	15:42	00:12	132 KV Kesinga Feeder	CA Ph at Therubali end.	Kesinga, Kesinga Tr., Muniguda, Bhawanipatna, Junagarh	00:12	0.01341	
220	Therubali	27.05.20	15:48	15:51	00:03	132 KV Kesinga Feeder	CA Ph at Therubali end.	Kesinga, Kesinga Tr., Muniguda, Bhawanipatna, Junagarh	00:03	0.00335	
221	Bhawanipatna	27.05.20	16:27	16:29	00:02	Failed from KESINGA	132 KV P/S FAIL	Muniguda, Kesinga, Powmex, Traction, Bhawanipatna, Junagarh	00:02	0.00223	Tripped from TVL end
222	Therubali	27.05.20	16:27	16:31	00:04	132 KV Kesinga Feeder	CA Ph at Therubali end.	Kesinga, Kesinga Tr., Muniguda, Bhawanipatna, Junagarh	00:04	0.00447	
223	Bhawanipatna	27.05.20	20:52	20:54	00:02	Failed from KESINGA	132 KV P/S FAIL	Kesinga, Powmex, Traction, Bhawanipatna, Junagarh	00:02	0.00211	TVL-Kesing Fdr tripped at Kesinga end
224	Nuapada	27.05.20	21:17	21:23	00:06	132kV Khariar-Nuapada Line	Due to Over Current B-Ph Fault	Khariar, Nuapada, Nuapara Tr., Kantabanji, Kantabanji Tr.	00:06	0.00433	Incomer tripped at Khariar end.
225	Bhawanipatna	27.05.20	21:18	21:20	00:02	Failed from KESINGA	132 KV P/S FAIL	Kesinga, Powmex, Traction, Bhawanipatna, Junagarh	00:02	0.00211	TVL-Kesing Fdr tripped at Kesinga end
226	Bhawanipatna	27.05.20	23:36	23:39	00:03	Failed from KESINGA	132 KV P/S FAIL	Kesinga, Powmex, Traction, Bhawanipatna, Junagarh	00:03	0.00316	TVL-Kesing Fdr tripped at Kesinga end

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
227	Balasure	28.05.20	02:55	03:49	00:54	132KV Balasure Alloys feeder	Numerical B/U relay: STARTED PHASE-N, TRIPPED PHASE:N, Ia= 1.156KA, Ib=1.0205KA, Ic=1.172KA	Balasure Alloys	00:54	0.01134	
228	Bargarh	28.05.20	14:15	14:20:00	00:05	132 KV KATAPALI FEEDER	OVER CURRENT	Bargarh, ACC	00:05	0.00470	5
229	Bhawanipatna	28.05.20	14:48	14:51	00:03	Failed from KESINGA	132 KV P/S FAIL	Kesinga, Powmex, Traction, Bhawanipatna, Junagarh	00:03	0.00316	TVL-Kesing Fdr tripped at Kesinga end
230	Bolangir	28.05.20	16:07	16:12	00:05	132KV KESINGA	E/F	acme, saintala, khariar, nuapara, tusura, Kantabanji Tr., kantabanji	00:05	0.00544	
231	Bolangir	28.05.20	16:22	16:36	00:14	132KV KESINGA	E/F	acme, saintala, khariar, Nuapara Tr., nuapara,tusura, Kantabanji Tr., kantabanji	00:14	0.01524	
232	Rajgangpur	28.05.20	19:26	19:37:00	00:11:00	132/33KV TRANSFORMER-I	O/C&E/F IN R&Y-PHASE.	Rajgangpur	00:11:00	0.00801	33KV LA BURST OF TRANSFORMER-II Y-PHASE POWER FAILURE
233	Joda	28.05.20	19:52	20:14	00:22	220KV JODA-TIPS CKT-I	Tripped at Both End . AT Joda end -Dp Relay Tripped, Zone-01, F.D- 89.61KM, F.L-L2-L3, Fault Current :- IL1-79.37A, IL2- 2270.84A, IL3-1392.12A, IN-1345.99A	Banspani Tr., FAP, JSPL, TATA St., TATA St Long, JODA, Sarada, Palaspanga, ESIL, Traction, Barbil, Balani, Arya steel, BRPL, Nalda, BK steel.	00:22	0.06025	
234	Rajgangpur	28.05.20 28.05.20	20:16 20:16	21:19:00 21:04:00	01:03:00 00:48:00	132/33KV TRANSFORMER-I 132/33KV TRANSFORMER-III	O/C & E/F O/C & E/F	Rajgangpur	00:11:00	0.00801	DUE TO 33KV SUNDARGARH FAULT , CB
235	Barbil	28.5.20	06:56	07:28	00:32	132 KV Barbil - Bolani-Beekay Steel fdr	Tripped as D/P relay operated with following indications at both RKL grid & Beekay steel end. At RKL grid end:- Zone-1, Location-34.50Km, IA=3287A, IB=322A, IC=3684A, IG=1823A At Beekay Steel end:-Zone-1, Location-36,8Km, IA=606.2A, IB=348.7A, IC=635.28A	Barbil Grid, Bolani, Arya Steel, Nalda Traction, BRPL	00:32	0.01781	Power change over done ; power availed from Joda Grid end.Delay in charge due to Heavy lightning, thunderstorm and rain
236	Barbil	28.5.20	07:46	07:53	00:07	132 KV Barbil - Joda fdr	Tripped as D/P relay operated with following indications at Joda grid end: Zone-1,Location-1.48Km, Tripped phase- A-G IA=5570A, IB=256A, IC=306A, IN=1A, IG=5009A	Barbil Grid, Bolani, Arya Steel, Nalda Traction, BRPL	00:07	0.00390	Delay in charge due to Heavy lightning, winderstorm and rain
237	Barbil	29.05.20	00:56	01:28	00:32	133 KV Barbil - Bolani-Beekay Steel fdr	Tripped as D/P relay operated with following indications at RKL grid end. Zone-1, Location-12.86Km, Tripped phase- C-G IA=117A, IB=273A, IC=4845A, IG=2.342kA	Barbil Grid, Bolani, Arya Steel, Nalda Traction, BRPL	00:32	0.01781	Delay in charge due to Heavy lightning, winderstorm and rain
238	Kamakhyanagar	29.05.20	02:33	02:50	00:17	132 KV OPCL-K.nagar	Tripped on OPCL end	K.Nagar, Kalarangi	00:17	0.00672	Thunder & lightning
239	Phulnakhara	29.05.20	03:29	30.05.20 00:49	21:20	132kv Phulnakhara- Cuttack fdr tripped from Cuttack Grid end	O/C Y-ph, Zone-1 Dist- 0.515KM	Phulnakhara	01:41:00	0.03888	132KV P/S was resumed from Mancheswar Grid end at 05.10
240	Cuttack	29.05.20	03:39	05:54	02:15	40 MVA TRF-2	33 kv SIDE BREAKER tripped on O/C in Y-ph and E/F	CUTTACK	01:40	0.06289	Tripped due to tripping problem of 33 KV Balikuda feeder. The charging delayed due to heavy lightning and thunder
		29.05.20	03:39	05:56	02:17	40 MVA TRF-3	33 kv SIDE BREAKER tripped on O/C in Y-ph and O/C- E/F				
241	Mania	29.05.20	03:39	05:19	01:40	40 MVA TRF-1	33 kv SIDE BREAKER tripped on O/C in Y-ph and E/F	Mania	00:38	0.00027	
		29.05.20	03:51	04:33	00:42	ICCL MANIA INCOMER	Y-B LINE FAULT				
242	Ranasingpur	29.05.20	03:55	04:33	00:38	ICCL MANIA INCOMER	R PHASE GROUNDED	Kesura	00:54:00	0.01941	
		29.05.20	04:05	04:59:00	00:54:00	132kV ranasingpur-Kesura Fdr.	Tripped at R.Singpur end.				
243	Nuapada	29.05.20	09:51	10:57	01:06	132kv Khariar-Nuapada Line	Due to Over loading at ACME	Khariar,Nuapada, Nuapara Tr., Kantabanji, Kantabanji Tr.	01:06	0.04762	Incomer tripped at Khariar end.
244	Bhawanipatna	29.05.20	11:06	11:09	00:03	Failed from KESINGA	132 KV P/S FAIL	Kesinga, Powmex, Traction, Bhawanipatna, Junagarh	00:03	0.00316	TVL-Kesing Fdr tripped at Kesinga end
245	Nuapada	29.05.20	11:07	11:10	00:03	132kv Khariar-Nuapada Line	Due to Circuit Overloading	Khariar,Nuapada, Nuapara Tr., Kantabanji, Kantabanji Tr.	00:03	0.00216	Incomer tripped at Khariar end.
246	Umerkote	29.05.20	11:44	11:50	00:06	132KV DABUGAON-UMERKOTE LINE	Source end failure	Tentulikhunti, Dabugaon, Umerkote	00:06	0.00195	Tripped From Jayanagar S/S
247	Nuapada	29.05.20	11:57	12:02	00:05	132kv Khariar-Nuapada Line	Due to Circuit Overloading	Khariar,Nuapada, Nuapara Tr., Kantabanji, Kantabanji Tr.	00:05	0.00361	Incomer tripped at Khariar end.

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
248	Nuapada	29.05.20	13:27	13:31	00:04	132kV Khariar-Nuapada Line	Due to Over Current B-Ph Fault	Khariar,Nuapada, Nuapara Tr., Kantabanji, Kantabanji Tr.	00:04	0.00289	Incomer tripped at Khariar end.
249	Kesinga	29.05.20	16:35	17:50	01:15	132 KV VENTO SOLAR-2	O/C, E/F Relay	VENTO SOLAR	01:15	0.000029	
250	Bolangir	29.05.20	17:17	17:24	00:07	132KV KESINGA		acme, saintala, khariar, Nuapara Tr., nuapara,jusura, Kantabanji Tr., kantabanji	00:07	0.00762	
251	Tentulikhunti	29.05.20	17:25	17:37	00:12:00	132 KV Jayanagar-Tentulikhunti fdr	Tripped on over current	Tentulikhunti, Dabugaon, Umerkote	00:12	0.00577	Tripped due to 33KV Indravati feeder backup relay operated and CB not tripped
252	Chandikhhol	29.05.20	17:30	17:32	00:02	132KV Kendrapara-Chandikhole CKT-I	Tripped from Kendrapara, No relay indication at Chandikhhol Grid	Chandikhhol	00:02	0.000846	
253	Barbil	29.5.20	17:39	18:01	00:22	133 KV Barbil - Bolani-Beekay Steel fdr	Tripped as D/P relay operated with following indications at RKL grid end: Zone-1, Location-27.13Km, Tripped phase- A-G, IA=3.563kA, IB=263A, IC=4.145kA, IG=2.342kA	Barbil Grid, Bolani, Arya Steel, Nalda Traction, BRPL	00:22	0.01224	Power changeover done; power availed from Joda Grid S/S end.Delay in charge due to thunderstorm.
254	Kuchinda	30.05.20	00:08	01:57	00:46	132Kv Rajgangpur feeder (Incomer) tripped at Rajgangpur end		Kuchinda	00:02	0.00035	power restored from SMC end at 00:10 on dt 30.05.2020
255	Rajgangpur	30.05.20	00:08	01:58:00	01:50:00	132KV RGP-KUCHINDA	DP OPERATED BGT ZONE-1 LOC 21.58KM IB-3014A IG-2848A	BAMRA TSS	01:50:00	0.01016	BAD WEATHER HEAVY LIGHTENING
256	Palaspanga	30.05.20	01:30	01:34	00:04	132KV ESSAR feeder	O/c , Ia=0.12KA, Ib=0.19KA, Ic=0.10KA	ESIL	00:04	0.00068	O/C TRIP
257	Bargarh	30.05.20	01:42	01:47:00	00:05	40 MVA TRANSFORMER-I	EARTHFAULT	Bargarh	00:05	0.00464	INCOMER-I TRIPPED
		30.05.20	01:42	01:47	00:05	40 MVA TRANSFORMER-II	EARTHFAULT				INCOMER-II TRIPPED
		30.05.20	01:42	01:52	00:10	40 MVA TRANSFORMER-III	EARTHFAULT				INCOMER-III TRIPPED
258	Bargarh	30.05.20	01:58	02:07:00	00:09	40 MVA TRANSFORMER-I	EARTHFAULT	Bargarh	00:09	0.00835	INCOMER-I TRIPPED
		30.05.20	01:58	02:07	00:09	40 MVA TRANSFORMER-II	EARTHFAULT				INCOMER-II TRIPPED
		30.05.20	01:58	02:40	00:42	40 MVA TRANSFORMER-III	EARTHFAULT				INCOMER-III TRIPPED
259	Bargarh	30.05.20	02:51	02:57:00	00:06	40 MVA TRANSFORMER-I	EARTHFAULT	Bargarh	00:06	0.00557	INCOMER-I TRIPPED
		30.05.20	02:51	02:57	00:06	40 MVA TRANSFORMER-II	EARTHFAULT				INCOMER-II TRIPPED
		30.05.20	02:51	03:03	00:12	40 MVA TRANSFORMER-III	EARTHFAULT				INCOMER-III TRIPPED
260	Mania	30.05.20	03:25	03:53	00:28	ICCL MANIA INCOMER	R PHASE GROUNDED	Mania	00:28	0.00020	
		30.05.20	03:25	03:55	00:30	MANIA - OCL INCOMER	R PHASE GROUNDED				
261	Jagatsingpur	30.05.20	04:16	04:55	00:39	132KV JSPUR - PDP FDR	I/C power supply failed from PDP end with distance 2.1KM from PDP end	Jspur Grid S/S & Gorekhnath TSS	00:01	0.000561	Alternate supply availed from CTC end at 04:17 Hrs
262	Bolangir(New)	30.05.20	07:38	07:48	00:10	132KV Sadeipali-Patnagarh ckt-I	Tripped on back up o/c and e/f.	Patnagarh, Padampur	00:10	0.00515	
		30.05.20	15:45	15:50	00:05	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:05	0.000281	
263	Kesinga	31.05.20	00:41	00:44	00:05	132KV RTSS KESINGA	Directional O/C, E/F	TSS KESINGA	00:05	0.000281	
264	Palaspanga	31.05.20	07:04	07:07	00:03	132KV RTSS-KJR Feeder	O/C (R PH), Ia=221.2A, Ib=173.5A, Ic=82.7A, In = 0.04A, Ig= 5A	RTSS Keonjhar	00:03	0.00026	O/C TRIP
	Jharsuguda	31.05.20	08:01	20:58	12:58	132 kv jharsuguda-ultratech fdr	snapped conductor at loc no-32to 33	Ultratech	12:58	0.12272	
265	Palaspanga	31.05.20	13:53	13:57	00:03	132KV ESSAR feeder	O/c , Ia=0.13KA, Ib=0.21KA, Ic=0.09KA	ESIL	00:03	0.00051	O/C TRIP
		31.05.20	20:40	20:50	00:10	132kv JODA-PPG Feeder	O/C (R PH), Ia=429.5A, Ib=383.9A, Ic=321.9A, In = 0.06A, Ig= 2.43A	Palaspanga, Essar, Traction	00:10	0.00648	O/C TRIP
267	Rajgangpur	31.05.20	20:56	21:15:00	00:19:00	132KV RGP-KUCHINDA	DP OPERATED BGT ZONE-1 LOC-21.04KM IB-2887A IG-2872A	BAMRA TSS	00:19:00	0.00175	BAD WEATHER HEAVY LIGHTENING

STATEMENT OF UFR OPERATION IN GRIDCO SYSTEM DURING THE MONTH OF MAY-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 MAY - 2020		
Sl. No	Date	Details of event
1	06.05.2020	At 13:25 Hrs, 132 kV Marshaghai - Kendrapada(RTS) traction feeder charged.
2	30.05.2020	At 12:50Hrs, 220/132/33 kV Goda Grid S/S charged by LILO arrangement in 220 kV Meramundali - Duburi ckt -I along with 2 x160 MVA Auto Transformers & 1x40 MVA Power Transformer.