STATEMENT ON SYSTEM PERFORMANCE

(OCTOBER'21–DECEMBER'21)

OPTCL

Lifeline of Odisha

ORISSA POWER TRANSMISSION CORPORATION LIMITED

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A. POWER SUPPLY SECURITY

Format-A1

Load Restriction due to non availability of Generation

Year	Quarter	Month	Total Hrs.	* Duration of restriction (in HRs.)	Percentage of time load restricted
1	2	3	4	5	6
2021-22	3rd	OCTOBER	744	0.00	0.00
		NOVEMBER	720	0.00	0.00
		DECEMBER	744	0.00	0.00
Total			2208	0.00	0.00

* → SLDC is preparing the drawal schedule for discom considering the availability of power from all sources.
Load restriction is being done by the discom as and when required on rotation basis to curtail the demand.

Format-A2

Particulars of Generating Station which failed to meet forcasted requirement at the time of load restriction

(In relation to Format: A-1)

Year	Quarter	Month	Hour	Name of Generating Station	*Duration of failure to meet forecasted requirement (HRs.)				Quantum/ Percentage of Load Restriction Imposed
					Date	From	To	Total	
1	2	3	4	5		6	7	8	
2020-21	3rd	OCTOBER	744	-	-	-	-	-	-
		NOVEMBER	720	-	-	-	-	-	-
		DECEMBER	744	-	-	-	-	-	-

* ⟶Load restriction imposed in the state on rotation basis to curtail the demand.

Particulars of demand curtailed and areas affected due to failure of Generating Station to meet forcasted requirement at the time of load restriction

(In relation to Format: A-1)

Name of Gen. Station	Year	Quarter	Month	Hour	Duration of failure to meet forecasted requirement (HRs.)				L.R. Imposed in MW	Area / Consumer categories affected
					Date	From	To	Total		
1	2	3	4	5	6	7	8	9	10	11
-	2020-21	3rd	OCTOBER	744	-	-	-	-	-	Load restriction imposed in the state on rotation basis to curtail the demand.
			NOVEMBER	720	-	-	-	-	-	
			DECEMBER	744	-	-	-	-	-	

* ⟶Load restriction imposed in the state on rotation basis to curtail the demand.

B. TRANSMISSION SECURITY

Format-B1

Load Restriction due to non availability of Transmission Capacity, (Percentage of time)
(even though Generation was available)

Year	Quarter	Month	Total Hrs. of the month	Duration of restriction (in Hrs.)	Percentage of time load restricted [=(5/4) *100]
1	2	3	4	5	6
2021-22	3rd	OCTOBER	744	0.00	0.00
		NOVEMBER	720	0.00	0.00
		DECEMBER	744	0.00	0.00
Total			2208	0.00	0.00

* → Parital Load Restriction

B. TRANSMISSION SECURITY

Format-B2

Rescheduling of Generation due to non availability of Transmission Capacity, (Percentage of time)
(even though load restriction was not required)

Year	Quarter	Month	Total Hrs.	Duration of Generation rescheduled (HRs.)	Percentage of time Gen.rescheduled [=(5/4) *100]
1	2	3	4	5	6
2021-22	3rd	OCTOBER	744	-	-
		NOVEMBER	720	-	-
		DECEMBER	744	-	-
Total			2208	NIL	NIL

in loss of Transmission capacity and Grid Sub-stations affected.

Sl. No.	Substation	Date	From	To	Duration	Transmission element (Line / Tfr. / CB etc.)not available	Reason for non-availability of Transmission element (schedule maintenance outage / forced outage*)with details	Grid Sub-stations affected (it can be more than one)	Interruption time (Hr. Min.)	Extent of Generation Rescheduling		Energy lost in MU	Area affected	Feeders affected
										MW rescheduled or estimated capacity restriction affected	Time: This should match with hours of non-availability in a month in Format B-2 as the case may be			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Budhipadar	01.10.21	11:36	11:51	00:15	132KV Budhipadar -MCL CKT No-I	D/P operated in Zone-1, FD= 2.4677 Kms(13.55%), , FL= Bph-E, IL3= 9.76 KA, In=9.539KAmp	-	-	-	-	-	-	-
2	Nuapada	01.10.21	14:49	14:59	00:10	132kV Nuapada-Khariar Line	Master trip	-	-	-	-	-	-	-
3	Tarkera	01.10.21	22:05	15:55	17:50	220KV Tarkera-Bonai Ckt	DP,Trip Phase R,Y,BZone-I,Dist-16.630 KM,Rel Dist-37.29%,Loop-L3-L1, At bonai - Trip Phase R,Y,B-Zone-I,Distance-29.15 Km,IA-1.5KA,Ic-1.5 Ka [insulator Puncture at LOC No-592]	-	-	-	-	-	-	-
			22:05	14:24 02.10.21	16:19	220 KV Tarkera-Rengali Ckt-II	DP,Trip Phase R,Y,B,Zone-I,Distance-16.922KM,Rel Distance-11.51%, At Rengali- IA-1.94KA,IC-2.06KA,IN-1.05KA,IG-1.19KA							
4	Khurda	02.10.21	09:15	09:46	00:31	132KV Atri-Khurda Ckt-I	Directional O/C,E/F	-	-	-	-	-	-	-
5	Sambalpur	02.10.21	00:51	01:08	00:17	132 KV Sambalpur- Maneswar Feeder	Distance protection operated,Z1, R, Y, B Phase P/U, Flt Dist= 29.82KM, Flt Resistance = 90.24Megaohm, Ia=4026A, Ib=4228A, Ic=4038A	-	-	-	-	-	-	-
			02:24	02:37	00:13		Distance protection operated,Z1, R, Y, B Phase P/U, Flt Dist= 35.83KM, Flt Resistance = 132.8Megaohm, Ia=3630A, Ib=3720A, Ic=3560A							
			03:05	03:15	00:10		Distance protection operated,Z1, R Phase P/U, Flt Dist= 41.08KM, Flt Resistance = 38.69Megaohm, Ia=1420A, Ib=50A, Ic=78A							
6	Lapanga	02.10.21	08:25	11:18	02:53	400 KV Lapanga - OPGC	B- Phase E/F, Z-I, 7.4kms,11.52KA	-	-	-	-	-	-	-
7	Katapali	02.10.21	13:16	15:12	01:56	220KV Katapali-Hindalco ckt-I	Z-I,R-E,6.8Km,9.53KA	-	-	-	-	-	-	-
8	Tarkera	03.10.21	07:30	08:26	00:56	220KV Tarkera - Chandiposi Feeder	Tripped on SPS	-	-	-	-	-	-	-
						220KV Tarkera - Bonei Feeder								
9	Laxmipur	03.10.21	13:15	17:09	03:54	132 KV Laxmipur -Aditya CKT-II Feeder	DP Z-1,6.4km,Y-B Phase,6.9 KA	-	-	-	-	-	-	-
10	Nuapada	03.10.21	13:21	13:28	00:07	132kV Nuapada-Khariar Line	E/F	-	-	-	-	-	-	-
11	Mania	03.10.21	16:17	17:40	01:23	132 KV OCL - Salipur Feeder	Tripped due to Flash over	OCL & Salipur	00:04	-	-	0.0023819	Salipur	-
			16:17	16:19	00:02	132KV ICCL - mania	B Phase Ground Fault, DIR O/C, Instantaneous	mania	00:02					

12	Duburi	03.10.21	17:00	17:01	00:01	400KV New Duburi- Baripada	MAIN-1 DP R-PH PU,ZONE-1 TRIP,ZONE-1B TRIP,CARRIER SEND/RECEIVE,PU TIME=57ms,TRIP TIME=0ms,DIST=74.0 KM,IL1=3.82 KA MAIN-2 DP, R PH PU,ZONE-1 TRIP, Z-COM TRIP,CARRIER SEND/RECEIVE, DIST=75.28KM,IL1=3949.65 A, IL2= 151.07 A, IL3=51.33 A, Baripada END INDICATION-MAIN 1: R PH TO G,ZONE-1,IL1=3.30 KA,DIST=87.1 KM MAIN 2: ZONE -1, R PH TO GFault	-	-	-	-	-	-	-
13	Balasore	03.10.21	17:09	17:10	00:01	220KV Balasore-new Duburi Feeder	At Balasore end:Main-1: A-N, Z-I, 42.74Km, Ia-3.040KA.Main-2: L1-N, -1.00Km, Ia-314.64A, Z-1. At new Duburi end: Main-1: R Ph trip, Z-I, 2.13KA. Main-2:A-N, Z-I, Ia-2.247KA, 85.36Km	-	-	-	-	-	-	-
14	Joda	03.10.21	17:37	18:09	00:32	220KV Joda-Kenduposi Feeder.	Tripped at both end .AT Joda end : B/U relay : O/C pick up,Fault current : IL1=0.02KA,IL2=1.37KA,IL3=0.02KA AT KNPS end: B/U relay:E/F,Fault current IL1=0.37KA,IL2=0.43KA,IL3=0.29KA.	-	-	-	-	-	-	-
			17:39	18.00	06:21	220KV Joda-Jindal Feeder.	Tripped at both end .AT Joda end : B/U relay : O/C pick up,Fault current : IL1=4.22KA,IL2=0.01KA,IL3=0.01KA AT JSPL end: DP relay:Dist=1.580KM,FL=A-N,Zone-I,Fault current IL1=1.533KA,IL2=194.9A,IL3=56.43A.							
15	Anandapur	03.10.21	17:52	18:45	00:53	132KV Jajpur Road-Anandpur CKT-I	Tripped on distance protection -Zone-1,Fault Type-CN (B- Phase to Ground),Ic = 2.751KA ,distance=7.1Km, At Jajpur - Breaker Tripped and relay operated on backup protection (Distance-9.525miles, Ic=2.758KA)	-	-	-	-	-	-	-
16	Tarkera	03.10.21	22:21	23:19	00:58	132KV Tarkera-ROURKELA CKT-I	Backup Relay,At Rourkela - Zone-I,Distance-0.71 Km,IA--5.8 kA,IB-482 A,IC-669 A,IG-7.0 KA,O/C-R Phase, Earthfault	-	-	-	-	-	-	-
17	Tarkera	03.10.21	23.06	00:22 04.10.21	01:16	220 KV Tarkera-Rengali Ckt-II	Dp-Zone-I,Dist-27.393 Km,Rel Dist-18.63%,Loop-L3-N,IL3-5.34 KA,IN-5.5 KA.,At Rengali - IC-1.9 KA,IN-1.2 KA,IG-1.9 KA	-	-	-	-	-	-	-
			00:22 04.10.21	15:50	15:28	220 KV Tarkera-Rengali Ckt-II	Dp-Trip R,Y,B,Loop-L1-L2,Zone-I,Dist-27.08 Km,Rel Dist-18.42 % IL1-7.73 KA,IL2-8.69KA,IL3-8.12 KA,IN-11.54 A,							

18	Kalunga	03.10.21	23:15	1:01	1:47:00	132 KV Kalunga- Budhipadar	DP Relay- Tripped Phase- R-N, Zone-1,Fault location- 21.07 km,Fault duration- 51.82 ms, Ir-2.99 KA, Iy-42.34 A, Ib-124.8 A,Fault Resistance -1.422 ohm At Budhipadar - Fault Location:66.69 km, Zone-1, IL1: 1.3 KA	-	-	-	-	-	-	-
19	Budhipadar	04.10.21	01:42	07:47	06:05	132KV Budhipadar -Kalunga	D/P operated in Zone-1, FD= 60.58 Kms(59.99%), , FL= Rph-E, IL3= 1.44 KA, At Kalunga - Zone 1 trip, FL= Rph to E, Dist.- 31.16 km, IL1= 2.66KA	-	-	-	-	-	-	-
20	Rajgangpur	04.10.21	02:28	03:49	01:21	132KV Rajgangpur- Budhipadar Feeder	AGT, DP OPERATED,ZONE= I, LOC=4.14KM, Ia=5246A,Ib=94A,Ic=242A, Ig=5566A	-	-	-	-	-	-	-
21	Tarkera	04.10.21	03:52	11:51	07:59	220 KV Tarkera-RSP Ckt-I	Differential Relay- M1 B Phase Pickup,87 Trip,Intertrip,IL1-0.73 KA,Il2-1.15 KA,IL3-9.11 KA,Loop-L3-E, Distance-4.7 Km,Rel Dist-33.8%. Distance-1.206 Km,IA-555.3A,IB-1.15KA,IC-8.887 KA,IN-7.235 KA,Backup Relay IA-458A,IB-1.207KA,IC-9.194 KA	-	-	-	-	-	-	-
22	Tarkera	04.10.21	04:00	10:13	06:13	100 MVA AT-I	Buchholz Trip	-	-	-	-	-	-	-
23	Sambalpur	04.10.21	10:57	11:12	00:15	132 KV Sambalpur-Shyam DRI Feeder	Distance protection operated,Z1, Y Phase E/F, Flt Dist= 26.17KM, Ia=71A, Ib=2107A, Ic=58A, In=2089A, L/C, At SDRI- Distance protection operated,Z1, Y Phase E/F	Shyam DRI	00:15	-	-	0.0014644	-	-
24	Jharsuguda	04.10.21	12:10	21:01	08:51	132 kv Lapanga-Jharsuguda Feeder	trip O/C Y-Phase & snapped jumper at loc no-135,Fault -IA-444.1 A,IB-5535A,IC-687A,VAA-75.82KV,VBA-29.3KV,VCA-76.1KV	-	-	-	-	-	-	-
25	Narendrapur	05.10.21	00:44	03:22	02:38	132KV Narendrapur-Chatrapur CKT-I & II	Tripped [Y- Phase Jumper Snapped]	-	-	-	-	-	-	-
26	Joda	05.10.21	02:42	13:40	10:58	220KV TTPS- Joda CKT- I & II	Z-I,Li-N,Ic=IL1=1.82KAP,DP=72.23km	-	-	-	-	-	-	-
27	Bolangirnew	05.10.21	11:02	11:10	00:08	220KV Bargarh new-Bolangir new Feeder	Tripped on distance protection at Bolangir new end only. DP relay indication at this end:- 1) Started Phase A C N 2)Fault location 70.65KM 3) IA=1.584KA, IB=307.7A, IC=1.462KA 5)Fault resistance=1.159Ω 6) Tripped Zone-II	Bargarh ACC	00:08	-	-	0.0080191	Bargarh	-
			11:02	11:10	00:08	220KV Katapali-Bargarh new	At GSS Bargarh new-Tripped on Back up O/C protection							
			11:03	11:18	00:15	132 KV Bargarh - Katapali Feeder	Tripped							

28	Kendrapara	05.10.21	12:32	12:45	00:13	132KVKendrapara - Paradeep CKT-II	Tripped ON O/C,E/F WITH M/R, B-PH,Ir=166.96A,Iy=350.54A,Ib=2.136KA.	-	-	-	-	-	-	-
29	Meramundali	05.10.21	12:36	12:53	00:17	132 KV Rungta mines ltd.-Dhenkanal Steel Plant.	Tripped	Rungta DSP	00:17	-	-	0.0003950	-	-
30	Joda	05.10.21	12:42	13:40	00:58	220KV Joda-TTPS Ckt-I Feeder.	Tripped at both end . AT Joda end : DP main-1 relay:FL=L1-N,Zone-1, Dist=72.232KM,Fault current DP main-2 relay:,A/R optd.FL=AGT,Zone-I, Dist=58.55KM,Fault current AT TTPS end: DP relay: Zone-1, Dist=75.8KM,Fault current	-	-	-	-	-	-	-
			12:42	16:41	03:59	220KV Joda-TTPS Ckt-II Feeder.	Tripped at both end . AT Joda end : DP main-1 relay:FL=L3-L1,Zone-1, Dist=85.095KM,Fault current DP main-2 relay:FL=CAT,Zone-I, Dist=83.37KM, AT TTPS end: DP relay: Zone-1, Dist=81.13KM,Fault current IL1=2.34KA,IL2=104A,IL3=3.6KA. [at loc no.254 bottom conductor broken]	-	-	-	-	-	-	-
31	Joda	05.10.21	14:30	15:30	01:00	220KV Joda-TTPS Ckt-I Feeder.	Tripped at both end . AT Joda end : DP main-1 relay:FL=L3-L1,Zone-1, Dist=62.555KM,Fault current IL1=2399.35A,IL2=196.31A,IL3=2441.68A,IN=1851.85A DP main-2 relay:FL=CAT,Zone-I, Dist=56.78KM,Fault current A=2459A,B=189A,C=2446A,N=1861A,G=1865A AT TTPS end: DP relay: FL=L3-L1, Zone-1, Dist=75KM,Fault current IL1=2.574KA,IL2=158A,IL3=2.72KA.	-	-	-	-	-	-	-
32	Kendrapara	06.10.21	10:12	11:34	01:22	132KV Kendrapara-Salipur SC LINE	Tripped ON DP RELAY ,ZONE-1,Y-B-PH,Dist-17.6km,Ir=6.86A,Iy=2.28KA,Ib=2.278KA. Charged but immediately.	-	-	-	-	-	-	-
			11:34	19:16	07:42		Tripped on ZONE-1,Y- B-PH,Dist-25.45km, Ir=9.945A,Iy=2.477KA,Ib=2.444KA, and S/D issued on line.							
33	Joda	06.10.21	10:21	11:04	00:43	220KV Joda-Ramchandrapur Feeder.	Tripped at both end . AT Joda end : DP main-1 relay:Zone-1, SOTF optd.,Dist=95.28KM,Fault current IL1=304.1A,IL2=1.002KA,IL3=301.5A, AT RCPUR end: DP relay: Zone-1, Dist=44.00KM,Fault current IL1=0.30KA,IL2=2.88KA,IL3=0.30KA.	-	-	-	-	-	-	-
34	Khariar	08.10.21	11:02	11:05	00:03	132KV Kesinga-Khariar I/C Line Power Supply Failed.	Tripped From GSS Kesinga on Over load	Khariar, Kantabanji Kantabanji tr.	00:03	-	-	0.0027645	Khariar, Kantabanji	-

35	Pattamundai	07.10.21	18:14	18:38	00:24	132 KV Pattamundai-Rajnagar Ckt-I	Tripped on Distance protection (no zone), f1 trip ON, R,Y,B Ph pickup, IL1=0.0 kA, IL2=0.0 kA, IL3=0.0 kA[heavy lightning and thunderstorm]	-	-	-	-	-	-	-
36	Meramundali	08.10.21	14:27	16:54	02:27	400 KV Meramundali - Lapanga-II	Tripped	-	-	-	-	-	-	-
			14:27	14:56	00:29	400 KV Meramundali- Balangir PG								
37	Budhipadar	08.10.21	14:43	15:02	00:19	220KV Budhipadar - Tarkera Ckt-2	D/P Operated on Zone-I ,Fault Loop= R-Ph-E/F ,Fault Distance=59.3KM ,IL1=2.93KAmp and Master Trip, At Tarkera - D/P Operated on Zone-I ,Fault Loop= R-Ph-E/F,Fault Distance=43KM ,IL1=3.2KAmp ,In=3.4KAmp	-	-	-	-	-	-	-
			15:02	20:48	05:46	220KV Budhipadar - Tarkera Ckt-2	D/P Operated on Zone-I ,Fault Loop= R-Ph-E/F ,Fault Distance=53.9KM (49%) ,IL1=3.21KAmp							
38	Basta	08.10.21	16:20	17:09	00:49	132 KV Basta-Jaleswar Feeder	No tripping at Local end, At Jaleswar-Gen Trip, R-Ph O/C P/U, E/F P/U, IL1 : 0.3 KA, IL2:0.02 KA, IL3: 0.02KA [due to Bursting of 33 KV R-PH VCB LIMB at Basta]	-	-	-	-	-	-	-
39	Budhipadar	09.10.21	11:57	16:49	04:52	220KV Budhipadar - Tarkera Ckt-1	D/P Operated on Zone-I ,Fault Loop= B-Ph-E/F ,Fault Distance=25.8KM ,IL3=5.83KAmp , At Tarkera - D/P Operated on Zone-2 ,Fault Loop= B-Ph-E/F,Fault Distance=105.9KM ,IL3=1.5KAmp	Budhipadar AAL BHUSAN MCL	00:20 01:04			0.0844738	Budhipadar	
			11:57	12:26	00:29	220KV Budhipadar-IBTPS CKT-II	D/P Operated on Zone-I ,Fault Loop= R-Ph-E/F ,Fault Distance=15.78KM(62.4%) ,IL1=3.7KAmp ,In=3.7KAmp, At IBTPS- D/P Operated on Zone-1 ,Fault Loop= R-Ph-E/F							
			11:57	12:17	00:20	220KV Side of 160MVA Auto-I	Device Trip and LBB L123 in the indvidual Bus Bar Protection			-	-			-
			11:57	12:48	00:51	220KV Bus coupler								
			11:57	12:27	00:30	220KV Budhipadar- IBTPS CKT-IV								
			11:57	12:54	00:57	220KV Budhipadar- Lephripada								
			11:57	12:59	01:02	220KV Budhipadar-Lapanga CKT-II								
			11:57	13:01	01:04	220KV Budhipadar-AAL CKT-I								
			11:57	13:01	01:04	220KV Budhipadar-AAL CKT-II								
			11:57	13:04	01:07	220KV Budhipadar- IBTPS CKT-I								
			11:57	13:04	01:07	220KV Budhipadar- IBTPS CKT-III								
			11:57	13:18	01:21	220KV Budhipadar- SMC Unit-II								
			11:57	13:18	01:21	220KV Budhipadar-Vedant CKT-I								
			11:57	13:18	01:21	220KV Budhipadar-Vedant CKT-II								
			11:57	13:27	01:30	220KV Budhipadar- Korba CKT-I								
			11:57	13:27	01:30	220KV Budhipadar- Korba CKT-II								
			11:57	13:30	01:33	220KV Budhipadar-Bhshan CKT-I								
			11:57	13:31	01:34	220KV Budhipadar- Bhusan CKT-II								

			11:57	15:22	03:25	220KV Budhipadar- Raigarh PG								
40	Jharsuguda	09.10.21	12:03	14:20	02:17	132 kv Lapanga-Jharsuguda Feeder	dir O/C ,fault current-IA-2.244KA,IB-2.496KA,IC-382.2 A	-	-	-	-	-	-	-
41	Tarkera	09.10.21	12:03	16:49	04:46	220KV Tarkera- Budhipadar Ckt-I	Zone-II ,Loop-L3-E IL3-1.5KA Distance-105.9km RelDis-103.8%	-	-	-	-	-	-	-
42	Palaspanga	09.10.21	12.49	12.52	00:43	132KV RTSS-Karanjia Feeder	O/C (R PH), Ia=241.7A, Ib=215.3A, Ic=36.51A,Inm = 7.039A, Ind= 4.984A	**Karanjia RTSS**	00:43	-	-	0.0038799	-	-
43	Nuapatna	09.10.21	16:43	16:49	00:06	132KV Nuapatna-Arati Feeder	Tripped	-	-	-	-	-	-	-
			16:49	17:15	00:26									
			17:15	14:15	20:33									
44	Rairakhol	09.10.21	18:38	18:44	00:06	132 KV Rairakhol-Maneswar Feeder	THE Feeder Tripped AT Rairakhol GRID END ONLY ON B/U	Rairakhol Boinda	00:12	-	-	0.0031198	Rairakhol Boinda	-
			18:54	19:00	00:06									
45	Joda	10.10.21	08:36	18:51	10:15	132KV Joda-Kenduposi Feeder.	Tripped at Joda end only . AT Joda end : B/U relay :Dir. O/C Tripped, Fault current :IL1=0.16KA,IL2=5.67KA, IL3=5.59KA AT KNPS end:Not Tripped [at loc no.315 Y-Ph top conductor broken]	-	-	-	-	-	-	-
46	Kalunga	10.10.21	10:24	18:12	07:48	132 KV Kalunga- Budhipadar	DP Relay- Tripped Phase-B-N, Zone-1,Fault location- 77.56 km,Fault duration- 160 ms, Ir-202.0 A, Iy-82.49 A, Ib-836.9 A,Fault Resistance - 6.221 ohm At Budhipadar - Fault Location: 3km, Zone-1, L3-N, IL3-10 KA [insulator punctured at loc no 28]	-	-	-	-	-	-	-
47	Aska	10.10.21	13:54	14:00	00:06	132KV Bhanjanagar-Aska Ckt-2	SEL311C DP Relay BGT, 34.53Km,Fault Cureent- 2249 Amp, Zone-2 [Y-ph LA Burst]	-	-	-	-	-	-	-
			14:00	22:50	08:50									
48	Tentulikhunti	10.10.21	15:58	16:15	00:17	132KV Tentulikhunti - Jayanagar CKT-2	E/F	-	-	-	-	-	-	-
49	Baripada	10.10.21	22:01	22:39	00:38	132KV Baripada-Betnoti Line	Baripada end Back up Relay indication, Relay Trip,O/C Y-Phase,E/F ,.IL1=0.25KA,IL2=1.05KA,IL3=0.08KA,Betnoti end Relay Indication Distance Relay-Zone-2,Distance-56.21KM,.IL1=105.4A,,IL2=1.076KA,IL3=45.58A	Udala &Betnoti	00:38			0.0156960	Udala Betnoti	
			22:03	11:35 11.10.21	13:32	132KV Balasore-Udala Feeder	At Balasore end: DP relay: Trip B, G, Z-II, Dist-50.59Km, Ia-16A,Ib-1524A, Ic-16A,/U Relay: Y-Ph, O/C, E/F, IL2-1.51KA. At Udala end: Zone-I, Y-G, Distance=2.4Km, Fault current: Ir-0.19KA, Iy-1.30KA, Ib-0.14KA			-	-			-
			22:03	22:43	00:40	132 KV Udala-Betnoti	Source failuer.							

50	Sambalpur	10.12.21	23:35	18:44	19:09	133 KV BurlaPH-Sambalpur Feeder	Distance protection operated,Z1, R Phase P/U, Flt Dist= 12.6KM, Ia=3428A, Ib=639A, Ic=303A, In=2827A, L/C	-	-	-	-	-	-	-
51	Joda	11.10.21	08:26	09:02	00:36	132KV Joda-Kenduposi Feeder.	Tripped at Joda end only. AT Joda end : DP relay :Zone-I,Dist=2.497KM Fault current : IL1=92.27A,IL2=88.56A, IL3=266.4A AT KNPS end:Not Tripped	-	-	-	-	-	-	-
52	Mania	11.10.21	11:54	12:03	00:09	132KV ICCL - mania feeder	R Phase Ground Fault	mania,OCL & Salipur	00:09	-	-	0.0050392	Salipur	-
53	Palaspanga	12.10.21	11:07	11:11	00:04	132KV Palaspanga - Joda Feeder	E/F (Y-PH), Ia=398.3 A, Ib=1425.8 A, Ic=255.7 A,In = 0.11 A, Ig= 1032.87A	Palaspanga ESIL,MSP OSISL Pattanayak Steel Palaspanga Tr.	00:04	-	-	0.0035712	Palaspanga	-
			11:07	11:15	00:08	132KV RTSS-Karanjia Feeder	E/F (Y PH), Ia=90.94A, Ib=1.701KA, Ic=95.41A,Inm = 1.7KA, Ind= 1.7KA		00:08					
54	Budhipadar	13.10.21	12:35	16:38	04:03	220KV Budhipadar Bhushan Ckt II	D/P operated, Zone 1 trip, F.L- Bph to E, IL1- 1.32 KA, IL2- 1.69KA, IL3- 6.24KA, Iln- 3.22KA, Dist- 14.9KM	-	-	-	-	-	-	-
55	Chandpur	15.10.21	07:20	07:21	00:01	132KV Chandpur-Balugaon	General trip, DP relay operated B-N ,Zone-1, Distance- 18.8KM, IL1= 0.01KA, IL2=0.01KA, IL3=1.35KA	-	-	-	-	-	-	-
56	Dhenkanal	15.10.21	08:01	10:25	02:24	132KV Dhenkanal-Meramundali Feeder	Only DP relay operated with indication:R_N,Dist=17.17KM,Ir=2.31 KA,Z-1, only DP relay operated with indication:R_N,Dist=22.8KM,Ir=4.4K	-	-	-	-	-	-	-
			08:02	08:31	00:29	132KV Nuapatna-Khajuriakata-Denkhanal 'T' line								
57	Chandpur	15.10.21	11:23	11:31	00:08	132KV Chandpur-Atri	No tripping at Chandpur end. Tripping at Atri end.-DP operated ,86A OPTD,86B OPTD,DP relay-Y-B-Phase Zone-1, distance-34.69km [lightening]	Chandpur	00:08	-	-	0.0013009	Chandpur	-
58	Budhipadar	15.10.21	15:52	16:06	00:14	132KV Budhipadar -MCL Ckt No-I	D/P operated, Zone 3 trip, F.L- Bph to E, IL3- 3.436KA, ln- 3.272KA, Dist- 22.826KM (125.42%) and B/U Relay Operated R-Ph PU, B-Ph PU O/C PU ,L3 Trip Il3=3.43KAmp	-	-	-	-	-	-	-
59	Rairakhol	16.10.21	10:20	10:26	00:06	132 KV Rairakhol-Maneswar Feeder	At Rairakhol- tripped on Earth Fault	Rairakhol , Boinda	00:11	-	-	0.0028598	Rairakhol , Boinda	-
			17:41	17:46	00:05									
60	Budhipadar	16.10.21	16:23	15:20 18.10.21	46:47	132KV Budhipadar Kalunga	D/P operated: R Y B, Zone 1 trip, F/L-L1-E,Fault Dist: 14.891km(14.74%) Il1-4.3 KA, In- 4.5KA, At Kalunga - D/P operated, Zone 1,Fault loop- Rph to E,Fault distance- 69.75KM, Il1=918Amp[Weather condition:- Rainy and thunderstrom]	-	-	-	-	-	-	-
61	Padampur	17.10.21	11:52	14:20	02:28	132KV SOLAR Feeder	Tripped from Solar end due to Flashover in the Solar panel	-	-	-	-	-	-	-

62	Padampur	18.10.21	12:15	12:23	00:08	132KV Padampur- Patnagarh Incomer	O/C & E/F Relay Operated at Patnagarh end Only. Phase-CN, Ia=221.3A, Ib=445.2A, Ic=1.736KA	Padampur,Nuapa	00:08	-	-	0.0049016	Padampur,N	-
63	Tirtol	18.10.21	14:00	14:05	00:05	132KV Tirtol-Paradeep Feeder 132KV Tirtol-Jagatsinghpur Feeder	B-N(Y-PH),Z-1,DIST-6.415 KMS,IA-552.6A,IB-94.5 A,IC-357.8A	Tirtol,Jagatsingh pur	00:05	-	-	0.0035645	Tirtol,Jagat singhpur	-
64	Duburi	18.10.21	15:04	15:04	00:00	400KV new Duburi- Baripada	MAIN-1 DP-R-PH PU,ZONE-1 TRIP,CARRIER SEND/RECEIVE,PU TIME=60ms,TRIP TIME=0ms,DIST=8.8 KM,IL1=9.95 KA MAIN-2 DP R-PH PU,ZONE-1 TRIP,CARRIER SEND/RECEIVE,DIST=8.58 KM,IL1=10.05 KA Baripada END INDICATION- MAIN 1: R PH TO G,ZONE-2 CARRIER AIDED TRIP,IL1=1.91KA,DIST=162.1 KM MAIN 2:R PH TO G,ZONE-2 CARRIER AIDED TRIP,IL1=2.013 KA,DIST=165.35 KM	-	-	-	-	-	-	-
65	Tarkera	19.10.21	03:26	14:08	10:42	220 KV Tarkera-Bonai 220 KV Tarkera-Rengali Ckt-II	MT	-	-	-	-	-	-	-
66	Meramundali	19.10.21	11:49	12:33	00:44	400 KV Meramundali - Lapanga-II		-	-	-	-	-	-	-
67	Angul	19.10.21	15:45	16:09	00:24	132 KV Angul - MCL-1	At MCL end CB Tripped with E/F &O/C (R&B-ph) .Fault abs.dist=8.8 kmFault loop=L1NFault Current IL1=4.5KA,IL2=0.22KA,IL3=0.233KA [Weather condition Heavy rainfall and severe lightning.]	-	-	-	-	-	-	-
68	Budhipadar	19.10.21	17:15	17:54	00:39	132KV Budhipadar - Kalunga	D/P operated, Rph to E trip, Zone 1 trip, Distance trip, Dist= 50.423km, IL1-1.719 kA,At Kalunga - D/P operated, Rph to E trip, Zone 1 trip, Distance trip, Dist= 45.88 km, IL1- 1.634 kA	-	-	-	-	-	-	-
69	Joda	20.10.21	00:57	09:07	08:09	220KV Joda-JSPL Feeder.	Tripped at Joda end with following indication: AT Joda end: DP relay ,FL: L1-L2,Zone-I, Dist=17.22KM,Fault Current: IL1=912.2A,IL2=911.89A,IL3=913.40 A,In=0.15A	-	-	-	-	-	-	-
70	Sambalpur	20.10.21	08:05	11:12	03:07	132 KV Katapali-Sambalpur Feeder	Distance protection operated,Z1, Flt Di,st. = 1.14KM, B Phase E/F, Ia-108A, Ib- 228A, Ic- 5653A, Ig=5921A, At Sambalpur-Distance protection operated,Z2, B Phase E/F	-	-	-	-	-	-	-
71	Nuapatna	20.10.21	14:55	15:11	00:16	132KV Nuapatna-Arati Feeder	Tripped	-	-	-	-	-	-	-
72	Tarkera	20.10.21	17:50	13:01 24.10.21	91:11	220 KV Tarkera-Bonai 220 KV Tarkera-Rengali Ckt-II	MT	-	-	-	-	-	-	-

73	Khariar	21.10.21	14:30	14:40	00:10	132KV Kesinga-Khariar I/C	Tripped From GSS Laltikira on Over load	Tushra,Saintala, Khariar ,Nuapada ,Kantabanji, ,Kantabanji Tr., Deogaon Tr.	00:10	-	-	0.0131584	Tushra,Saintala, Khariar ,Nuapada ,Kantabanji	-
74	Barpali	22.10.21	02:15	02:19	00:04	132KV RTSS	Over Current	Barpali RTSS	00:04	-	-	0.0002833	-	-
75	Dhenkanal	23.10.21	12:35	13:00	00:25	132KV Dhenkanal-Khutuni Feeder	O/C.Only DP relay operated with indication:L2_L3,Dist=7.2KM,L2=5.376KA,L3=5.41KA,Z-1.	Khuntuni,Shree cement	00:25	-	-	0.0041718	Khuntuni	-
76	Tarkera	24.10.21	19:43	11:55 25.10.21	16:02	220 KV Tarkera-Bonai	MT	-	-	-	-	-	-	-
77	Tarkera	24.10.21	20:15	11:56 25.10.21	15:41	220 KV Tarkera-Rengali Ckt-II	MT	-	-	-	-	-	-	-
78	Tarkera	25.10.21	17:01	14:07 27.10.21	47:06	220 KV Tarkera-Bonai 220 KV Tarkera-Rengali Ckt-II	MT	-	-	-	-	-	-	-
79	Nuapatna	25.10.21	20:52	21:04	00:12	132KV Nuapatna-Arati Feeder		-	-	-	-	-	-	-
80	Tentulikhunti	26.10.21	12:34	12:40	00:06	132KV Tentulikhunti -Jayanagar CKT-1	At Jayanagar-Tripped	-	-	-	-	-	-	-
81	Tentulikhunti	26.10.21	13:07	13:13	00:06	132KV Tentulikhunti - Dabugaon Feeder.	At Dabugaon- DP operated at a Distance of 131.4KM,Zone 3	Dabugaon Umerkote GSS	00:06	-	-	0.0027513	Dabugaon Umerkote	-
82	Tarkera	27.10.21	16:38	08:03 29.10.21	39:25	220 KV Tarkera-Bonai	MT	-	-	-	-	-	-	-
			16:38	12:06 31.10.21	19:28	220 KV Tarkera-Rengali Ckt-II								
83	Tarkera	29.10.21	18:54	12:06 31.10.21	41:12	220 KV Tarkera-Bonai	MT	-	-	-	-	-	-	-
84	**Barkote**	30.10.21	08:33	08:40	00:07	220KV BARKOTE-BONAI Feeder	Tripped Phase ABC,Zone-I,Location-3.112km,IA- 13.98A,IB- 42.75A,IC-38.34A,Van- 589.8V,Vbn-134.8KV,Vcn- 133.9KV Fault Resistance- 1.89Ohm,Trip loop-AGT,location- 5.16km,Zone-1,IA-182A,IB- 49A,IC- 42A,IN- 199A	-	-	-	-	-	-	-
85	Somanathpur	30.10.21	15:00	19:47	04:47	Somanathpur-Emami Feeder	At Balasore end:Z-2 Trip, Z-3 Trip, B-N, Ir-90.89A, Iy-157.9A, Ib-8291A [B-Ph LA of 132KV M/S Emami Feeder burst at Somanathpur Grid end]	Somanathpur Stork Fdr Emami	00:42	-	-	0.0188868	Somanathpur	-
			15:00	15:42	00:42	Somanathpur-Balasore Feeder			04:47					
86	Jaleswar	30.10.21	16:53	11:28	18:31	132 KV Kuchei-Jaleswar CKT-1	Tripped From Both End	-	-	-	-	-	-	-
87	Budhipadar	31.10.21	10:02	19:57 01.11.21	33:55	220KV Budhipadar - Lapanga Ckt-I	D/P operated, B-ph trip, Zone 2,Fault loop C-N, Fault Dist.- 19.59 km, Ia-632 A, Ib- 1.42 KA, Ic- 7.2KA,At Lapanga - D/P operated, Bph to NFault, Dist.- 1.5km, Ic- 20.5 KA [Bph insulator string was punctured at Loc No. 50/01]	-	-	-	-	-	-	-
88	Tarkera	31.10.21	15:46	16:12	00:26	220 KV Tarkera-Rengali Ckt-II 220 KV Tarkera-Bonai	MT	-	-	-	-	-	-	-
89	Tarkera	31.10.21	16:40	22:03	05:23	220 KV Tarkera-Rengali Ckt-II 220 KV Tarkera-Bonai	MT	-	-	-	-	-	-	-

90	Tarkera	31.10.21	23:51	14:02 05.11.21	110:11	220 KV Tarkera-Rengali Ckt-II 220 KV Tarkera-Bonai	MT	-	-	-	-	-	-	-
91	Bhadrak	01.11.21	12:00	12:09	00:09	132kV Bhadrak-Jajpur town	O/C & E/F,Il1=0.13 KA,Il2=2.17 KA,Il3=0.13 KA	-	-	-	-	-	-	-
92	Barkote	01.11.21	18:54	19:25	00:31	220kV Barkote-Deogarh Feeder	**Local End**:- DP relay operated: Ia-300.4A, Ib-2.879KA, Ic-154.6A, Van-149.4KV, Vbn- 2.89KV, Vcn- 148.7KV, Zone-4, Fault Resisrance- 915.1Mohm **Remote End**:- DP Relay operated, Zone-2, Loop- L2-E, Ia- 0.3KA, Ib-2.83KA, Ic- 0.15KA, Distance- 19.9KM, Fault resist- 85.9%	Barkote Bonai	00:31	-	-	0.0087907	Barkote	-
93	Chhend	02.11.21	00:11	00:14	00:03	132 KV Nuagaon traction	Triped on O/C, R-phase, IL1-0.16 KA,IL2-0.16KA,IL3-0.00KA, Trip Relay 86B & O/C Relay	Nuagaon tr	00:03	-	-	8.711E-05	-	-
94	Ganjam	02.11.21	03:50	04:19	00:29	132kV Chatrapur-Ganjam	Supply Failure from Chatrapue end.	Ganjam GRASIM	00:29	-	-	0.0122895	Ganjam	-
95	Meramundali	02.11.21	23:32	23:54	00:22	132kV RUNGTA Ferroy Alloy	O/C Trip,IR=99.86 A,IY=72.58 A,IB=90.89 A,M/T	RUNGTA	00:22	-	-	0.0005792	-	-
96	Muniguda	03.11.21	08:51	08:52	00:01	132 kV RTSS Bissam	Over Current Ia= 212 A, Ib= 209.6 A	RTSS Bissam	00:01	-	-	9.154E-05	-	-
97	Tarkera	04.11.21	00:29	14:55	14:26	220kV Budhipadar- Tarkera ckt-I	Tripped on DP: General Trip,Y-Pickup,B Pickup, Zone- I, Loop= L2-L3,PU time-44 ms.[cable from CVT junction box to control room was cut.]	-	-	-	-	-	-	-
98	Jayanagar	04.11.21	10:19	12:12	01:53	220kV Jayanagar- U.Kolab ckt-I	**Local End:-** DP relay operated. Zone-2, Ir=6kA, Dist=56km	-	-	-	-	-	-	-
			10:19	12:05	01:46	220kV Jayanagar- Jeypore PG ckt-I,III	**Tripped**							
99	Rengali	04.11.21	14:08	15:55	01:47	220kV Rengali- TTPS	Local End:- DP relay operated. Zone-1, R-ph to Earth fault,Ir=3.951kA,Dist-44.73km	-	-	-	-	-	-	-
100	Bhadrak	05.11.21	02:51	04:30	01:39	132kV Incomer-I	Instataneous Over current & Earth fault	Bhadrak Bhadrak Tr. Facor Facor Power Jajpur Town Soro	00:15 00:19	-	-	0.0246888	Bhadrak Jajpur Town Soro	-
			04:20	04:35	00:15	132kV Bhadrak-Facor	Tripped due to overloading of 132kV Bhadrak-Soro feeder on 132 kv Main bus							
			04:20	04:35	00:15	132kV Bhadrak-Facor Power								
			04:20	04:31	00:11	132kV Bhadrak-Railway Traction								
			04:20	04:35	00:15	132kV Bhadrak-Soro								
			04:16	05:07	00:51	132 kV Soro-Balasore Feeder	**At Balasore Grid** :- Backup Relay O/C Y-ph, IL1-0.43KA, IL2-0.50KA, IL3-0.49KA							
			04:20	04:35	00:15	132kV Bhadrak-Jajpur town	H/T							
101	Joda	05.11.21	05:56	09:05	03:09	132kV Joda- Barbil feeder	Tripped at both end . **AT Joda end** : DP relay,BCT,Dist=8.32KM,Fault current IL1=2A,IL2=5590A,IL3=5035A, N=1A,G=3965A **AT Barbil end:** DP relay: Zone-1, Dist=3.667KM, Fault current IL1=196.2A,IL2=410.9A,IL3=517.7A.	-	-	-	-	-	-	-
102	Tarkera	05.11.21	06:57	00:16 10.11.21	104:47	220 kV Tarkera -Bonai	Master Trip Operated [SPS]	-	-	-	-	-	-	-
			06:57	00:11 10.11.21	104:42	220 kV Tarkera -Rengali-II								

103	Jayanagar	05.11.21	10:19	12:09	01:50	220kV Jayanagar- Jeypore PG ckt-IV	**Tripped**	-	-	-	-	-	-	-
104	Bhanjanagar	05.11.21	11:48	13:41	01:53	220kV Mendhasal feeder	AGT,Z-1,D=68.35KM IF=1.4KA	-	-	-	-	-	-	-
105	Saintala	06.11.21	02:57	02:59	00:02	132 kV Tushra-Saintala feeder	**Local End**:- No indication **Remote End**:- Earth fault at Old Bolangir	Saintala, Tusura, Deogaon tr. Khariar Kantabanji Kantabanji Tr.	00:02	-	-	0.0017362	Tusura, Khariar Kantabanji	-
			02:57	02:59	00:02	132kV Kesinga-Khariar I/C line power supply failed.	Tripped From ACME SOLAR on O/C							
106	Muniguda	06.11.21	04:12	04:13	00:01	132 kV RTSS Bissam Cuttack	Over Current Ia= 212 A, Ib= 209.4 A	RTSS Bissam	00:01	-	-	9.154E-05	-	-
107	Meramundali	06.11.21	08:26	09:01	00:35	132kV RML-DSP	**Local End**:- O/C Trip,IR=49.25 A,IY=49.3 A, IB=48.24 A, M/T, **Remote End**:- M/T	RML-DSP	00:35	-	-	0.0103472	-	-
108	Kesura	06.11.21	15:15	19:22	04:07	132kV Ranasinghpur-Kesura feeder	**Local End**:-DP Relay indication at Kesura end: Dist.: 20.02km, Ia=2.053kA, Ib=73.25A, Ic=7.273A, Zone-1, **Remote End**:-DP Relay indication at Ranasinghpur end: Dist.: 677.9m, Ia=4.292kA, Ib=82.94A, Ic=20.29A [*R-Ph Disc insulator string of 132KV Kesura – Ranasinghpur feeder was snapped at Loc. No.88J with heavy flashover at R-Ph LA at Ranasinghpur end]	-	-	-	-	-	-	-
109	Akhusingh	07.11.21	09:31	09:40	00:09	Akhusingh-Rayagada line	Tripped	-	-	-	-	-	-	-
110	Bhanjanagar	08.11.21	11:24	11:37	00:13	220kV Therubali Ckt-1	AGT,Z-1,D=111.615KM IF=2107A	-	-	-	-	-	-	-
111	Meramundali	08.11.21	12:54	13:03	00:09	400kV Lapanga-II	Tripped from Meramundali end only with VT Fuse failure.	-	-	-	-	-	-	-
112	Meramundali	09.11.21	03:39	03:51	00:12	132kV Rungta ferro Alloy	O/C Trip,IR=63.24 A,IY=99.21 A,IB=41.11 A,M/T	Rungta ferro Alloy	00:12	-	-	0.0003159	-	-
113	Tarkera	09.11.21	05:54	11:18	05:24	100 MVA Auto-I	Master Trip Operated,Buchholz Trip,OTI alarm,Trip Circuit 1 & 2 Faulty.	-	-	-	-	-	-	-
114	Rajgangpur	10.11.21	04:51	05:02	00:11	132 kV Kuchinda Feeder	AGT, DP Operated, Zone= I, LOC=3.69km, Ia=6236A, Ig=6168A	-	-	-	-	-	-	-
115	Meramundali	10.11.21	07:04	07:10	00:06	132kV Rungta ferro Alloy	Y-Ph Directional O/C Trip,IR=80.88 A,IY=100.5 A,IB=54.54 A,M/T	Rungta ferro Alloy	00:06	-	-	0.000158	-	-
116	Palaspanga	10.11.21	07:33	07:36	00:03	132 kV RTSS - Karanjia Feeder	O/C (R PH), Ia=239.4A, Ib=216.6A, Ic=39.18A,Inm = 6.565A, Ind= 4.793A	RTSS - Karanjia	00:03	-	-	0.0003062	-	-
117	Kamakhyanagar	10.11.21	08:25	16:16	07:51	132kV Kamakhyanagar-Duburi	-	-	-	-	-	-	-	-
118	Lapanga	10.11.21	13:43	13:47	00:04	132kV Lapanga-SMC feeder	Local End:- DP relay operated. Zone-1, Y-ph to Earth fault,Ir=9.1kA,Dist-1.9km	SMC	00:04	-	-	9.348E-05	-	-
119	Akhusingh	10.11.21	14:35	14:56	00:21	Akhusingh-Rayagada line	Tripped	-	-	-	-	-	-	-
120	Bhadrak	10.11.21	15:03	15:20	00:17	132kV Bhadrak-Traction	B-PH,Y-PH O/C,If=0.29 KA.	Bhadrak-Tr	00:17	-	-	0.0019489	-	-
121	Tarkera	10.11.21	16:19	09:31 15.11.21	113:12:00	220 kV Tarkera -Bonai	SPS	-	-	-	-	-	-	-
			16:19	22:12 16.11.21	149:53:00	220 kV Tarkera -Rengali-II	Master Trip Operated							
122	Rourkela	11.11.21	11:27	11:41	00:14	132kV Rourkela- Barbil	O/C	-	-	-	-	-	-	-
123	Sambalpur	11.11.21	22:00	22:10	00:10	132 kV Sambalpur- Maneswar Feeder	**Local End**:- Distance protection operated,Z1, R phase P/U, Flt Dist= 8.089km, Flt Resistance = 8.674ohm, Ia=4047A, Ib=190.6A, Ic=228.6A **Remote End**:- No tripping	Maneswar	00:10	-	-	0.0005787	Maneswar	-
124	Laxmipur	12.11.21	06:38	06:59	00:21	220kV Laxmipur- Aditya-II	Bph-Earth fault[Bamboo tree fallen on	-	-	-	-	-	-	-

			06:59	13:15	06:16		B-ph at 28.8km from Laxmipur end.]	-	-	-	-	-	-	-
125	Bolangir	12.11.21	16:23	16:24	00:01	132kV Kesinga-Bolangir	O/C ,E/F	Acme,Saintala, Khariar,Tusura, Deogaon tr. Kantabanji, Kantabanji Tr.	00:01	-	-	0.0008681	Saintala, Khariar,Tusura, Kantabanji,	-
			16:23	16:24	00:01	132kV Kesinga-Khariar I/C	Tripped From GSS laltikira							
			16:23	16:24	00:01	132 kV Tushra-Saintala feeder	**Local End**:- No indication **Remote End**:- Over current and Earth fault at Old Bolangir GSS							
126	Mendhasal	13.11.21	15:55	17:31	01:36	132kV Mendhasala - Chandaka fdr	Trip due to CB problem.	-	-	-	-	-	-	-
127	Bhawanipatna	13.11.21	18:17	18:20	00:03	132kV Kesinga I/C	132kV Power supply fail	Bhawanipatna Lanjigarh Tr.	00:12	-	-	0.0028474	Bhawanipatna	-
			18:51	19:00	00:09									
128	Muniguda	13.11.21	18:51	18:59	00:08	132 KV Kesinga	Over Current Ia= 400 A, Ib= 490 A, Ic= 510 A	RTSS Bissam	00:10	-	-	0.0009154	-	-
			18:53	18:55	00:02	132 kV RTSS Bissam Cuttack	Over Current Ia= 210 A, Ib= 207.6 A							
129	Budhipadar	14.11.21	02:30	07:09	04:39	132kV Budhipadar- Lapanga	**Local End**:- DP operated. Rph-Earth fault, Zone-1, If=6.04kA, Dist-11.5km **Remote End**:- DP operated. If=8.14kA, Dist-3.5km	-	-	-	-	-	-	-
130	Akhusingh	14.11.21	09:46	09:55	00:09	Akhusingh-Rayagada line	Tripped	-	-	-	-	-	-	-
131	Bargarh	14.11.21	12:17	15:25	03:08	132kV Bargarh new feeder	Over Current [33kVMain Bus Y-Ph disc insulator puncture.]	-	-	-	-	-	-	-
132	Jaleswar	14.11.21	12:43	13:18	00:35	132kV Kuchei-Jaleswar Ckt-1	**Jaleswar End**:- DP operated. Y-ph to ground fault, Zone-1,If=1.36kA	-	-	-	-	-	-	-
133	Mendhasal	14.11.21	13:56	14:35	00:39	220kV Mendhasal- Nayagarh	Tripped	-	-	-	-	-	-	-
134	Sambalpur	14.11.21	16:16	16:30	00:14	133 kV Sambalpur- Maneswar Feeder	**Local End**:- Distance protection operated,Z1, R phase P/U, Flt Dist= 8.538km, Ia=3897A, Ib=1761A, Ic=2149A **Remote End**:- No tripping	Maneswar	00:14	-	-	0.0008102	Maneswar	-
135	Kesura	15.11.21	14:27	16:51	02:24	132kV Ranasinghpur-Kesura feeder	**Local End**:-DP relay operated at Kesura end: Distance=15.37KM , Zone-1 , Ia=19.05A, Ib=2.282KA, Ic=47.49A, **Remote End**:-DP relay operated at Ranasinghpur end: Distance=3.993KM, Ia=16.43A, Ib=3.784KA, Ic=43.39A	-	-	-	-	-	-	-
136	Tarkera	15.11.21	17:59	08:14 16.11.21	14:15	220 kV Tarkera -Bonai	Master Trip Operated	-	-	-	-	-	-	-
137	Shamuka	15.11.21	18:52	20:10	01:18	Atri-Shamuka Line	**Local End**:- Breaker Didn't Tripped at Shamuka **Remote End**:-Breaker Tripped at Atri End. Distance- 17.93 Km Zone-Z1 ,Iy= 5.66kA, Ib=5.38kA	-	-	-	-	-	-	-
138	Samangara	15.11.21	20:52	21:09	00:17	132 kV Samangara-RTSS Malatipatpur feeder	O/C, B-PH, 86 OPTD. Ia=55.52A, Ic=55.50A	Malatipatpur RTSS	00:17	-	-	0.0002504	-	-
139	Samangara	16.11.21	04:51	05:03	00:12	133 kV Samangara-RTSS Malatipatpur feeder	O/C, B-PH, 86 OPTD. Ia=54.88 A, Ic=56.02 A	Malatipatpur RTSS	00:12	-	-	0.0001767	-	-
140	Tarkera	16.11.21	17:04	22:12	05:08	220 kV Tarkera -Bonai	SPS	-	-	-	-	-	-	-
141	Bolangir New	16.11.21	17:36	17:54	00:18	132 kV Bolangir New-Sonepur Ckt-I	Tripped on earth fault observed in back up relay at this end only. Back up relay indication at this end:- 1) Started phase A B N 2) IA=556A, IB=2.394KA, IC=254A 3) IN measured 1.692KA	Sonepur & Boudh	00:18	-	-	0.0105745	Sonepur & Boudh	-

142	Sonepur	16.11.21	17:40	17:55	00:15	132 kV New Bolangir-Sonepur Ckt-I line	Supply failed from GSS, Bolangir New	Boudh	00:15	-	-	0.0009747	Boudh	-
			17:41	17:56	00:15	132kV Sonepur-Boudh line Tripped	Earth fault							
143	Muniguda	16.11.21	20:13	20:14	00:01	132 kV RTSS Bissam Cuttack	Over Current Ia= 212.2 A, Ib= 209.8 A	RTSS Bissam	00:02	-	-	0.0001831	-	-
			20:18	20:19	00:01		Over Current Ia= 212.2 A, Ib= 209.6 A							
144	Tarkera	17.11.21	00:42	23:18	22:36	220 kV Tarkera -Bonai	SPS	-	-	-	-	-	-	-
			00:42	23:18	22:36	220 kV Tarkera -Rengali-II								
145	Akhusingh	17.11.21	08:30	08:51	00:21	Akhusingh-Rayagada line	Tripped	-	-	-	-	-	-	-
146	Muniguda	17.11.21	07:16	07:17	00:01	132 kV RTSS Bissam Cuttack	Over Current Ia= 211 A, Ib= 208.6 A	RTSS Bissam	00:01	-	-	9.154E-05	-	-
147	New Duburi	18.11.21	11:40	14:04	02:24	220kV New Duburi-Jindal Circuit-1	**Local End**:-O/C & E/F Protection operated, K67 O/C Operated. MAIN-1 DP Distance pick up only. MAIN-2 DP Distance pick up only, Back up relay K67 Overcurrent/Back up Relay indication:- pu time -496ms,Trip Time-416 ms, General Trip, Rph Pick up , Earth Fault pickup, Fault current IL1-11.42KA, IL2-0.0KA, IL3-0.0KA **Remote End**:- Zone -1 DT, FAULT CURRENT-IL1=9.653KA, IL2=778A, IL3=768A [Y-phase air leakage problem.]	Jindal	00:14	-	-	0.0023726	-	-
			11:40	11:54	00:14	220kV New Duburi-Jindal-2	tripped at their end only							
148	Akhusingh	18.11.21	17:19	17:26	00:07	Akhusingh-Rayagada line	Tripped	-	-	-	-	-	-	-
149	Tarkera	18.11.21	18:07	22:05	28:29	220 kV Tarkera -Bonai	SPS	-	-	-	-	-	-	-
				19.11.21		220 kV Tarkera -Rengali-II								
150	Salipur	18.11.21	18:07	18:13	00:06	132 kV OCL-Salipur Ckt - I	Tripped	OCL Mania	00:06	-	-	0.0011921	Mania	-
151	Chhend	19.11.21	14:35	18:19	03:44	132 KV Tarkera-Chhend Ckt-1	**Local End**:-Tripped on distance protection. BGT,Location=2.50 km, Zone 1, A=257, B=4444, C=106, G=4790, 3I2=4348, In Back up Rely- E/F & O/C Y-Phase **Remote End**:- DP Relay- BGT, Fault location-4.37km, Zone- 1, IA=239.7A, IB=7426A, IC=89A , IG=7106 A, Master Trip operated. [Earth wire snapped.]	-	-	-	-	-	-	-
			14:35	18:50	04:15	132 kV Tarkera-Chhend-II	**Local End:-DP** Loop-B-G-T,Location-4.37 Km, Zone-I,IA-239.7 A,IB-7426 A,IC-89A,IG-7106AMaster Trip **Remote End**:-DP Loop-B-G-T,Location-2.5 Km, Zone-I,IA-257 A,IB-4444 A,IC-106A,IG-4790A,Backup Relay:- O/C-Yphase and Earth Fault. [Earth wire snapped between Loc-19 and 20]							
152	Kesinga	19.11.21	16:34	16:47	00:13	132kV Kesinga-Bhawanipatna	132kV Power supply fail	Bhawanipatna Lanjigarh Tr Khariar Kantabanji Kantabanji Tr. Muniguda Tr.	00:13	-	-	0.012467	Bhawanipatna Khariar Kantabanji	-
			16:34	16:44	00:10	132kV Kesinga-Muniguda	**Local End**:-Distance, z-1,type-AB, Dist= 1.5 km, Ia= 3109.4 A, Ib= 2705 A, Ic= 474 A **Remote End**:-Distance, z-2,type-AB, Dist= 47.5 km							
			16:38	16:51	00:13	132kV Kesinga-Khariar I/C line power supply failed.	Tripped From GSS KESINGA							

153	Meramundali	20.11.21	00:32	00:42	00:10	132kV Rungta ferro Alloy	O/C Trip,IR=99.92 A,IY=78.24 A,IB=74.29 A,M/T	Rungta ferro	00:10	-	-	0.0029563	-	-
154	Tarkera	20.11.21	11:15	09:11 22.11.21	45:56:00	220 kV Tarkera -Bonai	SPS	-	-	-	-	-	-	-
			11:15	09:19 22.11.21	46:04:00	220 kV Tarkera -Rengali-II								
155	Rengali	20.11.21	12:26	16:18 23.11.21	15:52	220kV Rengali- Kaniha	Tripped	-	-	-	-	-	-	-
156	Mania	21.11.21	06:23	06:37	00:14	132kV ICCL Mania	Tripped	Mania ,OCL Salipur	00:14	-	-	0.0070303	Mania , Salipur	-
			06:24	06:38	00:14	133 kV OCL-Salipur Ckt - I								
157	Rairakhol	22.11.21	13:34	13:49	00:15	132 kV Rairakhol - Boinda Feeder	Tripped at Angul grid end.	Rairakhol Boinda	00:15	-	-	0.0049771	Rairakhol Boinda	-
			13:34	13:40	00:06	132kV Angul-Boinda	Over Current & Earth fault							
158	Podagada	22.11.21	15:58	16:08	00:10	132kV Podagada- Pottangi	Tripped	Pottangi	00:10	-	-	0.0002996	Pottangi	-
159	Narendrapur	22.11.21	18:04	18:17	00:13	220kV Narendrapur- TVL ckt-I,II	Tripped	-	-	-	-	-	-	-
160	Nuapatna	23.11.21	08:15	08:45	00:30	132 kV Nuapatna-Banki Feeder	R and B phase E/F Directional O/C and E/F relay operated	-	-	-	-	-	-	-
161	Bhanjanagar	23.11.21	13:35	16:44 24.11.21	27:09:00	132kV Aska Ckt-1	Tripped [B-ph CT Burst at Aska End]	-	-	-	-	-	-	-
162	Bargarh	23.11.21	13:50	18:35	04:45	132kV Bargarh new feeder	Over Current [Pulled out due to 33kVMain Bus B-Ph disc insulator puncture.]	-	-	-	-	-	-	-
163	Dhenkanal	23.11.21	14:44	15:04	00:20	132KV Dhenkanal-Meramundali Feeder	**Local End**:-Line tripped on VT fuse fail indication.DP relay operated on Zone-1. **Remote End**:- No tripping at any other end.	Dhenkanal Joranda Tr. Nerbharam	00:20	-	-	0.011776	Dhenkanal	-
			14:44	15:05	00:21	132KV Dhenkanal-Khajuriakata-Nuapatna Feeder	**Local End**:-Line tripped on VT fuse fail indication.DP relay operated on Zone-1. **Remote End**:- No tripping at any other end.							
			14:44	15:04	00:20	132kV Dhenkanal-Meramundali	VT Fuse Failure							
164	Podagada	23.11.21	16:08	15:49 25.11.21	47:40	132kV Podagada- Pottangi	Tripped	-	-	-	-	-	-	-
165	Bolangir New	23.11.21	17:30	17:41	00:11	132 kV Bolangir New-Bolangir Old Ckt-I	Tripped on directional O/C and E/F at this end only. Back up relay indication at this end:- 1) Dir O/C PU ON , 2) Dir L1 PU ON,3) IP Dir PU ON,4) Dir E Picked up ON ,5) IL1=0.99KA, IL2=0.18KA, IL3=0.18KA [Bird Fault at 33KV Main bus of 132/33KV GSS Bolangir Old.]	Bolangir Old, Khariar, Saintala, Tushra, ACME Kantabanji Kantabanji Tr.	00:11	-	-	0.0148224	Bolangir Old, Khariar, Saintala, Tushra, Kantabanji	-
166	Saintala	23.11.21	17:31	17:42	00:11	132 kV Tushra-Saintala feeder	**Local End**:- No indication **Remote End**:- Earth fault at Old Bolangir GSS	-	-	-	-	-	-	-
167	Tarkera	23.11.21	18:11	19:50 26.11.21	73:39:00	220 kV Tarkera -Bonai	Master Trip Operated [SPS, Jumper damaged on 24.11.2021, 10:48 Hr at Loc No. 639 & 640]	-	-	-	-	-	-	-

168	Tarkera	24.11.21	10:48	17:45	06:57	220 kV Tarkera -Rengali-II	**Local End:- DP:** R-phase Pickup ,Z1 Trip,Dist-1.3961 Km, %Dist-1%, LOOP= L1-N ,IL1-15.628 KA,IN-16.351KA, Master Trip Operated **Remote End**:- Backup Relay: IA-1276.3A,IN-1059.32 A,IG-1331.27A [Jumper partially damaged at Loc no 639 and 640]	-	-	-	-	-	-	-
169	Jayanagar	24.11.21	12:30	15:56	03:26	220kV Jayanagar-Laxmipur ckt-II	Tripped	-	-	-	-	-	-	-
170	Narendrapur	24.11.21	12:55	13:01	00:06	220kV Narendrapur- TVL ckt-I	Tripped	-	-	-	-	-	-	-
171	Nuapada	24.11.21	14:24	14:28	00:04	132 kV Padampur Nuapada line	Local Breaker Backup Operated at Padampur	Nuapada Kantabannji Kantabannji Tr.	00:05	-	-	0.0017335	Nuapada Kantabanji	-
			14:34	14:35	00:01									
172	Chhend	24.11.21	19:58	20:00	00:02	132 KV Nuagaon traction	Triped on O/C, R-phase, IL1-0.17 KA,IL2-0.16KA,IL3-0.00KA, Trip Relay 86B & O/C Relay	Nuagaon tr	00:02	-	-	5.808E-05	-	-
173	Bhawanipatna	25.11.21	12:40	12:54	00:14	132kV Lanjigarh Road RTSS	Over Current	Lanjigarh Road RTSS	00:14	-	-	0.000865	-	-
174	Narendrapur	25.11.21	13:01	13:40	00:39	220kV Narendrapur- TVL ckt-I	Tripped	-	-	-	-	-	-	-
175	Bhawanipatna	25.11.21	15:00	15:05	00:05	132kV Kesinga I/C	132kV Power supply fail	Bhawanipatna Lanjigarh RTSS	00:05	-	-	0.0011864	Bhawanipatna	-
176	Ganjam	26.11.21	04:00	04:56	00:56	132kV Ganjam-GIL Feeder	Tripped on Dir.Over Current and Master Relay.	GRASIM	00:56	-	-	0.0189368	-	-
177	Palaspanga	26.11.21	14:38	14:40	00:02	132 kV RTSS - Karanjia Feeder	O/C (R-PH), Ia=237.1A, Ib=178.6A, Ic=70.73 A,Inm = 6.924A, Ind= 5.88A	Karanjia RTSS	00:02	-	-	0.0002041	-	-
178	Kesinga	27.11.21	17:21	17:25	00:04	132kV Kesinga-Bolangir	Earth fault	Khariar, Saintala, Tushra, ACME Kantabanji Kantabanji Tr.	00:19	-	-	0.0164943	Khariar, Saintala, Tushra, Kantabanji	-
			17:21	17:27	00:06	132 kV Tushra-Saintala feeder	**Local End**:- No indication **Remote End**:- E/F at Old Bolangir GSS							
			17:21	17:40	00:19	132 kV Kesinga-Saintala feeder	**Local End**:- Earth fault **Remote End**:- Over current at Saintala GSS							
179	Tarkera	27.11.21	17:47	22:07	04:20	220 kV Tarkera -Bonai	SPS	-	-	-	-	-	-	-
180	BC Mohanty	27.11.21	19:45	20:03	00:18	132kV BC Mohanty Sw. station- BC Mohanty fdr	Tripped	-	-	-	-	-	-	-
181	Khurda	28.11.21	14:26	14:32	00:06	132KV Khurda-KTSS	Tripped	-	-	-	-	-	-	-
182	Palaspanga	29.11.21	05:34	05:36	00:02	132 kV RTSS - Karanjia Feeder	O/C (R- PH), Ia=293.3A, Ib=165.1A, Ic=94.77A ,Inm = 7.013A, Ind= 7.015A	Karanjia Tr.	00:02	-	-	0.0002041	-	-
183	Balasore	29.11.21	10:09	17:40	07:31	160MVA Auto-2	220KV Side: Gr A/B trip, Diff R-Ph, Y-Ph, B-Ph, Diff Trip. Diff L1= 8.79I/In0, Res L1= 8.32I/In0, Diff L2= 4.39I/In0, Res L2= 4.25I/In0, Diff L3= 4.39I/In0, Res L3= 4.19I /In0 132KV Side: O/C -R Ph, E/F, IL1-9.36KA, IL2-0.02KA, IL3-0.28KA [132kV R-Ph LA of Auto-2 punctured.]	-	-	-	-	-	-	-
184	Meramundali	29.11.21	10:21	22:00 30.11.21	35:39	100 MVA Auto-II	**220kV Side**:-BucholtzTrip, M/T **132kV Side**:-M/T	-	-	-	-	-	-	-
185	Narendrapur	29.11.21	16:18	16:38	00:20	220kV Narendrapur- Atri ckt-II	Tripped [B-ph conductor snapped at 19km from Narendrapur at LOC no-66]	-	-	-	-	-	-	-
			16:38	14:00 01.12.21	45:22									

186	Duburi(o)	30.11.21	01:45	02:19	00:34	132kV Duburi(O)- Goinda-TTPS feeder	**Duburi End**:-DP operated. Bph-Earth fault, zone-1,Dist-6.8km,If=1.6kA **TTPS End**:- DP operated. zone-1,Dist-6.8km,If=1.75kA	-	-	-	-	-	-	-
187	Tarkera	30.11.21	10:12	10:37	00:25	220 kV Tarkera-Budhipadar Ckt-I	DP: Zone-2, Dist= -1.00 Km, % -100000%, Loop-L1-L2, Il2= 1415.04 A, Master Trip Operated	AAL Bhusan Kalunga	00:30 00:47 00:15	-	-	0.0528353	Kalunga	-
			10:12	10:36	00:24	220 kV Tarkera-Budhipadar Ckt-II	DP: Zone-2, Dist= -108.6 Km, % -98.9 %, Loop-L2-E, Il1=1.81 KA, Il2=1.88KA, IL3=0.42KA, Master Trip Operated							
			10:13	10:25	00:12	132kV Kalunga- Tarkera	**Local End**:- No indication, **Remote End**:- did not trip	-	-	-	-	-	-	-
			10:13	10:23	00:10	132kV Lapanga- Burla ckt-I,II	Tripped	-	-	-	-	-	-	-
188	Tarkera	30.11.21	10:40	14:07 01.12.21	27:27	220 kV Tarkera -Bonai	Master Trip Operated	-	-	-	-	-	-	-
189	Salipur	30.11.21	19:37	19:39	00:02	132kV ICCL Mania	Tripped	Mania ,OCL & Salipur	00:01	-	-	0.0005022	Mania ,Salipur	-
			19:38	19:39	00:01	132 kV OCL-Salipur Ckt-I & 132 kV ICCL-Salipur Ckt- II								
190	Meramundali	30.11.21	22:33	23:12	00:39	400kV Balangir	**Local End**:-Main-I:-B-E,IB=2.48 KA,Dist=213.3 KM,Z2 ,Main-II:-B-E,IB=2.48 KA,Dist=213.3 KM,Z2 ,A/R Unsuccessful **Remote End**:-Main-I:-B-E,IB=2.43 KA,Dist=36.7 KM,Z1, Main-II:-B-E,IB=2.87 KA,Dist=36 KM,Z1 , A/R successful	-	-	-	-	-	-	-
192	Joda	01.12.21	02:08	02:43	00:35	220 kV Joda-TTPS Ckt-I fdr.	Tripped at both end . **AT JODA end** : **DP main-1 relay**: ABC Tripped, SOTF tripped, Zone-I, Dist=109.3km, Fault current IL1=1.499KA, IL2=49.78A, IL3=78.75A **DP main-2 relay**:FL=AGT, Zone-I, Dist=113.46km, Fault current A=1204A, B=58A, C=74A, N=1144A, G=1144A **AT TTPS end**: DP relay: Zone-1, Dist=14.06KM, Fault current IL1=8.775KA, IL2=70.75A, IL3=59.77A.	Joda	-	-	-	-	Joda	-
194	Chhend	01.12.21	09:46	09:48	00:02	132KV Nuagaon traction feeder	Tripped on O/C, (R-phase) IL1-0.17 KA,IL2-0.16 KA,IL3-0.00 KA,.	Nuagaon tr	00:02	-	-	0.00006	-	-
196	Meramundali	01.12.21	10:55	14:13	03:18	400 kV Lapanga ckt-II	**Local End**:- R-E, 2.45 kA, 188.6 km **Remote End**:- R-E , 5.263 km, 20 kA	-	-	-	-	-	-	-
198	Muniguda	01.12.21	16:06	16:07	00:01	132 kV RTSS Bissam Cuttack	Over Current Ia= 212.8 A, Ib= 210.2 A	RTSS Bissam	00:01	-	-	0.00010	-	-
200	Theruvali	01.12.21	18:29	18:46	00:17	220kV Theruvali- Indravati ckt-III	R-ph to Earth fault, zone-1, Dist-54km, If=3kA	-	-	-	-	-	-	-
202	Tarkera	02.12.21	05:59	12:48	06:49	100 MVA A/T-III	Master Trip Operated,Buchholz Trip	-	-	-	-	-	-	-
204	Chhend	02.12.21	09:56	09:58	00:02	132KV Nuagaon traction feeder	Tripped on O/C, (R-phase) IL1-0.17 KA,IL2-0.16 KA,IL3-0.00 KA	Nuagaon tr	00:02	-	-	0.00006	-	-
206	Duburi New	02.12.21	10:11	16:37	06:26	315MVA 400/220KV ICT-1	Arresting oil leakage from tank	-	-	-	-	-	-	-
208	Laxmipur	02.12.21	12:57	13:08	00:11	220 kV Laxmipur- RTSS	tripped in O/C stage-2	Laxmipur- RTSS	00:11	-	-	0.00127	-	-
210	Chatrapur	02.12.21	19:10	19:32	00:22	132 kV Chatrapur-IRE ckt-I	O/C	IRE	00:22	-	-	0.00276		-

212	Baripada GSS	03.12.21	02:13	03:03	00:50	132 kV Baripada-PGCIL Breaker	132 Kv Relay Details : Master Trip, Back Up Relay Indication: O/C L1,O/C L2,O/C L3,IL1=0.97 KA, IL2=1.81KA,IL3=1.49KA	Baripada Grid	00:46	-	-	0.01005	Baripada Grid	-
214	Bhanjanagar	03.12.21	03:00	13:32 04.12.21	34:32	220 kV Therubali Ckt-2	BCN, Z-1, Dist=96.8km	-	-	-	-	-	-	-
216	Jaleswar	03.12.21	03:47	04:02	00:15	132kV Jaleswar- Bhograi	Y-ph to Neutral, If=2kA, Dist-21.5km	-	-	-	-	-	-	-
218	Joda	03.12.21	10:58	12:21	01:23	220kV Joda- Ramchandrapur fdr	**Local End:**- Carrier receive **Remote End**:-E/F	-	-	-	-	-	-	-
220	Aska New	04.12.21	03:42	14:15	11:38	132 kV Aska New-Aska Ckt-1	At Aska-Tripped on E/F on B-Ph & L/C [B-Ph Jumper snapping at loc no 23]	-	-	-	-	-	-	-
221	Tarkera	04.12.21	06:20	06:59	00:39	220 KV Bus-Coupler	Backup Relay-IA-81.52 A,IB-207.6 A,IC-46.24 A,IN(Measure)-143.8A,IN(Derived)-143.8A, MT	-	-	-	-	-	-	-
			06:20	08:54	02:34	220 KV TKR-RSP Ckt-III	Dp-51(n)-B Phase,IA-0.04 KA,IB-0.07 KA,IC-0.01 KA,MT-86(1) & 86(2).							
			06:21	12:11	05:50	220 KV Tarkera-Bonai	MT-SPS							
222	Barbil	04.12.21	06:35	07:02	00:27	132 kV Barbil-Bolani feeder	Tripped on E/F at both Barbil & Bolani end. Relay indications at Barbil end:- Back up relay- E/F ; Ia=71.25A, Ib=115.8A, Ic=990.2A, In=873.5A.	Balani Nalda Aryasteel	00:27	-	-	0.00912	-	-
223	Tarkera	04.12.21	07:00	11:35	04:35	220 KV TKR-PGCIL Ckt-I	**Local End:**- Did not tripped **Remote End**:- Direction Earth Fault Relay IA-383 A, IB-6.02A, IC-363 A [Yphase Drop jumper snapped at 220 KV Tarkera-Pgcil ckt-I]	-	-	-	-	-	-	-
224	Duburi New	04.12.21	13:40	07.12.21 16:49:00	75:09:00	220 kV New Duburi-Maithan	**Local End**:- MAIN-1 :- DP Operated, SOTF Trip, K86.1 & K86.2 Operated. MAIN-1 DP:- R-PH Trip, Y-PH pick up, B-PH pick up, general trip, A/R block, IL1=15.67 kA, DIST.=3.2 km MAIN-2 DP:- SOTF O/C pick up L1 ON, SOTF O/C trip L123 ON, Definite Trip ON **Remote End**:- Line isolator were opened for first time charging [R-ph LA burst during first time charging at Maithan end.]	-	-	-	-	-	-	-
225	Bargarh	04.12.21	21:20	21:59	00:39	132 kV ACC-II feeder	O/C	-	-	-	-	-	-	-
226	Chatrapur	05.12.21	05:07	05:42	00:35	132 kV Chatrapur-Ganjam ckt	At Chatrapur-Tripped on (O/C Rph Y-Ph G) Z-1.Dist-8.24km. At Ganjam-Distance relay and Master Relay. [Weather Condition-Heavy Rain and Lightening]	Ganjam, Grasim Rambha Tr	00:35 00:21	-	-	0.0150053	Ganjam	-
			05:08	05:29	00:21	132 kV Chatrapur-Rambha Traction Ckt	Tripped on(R-G) IR=3557A,IY=6A,IG=3536A Z-1.Dist-5.12km.							

227	Mania	05.12.21	05:11	05:14	00:03	132 KV ICCL Mania Incomer	R ph TO Y ph fault	-	-	-	-	-	-	-
228	Balugaon	05.12.21	13:26	18:22	04:56	132 kV Chhatrapur-Balugaon feeder	**Chhatrapur end**:- DP operated. Dist-44.04km, Zone-I, IR-1.279KA,IY-96.20A, IB-194A & M/T relay optd	Balugaon Khalikote Solari Tr.	00:11	-	-	0.00510	Balugaon Khalikote	-
			13:26	13:37	00:11	132 KV Balugaon-SOLARI TR. Feeder	**At Balugaon end**:-no tripping,Weather-cloudy and rainy & P/S was availed from Chandpur Grid at 13:37Hrs.							
229	Balugaon	05.12.21	22:34	22:50	00:16	132 kV Chhatrapur-Balugaon feeder	**Chhatrapur End:**- Yph-G fault, Dist-56.23km, Zone-2 in DP. IR-246A,IY-1.395KA,IB-139.1A & M/T relay optd.	Balugaon Khalikote Solari Tr.	00:16	-	-	0.00742	Balugaon Khalikote	-
			22:34	22:50	00:16	132 KV Balugaon-SOLARI TR. Feeder	**Balugaon End**:-zone-1,location=1.88km,Yph-G fault.IR-260A,IY-206A,IB-159A,IG-618A),							
230	Bhograi	06.12.21	02:38	03:23	00:45	132kV Bhograi- Baripada PG	Y-ph to Earth fault, zone-1, If=1.79kA, Dist-9.8km	-	-	-	-	-	-	-
231	Paradeep	06.12.21	06:59	10:13	03:14	132kV Paradeep- IFFCO ckt-I	O/C R-ph	-	-	-	-	-	-	-
			06:59	13:08	06:09	160 MVA Auto-I	Master trip							
232	Chandaka	06.12.21	16:58	17:21	00:23	132kV Chandaka- BPPL fdr		-	-	-	-	-	-	-
233	Muniguda	06.12.21	15:48	15:49	00:01	132 kV RTSS Bissam Cuttack	Over Current Ia= 216.2 A, Ib= 213.8 A	RTSS Bissam	00:02	-	-	0.00021	-	-
			20:02	20:03	00:01		Over Current Ia= 217 A, Ib= 214.6 A							
234	Paradeep	07.12.21	03:39	11:06	07:27	160 MVA Auto-I	Master trip, Directional B-ph to E/F	-	-	-	-	-	-	-
			03:39	11:04	07:25	132kV Paradeep- IFFCO ckt-II								
235	Cuttack	07.12.21	06:40	06:53	00:13	132 kV Cuttack-Phulnakhara	o/c in Y-ph & E/F	-	-	-	-	-	-	-
236	Tarkera	07.12.21	07:32	22:05	14:33	221 KV Tarkera-Bonai	MT	-	-	-	-	-	-	-
237	Theruvali	07.12.21	10:00	10:23	00:23	132kV Theruvali- Kesinga fdr	Red hot in Y-ph isolator	Bhawanipatna Junagarh Lanjigarh Tr. POWMEX	00:23	-	-	0.01004	Bhawanipatna Junagarh	-
238	Karanjia	07.12.21	10:08	15:19	05:11	132kV Karanjia- Rairangpur	R-ph LA burst	Dhenkikote	05:11	-	-	0.01857	Dhenkikote	-
239	Aska New	07.12.21	13:12	13:52	00:40	132 kV Aska New -Chatarapur	Master trip	-	-	-	-	-	-	-
240	Phulnakhara	07.12.21	17:41	19:42	02:01	132 kV Mancheswar-Phulnakhara feeder	**Local End:**-Tripped by DP relay on B-G fault, location-28.23Km, zone-2, Ir-61A, Iy-214A, Ib-1262A, In-1458A **Remote End**:- did not trip.At mancheswar grid end respective feeder did not tripped.	-	-	-	-	-	-	-
						132KV Chandaka-mancheswar	tripped on O/C B-Ph to E/F	-	-	-	-	-	-	-
241	Chipilima	07.12.21	21:35	12:30 08.12.21	14:55	132kV Chipilima- Katapali ckt-II	Y-ph CT puncture	-	-	-	-	-	-	-
			21:35	23:05	01:30	132kV Chipilima- Katapali ckt-I								
			21:35	23:37	02:02	132kV Chipilima- Burla								
242	Muniguda	07.12.21	01:30	01:31	00:01	132 kV RTSS Bissam Cuttack	Over Current Ia= 213.6 A, Ib= 211 A	RTSS Bissam	00:01	-	-	0.00010	-	-
243	Salipur	08.12.21	13:03	14:03	01:00	132 kV ICCL-OCL-Salipur Line 132 kV ICCL-Salipur Line	Man fault [A boy found injured inside 132 KV ICCL-OCL-Salipur Ckt- I Bay .]	ICCL, OCL Mania	00:15	-	-	0.00286	-	-
			13:04	13:19	00:15	132 KV ICCL Mania Incomer	R Ph to Ground fault							
244	Kesinga	08.12.21	13:34	13:45	00:11	Vento Solar-1	E/F	-	-	-	-	-	-	-
245	Akhusingh	08.12.21	17:47	18:00	00:13	Akhusingh -Rayagada line		-	-	-	-	-	-	-
246	Tarkera	08.12.21	18:35	22:51	04:16	222 KV Tarkera-Bonai	MT	-	-	-	-	-	-	-

247	Bidanasi	08.12.21	19:38	20:50	01:12	132 kV BPPL Feeder	**Local End:**- DP Realy operated, Zone 1, dist- 9.142 km, fault current IA=6.832 kA **Remote End:**- Zone 1, Dist- 8.6 km, Ir=4.1 Ka	-	-	-	-	-	-	-
248	Theruvali	08.12.21	14:20	18:13	03:53	220/132 kV Auto -2	C-N,Zone-2, 59.11km, Ia=73.65A,Ib=73.74A,Ic=1.668KA	-	-	-	-	-	-	-
249	Theruvali	09.12.21	13:13	15:33	02:20	220/132 kV Auto -2	Buchholz relay,Master trip relay operated.	-	-	-	-	-	-	-
250	Mania	09.12.21	20:29	20:34	00:05	132 KV ICCL Mania Incomer	59 Trip	Mania, OCL, Salipur	00:05	-	-	0.00280	Salipur	-
251	Mania	10.12.21	02:08	02:22	00:14	132 KV ICCL Mania Incomer	59 Trip	Mania, OCL, Salipur	00:14	-	-	0.00784	Salipur	-
252	Barapalli	10.12.21	04:08	04:15	00:07	132 kV Bolangir New- Barapalli		-	-	-	-	-	-	-
253	Chatrapur	10.12.21	07:38	11:53	04:15	132 kV Chatrapur-Narendrapur Ckt-II	**Chatrapur End**:- Jumper snapped at loc no-I **Narendrapur End**:- DP,Zone-1, R-N, Dist-10.31km, If=398A	-	-	-	-	-	-	-
254	Muniguda	10.12.21	08:14	08:15	00:01	132 kV RTSS Bissam Cuttack	Over Current Ia= 212.4 A, Ib= 210.2 A	RTSS Bissam	00:01	-	-	0.00010	-	-
255	Dhenkanal	10.12.21	09:04	09:06	00:02	132 kV Dhenkanal-Khuntuni line	Power supply failure	Dhenkanal Joranda Tr.	00:02	-	-	0.00023	Dhenkanal	-
			09:04	09:06	00:02	132 kV Dhenkanal-Khajuriakata-Nuapatana T- line								
			09:04	09:06	00:02	132 kV Dhenkanal-Joranda Tr.								
			09:10	09:12	00:02	132 kV Khajuriakata-Dhenkanal-Nuapatana Fdr								
256	Tarkera	10.12.21	09:23	11:52	02:29	132 KV Tarkera-Rajgangpur Ckt-II	PT fuse fail	-	-	-	-	-	-	-
257	Pattamundai	10.12.21	21:17	21:42	00:25	132 kV Pattamundai-Rajnagar Ckt-I	Tripped on Distance Protection (B Ph) Zone-I with 7.5 km distance , IL1=0.05 kA, IL2=0.05 kA, IL3=1.6 kA. [heavy thunderstorm and lightning]	-	-	-	-	-	-	-
258	Bargarh New	11.12.21	04:02	04:50	00:48	220 KV Bargarh New- New bolangir	E/F at Bargarh New end	-	-	-	-	-	-	-
259	kesinga	11.12.21	04:06	05:35	01:29	132kV Sonepur-Boudh	feeder tripped Sonepur end	Tusura , ACME Saintala,khariar Kantabanji Kantabanji Tr.	00:26	-	-	0.02132	Tusura Saintala, khariar Kantabanji	-
			04:07	04:33	00:26	132 kV kesinga-Khariar Feeder	Tripped From Sadeipalli							
260	Tusura	11.12.21	04:40	05:00	00:20	132kV Bolangir old	Incoming supply fail(GSS,Bolangir Old)	Tusura , ACME Saintala,khariar Kantabanji Kantabanji Tr.	00:59	-	-	0.04838	Tusura Saintala, khariar Kantabanji	-
			05:01	05:40	00:39									
261	Khariar	11.12.21	06:26	06:28	00:02	132 kV kesinga-Khariar Feeder	Tripped From GSS Kesinga	khariar Kantabanji Kantabanji Tr.	00:02	-	-	0.00112	khariar Kantabanji	-
262	Tarkera	11.12.21	06:35	13.12.21 14:13:00	55:38	222 KV Tarkera-Bonai	MT operated on SPS	-	-	-	-	-	-	-
263	Palaspanga	11.12.21	14:10	14:13	00:03	132 kV RTSS-Karanjia Feeder	Back up relay- O/C (R PH), Ia=240.5A, Ib=149.6A, Ic=109.1A,Inm = 7.21A, Ind= 6.29A	Karanjia Tr.	00:03	-	-	0.00112	-	-
264	Paradeep	12.12.21	04:08	11:05	06:57	132kV Paradeep- IFFCO ckt-II	O/C	-	-	-	-	-	-	-
			04:08	16:07	11:59	160 MVA Auto-I	O/C B-ph							
265	Paradeep	12.12.21	05:18	05:29	00:11	132kV Paradeep- Kendrapara	C-N fault	-	-	-	-	-	-	-
266	Paradeep	12.12.21	05:39	11:04	05:25	132kV Paradeep- IFFCO ckt-I	R-ph O/C, IL1=4.62kA	-	-	-	-	-	-	-

267	Duburi New	12.12.21	19:07	13.12.21 17:06:00	21:59	220 KV New Duburi-JINDAL Ckt -1	**Local End:-** Main1&2 DP operated,GrA/B Trip, Main 1:-PU TME -48ms,Trip Time-1 ms , General Trip, Rph Trip , Earth Fault , Fault MAIN-2:- PU TME -46ms,Trip Time-1 ms , General Trip, Rph Trip , Earth Fault , Fault **Remote End**:- Rph trip,Zone -1 ,Dist-1.312Km, FAULT CURRENT-IL1=6.136KA, IL2=399A, IL3=470.4A [Fault was found at LOC 7&8 EARTH WIRE Snapped]	-	-	-	-	-	-	-
268	Sambalpur	12.10.21	19:52	20:17	00:25	132 kV BurlaPH-Sambalpur Feeder	Tripped at Burla PH end on Zone-1, B-phase	-	-	-	-	-	-	-
269	Palaspanga	13.12.21	18:46	18:48	00:02	132 kV RTSS-Karanjia Feeder	Back up relay- O/C (R PH), Ia=240.3A, Ib=195.4A, Ic=52.8A,Inm = 6.71A, Ind= 5.27A	Karanjia Tr.	00:02	-	-	0.00019	-	-
270	Tarkera	14.12.21	04:15	12:11	07:56	100 MVA A/T-I	Buchholz Trip,Tc1&Tc2 faulty	-	-	-	-	-	-	-
271	Narendrapur	14.12.21	15:46	15:53	00:07	220kV Narendrapur- TATA ckt-II	B-ph O/C	-	-	-	-	-	-	-
272	Paradeep	15.12.21	05:04	07:00	01:56	220 kV Paradeep-ESSAR Ckt-II	O/C,R,Y,B PH IL1-0.11,IL2-0.12,IL3-0.11KA [ESSAR CB problem]	-	-	-	-	-	-	-
273	Bhanjanagar	15.12.21	18:01	18:28	00:27	220kV Bhanjanagar- Aska New	Red hot in R-ph isolator	-	-	-	-	-	-	-
274	Khariar	16.12.21	08:00	16:52	08:52	132 kV kesinga-Khariar Feeder	Tripped from Kesinga.	khariar Kantabanji Kantabanji Tr.	08:52	-	-	0.29807	khariar Kantabanji	-
275	Chandbali	16.12.21	09:01	09:13	00:12	132KV Olaver Ckt. I & II	132Kv Power supply failed from source	Chandbali Olaver	00:12	-	-	0.00126	Chandbali Olaver	-
			09:01	09:13	00:12	132 kV Pattamundai- Olaver Ckt-I & II	Power failed from pattamundai grid end							
276	Kendrapara	16.12.21	09:06	09:20	00:14	132kV Kendrapara-Salipur SC line	Tripped on LBB with M/R	Kendrapara Pattamundai, Olaver,Chandbali	00:14	-	-	0.00701	Kendrapara Pattamundai, Olaver, Chandbali	-
			09:06	09:17	00:11	132kV Kendrapara-Pattamundai SC line								
			09:06	09:18	00:12	132kV Kendrapara- Marshaghai Ckt-I								
			09:06	09:20	00:14	132kV Kendrapara-Chandikhole Ckt-I								
277	Boudh	16.12.21	12:31	12:35	00:04	132kV Sonepur	feeder tripped Sonepur end	-	-	-	-	-	-	-
278	Balugaon	16.12.21	13:35	20:33	06:58	132 kV New Aska-Chatrapur line	At Chhatrapur- Tripped due to snapping of R-ph Jumper at loc.-20	SOLARI TR. Chandpur Chhatrapur IRE, Rambha Tr.,Ganjam, Grasim,	00:13	-	-	0.01303	Chandpur Chhatrapur Ganjam	-
			13:35	13:48	00:12	132 kV Chatrapur-Ganjam ckt								
			13:35	13:48	00:13	132 kV Chhatrapur-Balugaon feeder								
			13:35	13:48	00:13	132 KV Balugaon-SOLARI TR. Feeder								
			13:35	13:48	00:13	132 kV Balugaon- Chandpur feeder								
279	Theruvali	17.12.21	01:31	06:13	04:42	220/132 kV Auto -3	Master trip relay operated,(99A,99T)Overflux relay operated	-	-	-	-	-	-	-
280	Chatrapur	17.12.21	11:43	11:46	00:03	132 kV Chatrapur-Rambha Traction Ckt	Tripped on O/C(Rph,Yph) IR=0.26KA, IY=0.25A	Rambha Tr	00:03	-	-	0.00023	-	-
281	Ganjam	17.12.21	13:36	13:47	00:11	132KV Chatrapur- Ganjam	Power supply failed from Chatrapur Grid S/S.	Ganjam, Grasim	00:11	-	-	0.0042035	Ganjam	-
282	Barbil	17.12.21	16:47	21:05	04:18	132 kV Barbil-Nalda feeder	B-ph CT jumper snapped at Nalda RTSS	-	-	-	-	-	-	-
283	Palaspanga	18.12.21	12:06	12:09	00:03	132 kV Joda Feeder	Back up relay- O/C (CA T), Ia=410.7A, Ib=293.3A, Ic=327.9A,In = 0, Ig= 1.44A, Vg - 26V	Palaspnaga, Karanjia, Dhenkikote	00:03	-	-	0.0030698	Palaspnaga, Karanjia, Dhenkikote	-
284	Tarkera	18.12.21	16:50	18:56	02:06	222 KV Tarkera-Bonai	MT	-	-	-	-	-	-	-

285	Bidanasi	19.12.21	00:12	01:34	01:22	133 kV BPPL Feeder	Over current earth fault ,master trip realy. Over current in R and Y phase and Earth fault,Distance 19.5 km	-	-	-	-	-	-	-
286	Theruvali	19.12.21	13:48	17:38	03:50	220/132 kV Auto -3	Master trip relay operated,(99A,99T)Overflux relay operated	-	-	-	-	-	-	-
287	Chikiti	19.12.21	14:05	14:07	00:02	132 kV Digapahandi Ckt 1	p/s fail	Chikiti	00:03	-	-	0.000232	Chikiti	-
			15:42	15:43	00:01									
			14:05	14:07	00:02	132 kV Digapahandi Ckt 2								
			15:42	15:43	00:01									
288	Puri	19.12.21	16:42	20.12.21 15:14:00	22:32	132kV Puri- Nimapara	R- ph O/C	-	-	-	-	-	-	-
289	Theruvali	19.12.21	23:56	20.12.21 17:49:00	17:53	220/132 kV Auto -3	Master trip relay operated,(99A,99T)Overflux relay operated	-	-	-	-	-	-	-
290	Tarkera	20.12.21	02:59	12:29	09:30	100 MVA A/T-I	Buchholz Trip,Tc1&Tc2 faulty	-	-	-	-	-	-	-
291	Tarkera	20.12.21	06:48	21:22 21.12.21	36:34	222 KV Tarkera-Bonai	MT-on SPS	-	-	-	-	-	-	-
292	Shamuka	21.12.21	05:03	05:03	00:00	132 kV Atri- Shamuka	**Local End**:- Breaker Tripped and Autoreclose suceesful. Fault type- Yphase-G ,Distance- 2.5 Km Zone-Z1 , Ia= 501.604A, Ib=401.396A, Ic= 331.252A **Remote End**:- Breaker Tripped and Autoreclose suceesful. Fault type- Yphase-G ,Distance- nil Zone- Na , Ia= 158A, Ib=132.3A Ic= 207.1A	-	-	-	-	-	-	-
293	Tarkera	21.12.21	05:09	12:48	07:39	100 MVA Auto-II	Buchholz relay tripping	-	-	-	-	-	-	-
294	Balosore	21.12.21	05:55	07:03	01:08	132kV Balasore-Basta feeder	Y-ph O/C	-	-	-	-	-	-	-
295	Bonai	21.12.21	08:12	08:49	00:37	220 kV Bonai -Barkote	Barkote-Deogarh line faulty	-	-	-	-	-	-	-
			08:12	08:49	00:37	220 kV Bonai -Tarkera	SPS							
296	Jayanagar	21.12.21	14:42	19:15	04:33	220kV Jayanagar-Laxmipur ckt-II	Y-ph E/F, Dist-3.5km, If=10.7kA	-	-	-	-	-	-	-
297	Khajuriakata	21.12.21	15:38	16:56	01:18	132 kV Khajuriakata-Meramunduli Fdr	**Local End**:- R-G Fault, If= 2.23KA, Zone-I, Dist-1.0Kms **Remote End**:- R-G Fault, If= 2.76KA, Zone-I, Dist-39.06km, B/U:- 3.04 kA	-	-	-	-	-	-	-
298	Muniguda	21.12.21	19:07	19:08	00:01	132 kV RTSS Bissam Cuttack	Over Current Ia= 212.2 A, Ib= 209.6 A	RTSS Bissam	00:01	-	-	0.00010	RTSS Bissam	-
299	Tarkera	21.12.21	19:37	19:51	00:14	132 kV Rajgangpur-Budhipadar feeder	No Tripping, Over Current, (Ia-680A, Ib-610A,Ic-550A)	RSP Chhend Nuagaon tr RTSS Bissam Adhunik Shree Ganesh	01:15			0.2213291	Rajgangpur	
			19:37	20:19	00:42	132 kV Rajgangpur-Tarkera Feeder-I	**Local End:**- No Tripping **Remote End:**- Master trip relay operated							
			19:37	21:09	01:32	132 kV Rajgangpur-Tarkera Feeder-II	**Local End:**- No Tripping **Remote End:**- Master trip relay operated	Rajgangpur Rajgangpur Tr. OCL IOCL	00:13					
			19:38	20:58	01:20	220 KV Tarkera-PGCIL CKT-I	Bus-bar protection operated Zone-I,L2 and Zone-II,L2&L3							
			19:38	20:40	01:02	220 KV Tarkera-Budhipadar CKT-I								
			19:38	20:43	01:05	220 KV Tarkera-Budhipadar CKT-II								
			19:38	21:00	01:22	220 KV Tarkera-RSP CKT-I								
			19:38	20:46	01:08	220 KV Tarkera-RSP CKT-II								
			19:38	20:59	01:21	220 KV B/C								
			19:38	21:09	01:31	220 KV Tarkera-RSP CKT-III								

			19:38	21:09	01:31	220 KV Tarkera-RSP CKT-IV				-	-			-
			19:38	21:22	01:44	220 KV Tarkera-Rengali-II								
			19:38	20:41	01:03	100 MVA A/T-I								
			19:38	20:49	01:11	100 MVA A/T-II								
			19:38	21:01	01:23	100 MVA A/T-III								
			19:38	21:03	01:25	100 MVA A/T-IV								
			19:38	20:19	00:41	132 KV Tarkera-Rajgangpur Ckt-I								
			19:38	20:20	00:42	132 KV Tarkera-Rourkela Ckt-I								
			19:38	20:51	01:13	132 KV Tarkera-Chhend-I								
			19:38	21:02	01:24	132 KV Tarkera-Chhend-II								
			19:38	20:53	01:15	132 KV Tarkera-Rourkela-II								
			19:38	21:06	01:28	132 KV Tarkera-Rourkela-III								
			19:38	21:05	01:27	132 KV Tarkera-Rajgangpur Ckt-II								
			19:39	20:55	01:16	132 kV Switching Station (LILO) O/G Feeder	Incoming power supply failure from Tarkera Grid Substation							
			19:39	20:54	01:15	132KV Nuagaon traction feeder								
300	Muniguda	21.12.21	20:32	20:33	00:01	132 kV RTSS Bissam Cuttack	Over Current Ia= 211 A, Ib= 208.6 A	-	-	-	-	-	-	-
301	Katapali	22.12.21	05:02	11:17 24.12.21	54:15	Auto-II	Buchholz relay tripping	-	-	-	-	-	-	-
302	Tarkera	22.12.21	17:13	8:04 23.12.21	14:51	222 KV Tarkera-Bonai	MT	-	-	-	-	-	-	-
303	Bhograi	23.12.21	13:42	14:10	00:28	132 kV Kuchei-Bhograi feeder	Trip on DP Relay,Zone-1, Dist-40km, R-PH-ground, IR-984.7A	-	-	-	-	-	-	-
304	Chhend	23.12.21	21:05	21:07	00:02	132KV Nuagaon traction feeder	Tripped on O/C, (R-phase) IL1-0.16 KA,IL2-0.16 KA,IL3-0.00 KA	Nuagaon tr	00:02	-	-	5.945E-05	-	-
305	Theruvali	23.12.21	23:19	07:11	07:52	220/132 kV Auto -3	Master trip relay operated,(99A,99T)Overflux relay operated	-	-	-	-	-	-	-
306	Chatrapur	24.12.21	02:46	02:49	00:03	132 kV Chatrapur-Rambha Traction Ckt	Tripped on O/C(Rph,Yph) IR=0.65KA, IY=0.65kA	Rambha Tr	00:03	-	-	0.0002329	-	-
307	JSPL	24.12.21	05:52	07:02	01:10	220kV JSPL- Jamshedpur fdr	DP operated, Zone-1, Dist-56.35km, If=1.35kA	-	-	-	-	-	-	-
308	Agarpada	24.12.21	11:02	16:05	05:03	132 kV Agarpada-Anandapur Line.	**Local End**:- Tripped on DP Relay ,Zone-1, Distance-0.6 km, Fault current: Ia-0.17 KA, Ib-2.93 KA, Ic-0.18 KA, GR-A/B Trip Relay oprtd. **Remote End**:- Tripped on DP Relay ,Zone-2, Distance-46.65 km, Fault current: Ia-144.8 A, Ib-1.602 KA, Ic-160.7 A [132 KV Y-Phase LA of 132 KV Agarpada-Anandapur Line Punctured]	-	-	-	-	-	-	-
309	Meramundali	24.12.21	11:11	11:38	00:27	400kV Meramundali- Bolangir PG	**Meramundali End**:- B-ph to E/F, Dist-200.9km, If=2.73kA	-	-	-	-	-	-	-
310	Digapahandi	24.12.21	13:01	16:28	03:27	132kV Digapahandi- Berhampur	**Berhampur End**:- Y-ph to E/F, Dist-18.5km, If=2.312kA	-	-	-	-	-	-	-
311	Chandikhole	24.12.21	14:05	14:55	00:50	132kV Chandikhole- Jajpur Road		-	-	-	-	-	-	-
312	Nuapada	24.12.21	14:24	14:28	00:04	132 kV Padampur Nuapada line	LBB operated at Padampur	-	-	-	-	-	-	-
			14:34	14:35	00:01									

313	Balosore	25.12.21	04:47	12:26	07:39	132kV Balasore-Udala feeder	**At Balasore end**: DP relay: A-G-T, Z-I, Dist-18.08Km, Ia-3637A, Ib-122A, Ic-124A. **At Udala end**: Gen Trip, Dist Trip, R-Ph P/U, Z-I, Ia-1.04KA, Ib-0.14KA, Ic-0.13KA, Dist-26.50Km [R-Ph Suspension insulator string snapped at Loc no-81]	-	-	-	-	-	-	-
314	Budhipadar	25.12.21	12:04	12:56	00:52	220kV Budhipadar- Korba ckt-I	Budhipadar End:- B-ph to E/F, Dist-58.4km, If=2.9kA	-	-	-	-	-	-	-
315	Budhipadar	25.12.21	12:04	12:16	00:12	220kV Budhipadar- Lapanga ckt-I	Budhipadar End:- B-ph to E/F, Dist-58.4km, If=2.9kA	-	-	-	-	-	-	-
316	Chhend	25.12.21	18:02	18:04	00:02	132KV Nuagaon traction feeder	Tripped on O/C, (R-phase) IL1-0.16 KA,IL2-0.16 KA,IL3-0.00 KA	Nuagaon tr	00:02	-	-	5.945E-05	-	-
317	Olaver	25.12.21	07:53	08:02	00:09	132 kV Pattamundai- Olaver Ckt-I & II	Power failed from pattamundai grid end	Olaver Chandbali	00:09	-	-	0.0009462	Olaver Chandbali	-
			07:53	08:02	00:09	132KV Chandbali Ckt-I & II	132Kv Power supply failed from source							
318	Salipur	26.12.21	09:45	17:34	07:49	132kV Salipur- ICCL fdr	Tripped	-	-	-	-	-	-	-
319	Lapanga	26.12.21	19:11	19:54	00:43	132 kV Lapanga-Aryan feeder	Tripped due to 132 kV R-ph CT bursted of power TRF-II at Lapanga GSS.	Aryan	00:43	-	-	3.797E-06	-	-
320	Ganjam	27.12.21	01:28	02:28	01:00	132KV GIL	Tripped on u/f ,o/c,M/R	Ganjam, Grasim	01:00	-	-	0.0229283	Ganjam	-
321	Laxmipur	27.12.21	04:18	04:50	00:32	221 kV Laxmipur- RTSS	tripped in O/V stage	Laxmipur- RTSS	00:32	-	-	0.0036995	-	-
322	Kuchinda	27.12.21	06:26	06:32	00:06	132 kV SMC incoming	Tripped on distance protection	-	-	-	-	-	-	-
323	Kendrapara	27.12.21	17:58	18:42	00:44	132KV Olaver Ckt-I & II	132Kv Power supply failed from source	Pattamundai, Olaver, Chandbali	00:44	-	-	0.0123839	Pattamundai, Olaver, Chandbali	-
			17:59	18:16	00:17	132 kV Kendrapara - RAMCO Ckt-II	**Kendrapara End:**- DP relay operated. Dist-31.02km, Zone-1, Z=13.51ohm, Y-PH, Ir=371.73A, Iy=318.415A, Ib=201.748A, IN=851.947A.&Charged at 08:09 hrs but immediately tripped with back up E/F with M/R. Ir-312.732A, Iy-9.344A, Ib-268.494A, IN-303.425A.							
			17:59	18:40	00:41	132kV Kendrapara-Pattamundai SC line	P/S stopped as 132kV Kendrapara-RAMCO ckt-II feeder tripped on DP relay.							
			18:00	18:30	00:30	132 kV Pattamundai- Olaver Ckt-I & II	Power failed from pattamundai grid end							
324	Chandbali	28.12.21	15:48	15:53	00:05	132KV Olaver Ckt-I & II	132Kv Power supply failed from source	Olaver Chandbali	00:05	-	-	0.0005256	Olaver Chandbali	-
			15:48	15:55	00:07	132 kV Pattamundai- Olaver Ckt-I & II	Power failed from pattamundai grid end							
325	Kalunga	28.12.21	21:50	29.12.21 00:00:00	02:10	132 kV Kalunga-Budhipadar Ckt	E/F, Due to thunder and lightning	-	-	-	-	-	-	-
326	Barkote	28.12.21	23:41	18:38 30.12.21	42:57:00	220 kV Barkote- Deogarh feeder	Tripped [B ph LA burst inside Deogarh Grid S/s]	-	-	-	-	-	-	-
			23:41	00:10	00:29	220 kV Bonai -Barkote	Barkote-Deogarh line faulty							
			23:41	00:12	00:31	220 kV Bonai -Tarkera	SPS							

327	Sambalpur	28.12.21	12:58	13:26	00:28	132 kV Katapali-Sambalpur Feeder	Tripped on Zone-1, DP operated, 'Y' & B-phase	-	-	-	-	-	-	-
328	Bolangir old	29.12.21	02:50	02:55	00:05	132 kV Kesinga	Over Voltage	Tusura , ACME Saintala,khariar Kantabanji Kantabanji Tr.	00:15	-	-	0.0122997	Tusura Saintala,khariar Kantabanji	-
			03:08	03:10	00:02									
			03:31	03:32	00:01									
			04:07	04:12	00:05									
			02:51	02:56	00:05	132kV Bolangir old-Tusura	Incoming supply fail(GSS,Bolangir Old)							
			03:06	03:09	00:03									
			03:31	03:33	00:02									
			04:07	04:13	00:06									
			02:52	02:55	00:03	132 kV kesinga-Khariar Feeder	Tripped From GSS laltikira							
			03:07	03:11	00:04									
			03:31	03:32	00:01									
			04:07	04:12	00:05									
329	Duburi New	29.12.21	04:25	04:25	00:00	220 kV New Duburi-Bhadrak	**Local End**:- MAIN-1&2 DP Operated, AR Successful. MAIN-1 DP:-Pick up time=97ms,trip time=35ms, General trip, RPH trip, E/F, Zone-1B trip, AR Close, Distance Pick up L1E, Dist=62.8 km MAIN-2 DP:- Pick up time=91ms,trip time=28ms ,General trip, Rph trip ,E/F, Zone-1B Trip, AR Close, Distance Pick up L1E, Dist=62.7 km, IL1=3.22 kA, d%=95.3% **Remote End**:- Zone-1, R-ph Trip, Trip Ph-A, Fault duration= 71.62ms, Relay trip time=79.95ms, Faukt location= 7.51km, IA=3.91kA, IB=583.2amp, IC=500.6amp, AR on	-	-	-	-	-	-	-
330	Meramundali	29.12.21	10:21	15:45	05:24	220/132 kV 100MVA Auto-II	**220 kV Side**:-BucholtzTrip,M/T **132 kV Side**:-M/T	-	-	-	-	-	-	-
331	Joda	29.12.21	18:36	18:47	00:11	132 kV Joda-Kenduposi Feeder	**Tripped at Kenduposi end** . **Kenduposi End :** B/U relay optd.,O/C tripped, Fault loop : L1-L2, Fault current IL1=0.63KA,IL2=0.54KA. **Joda End**: Not tripped.	-	-	-	-	-	-	-
332	Bolangir old	30.12.21	01:15	01:18	00:03	132 kV Kesinga	Over Voltage	Tusura , ACME Saintala,khariar Kantabanji Kantabanji Tr.	00:22	-	-	0.0180396	Tusura Saintala,khariar Kantabanji	-
			01:19	01:21	00:02									
			01:22	01:28	00:06									
			01:29	01:40	00:11									
			01:14	01:19	00:05	132 kV kesinga-Khariar Feeder	Tripped From GSS laltikira							
			01:20	01:21	00:01									
			01:25	01:28	00:03									
			01:29	01:39	00:10									
			01:14	01:18	00:04	132kV Bolangir old-Tusura	Incoming supply fail(GSS,Bolangir Old)							
			01:20	01:21	00:01									
			01:23	01:27	00:04									
			01:28	01:40	00:12									
333	Paradeep	30.12.21	06:33	09:40	03:07	132kV Paradeep- PPL ckt-II	R-ph O/C	-	-	-	-	-	-	-
334	Palaspanga	30.12.21	14:58	15:01	00:03	132 kV RTSS-Karanjia Feeder	Back up relay- E/F, Ia=1.475KA, Ib=18.5A, Ic=30.93A,Inm = 1.48KA, Ind= 1.48KA	RTSS-Karanjia	00:03	-	-	0.0002857	-	-
335	Chandbali	30.12.21	17:04	17:07	00:03	132KV Olaver Line-1 and Line 2	132Kv Power supply failed from source	Olaver Chandbali	00:03	-	-	0.0003154	Olaver Chandbali	-
			17:04	17:08	00:04	132 kV Pattamundai- Olaver Ckt-I & II	Power failed from pattamundai grid end							
336	Bargarh New	30.12.21	17:21	18:25	01:04	220 KV Bargarh New- Katapali Line	220 kV Busbar protection operated due							

			17:21	18:04	00:43	160MVA AUTO-I	to unavailability of 89A status in the busbar relay of TBC bay.	-	-	-	-	-	-	-
			17:21	18:04	00:43	100MVA AUTO-II								
			17:21	18:03	00:42	220 KV Bargarh New- New bolangir								
337	Chatrapur	31.12.21	09:35	09:45	00:10	132kV Chatrapur- IRE ckt-II	R-ph O/C	-	-	-	-	-	-	-
338	Duburi(O)	31.12.21	12:35	16:05	03:30	132kV Duburi- Kamakhyanagar	**Duburi End:**- DP, Zone-1, Y-ph to E/F, Dist-10.38km, If=5.706kA	-	-	-	-	-	-	-
339	Chatrapur	31.12.21	12:46	12:50	00:04	132 kV Chatrapur-Rambha Traction Ckt	Tripped on O/C(Rph,Yph) IR=0.24KA, IY=0.23kA	Rambha Tr	00:04	-	-	0.0003106	-	-
								-	-	-	-	-	-	-

Format - C1.1

OVERALL PERFORMANCE

Frequency Profile for the quarter (OCTOBER'21-DECEMBER'21)

Month	Total Hours	Total duration(in HRs) of frequency (> 50.05 Hz.)	Percentage of time [=(3/2) * 100]	Total duration(in HRs) of frequency (<49.9 Hz.)	Percentage of time [=(5/2) * 100]
1	2	3	4	5	6
OCTOBER	744	106.30	14.29	81.40	10.94
NOVEMBER	720	125.48	17.43	58.20	8.08
DECEMBER	744	140.67	18.91	53.53	7.20
Total	2208	372.45	16.87	193.13	8.75

OVERALL PERFORMANCE **Format - C1.2**

Frequency Profile for the quarter (OCTOBER'21-DECEMBER'21)
(Maximum continuous period of deviation)

Month	Frequency (>50.05 Hz.)			Frequency (<49.9 Hz.)			
	Total duration (HRs)	Percentage of time	Maximum continuous period of deviation with date, time and reason	Month	Total duration (HRs)	Percentage of time	Maximum continuous period of deviation with date, time and reason
1	2	3	4	5	6	7	8
DECEMBER	1.37	0.06	26.12.21 / 09:03 to 26.12.21 / 10:25	DECEMBER	2.80	0.13	20.12.21 / 00:52 to 20.12.21 / 03:40

Format - C1.3

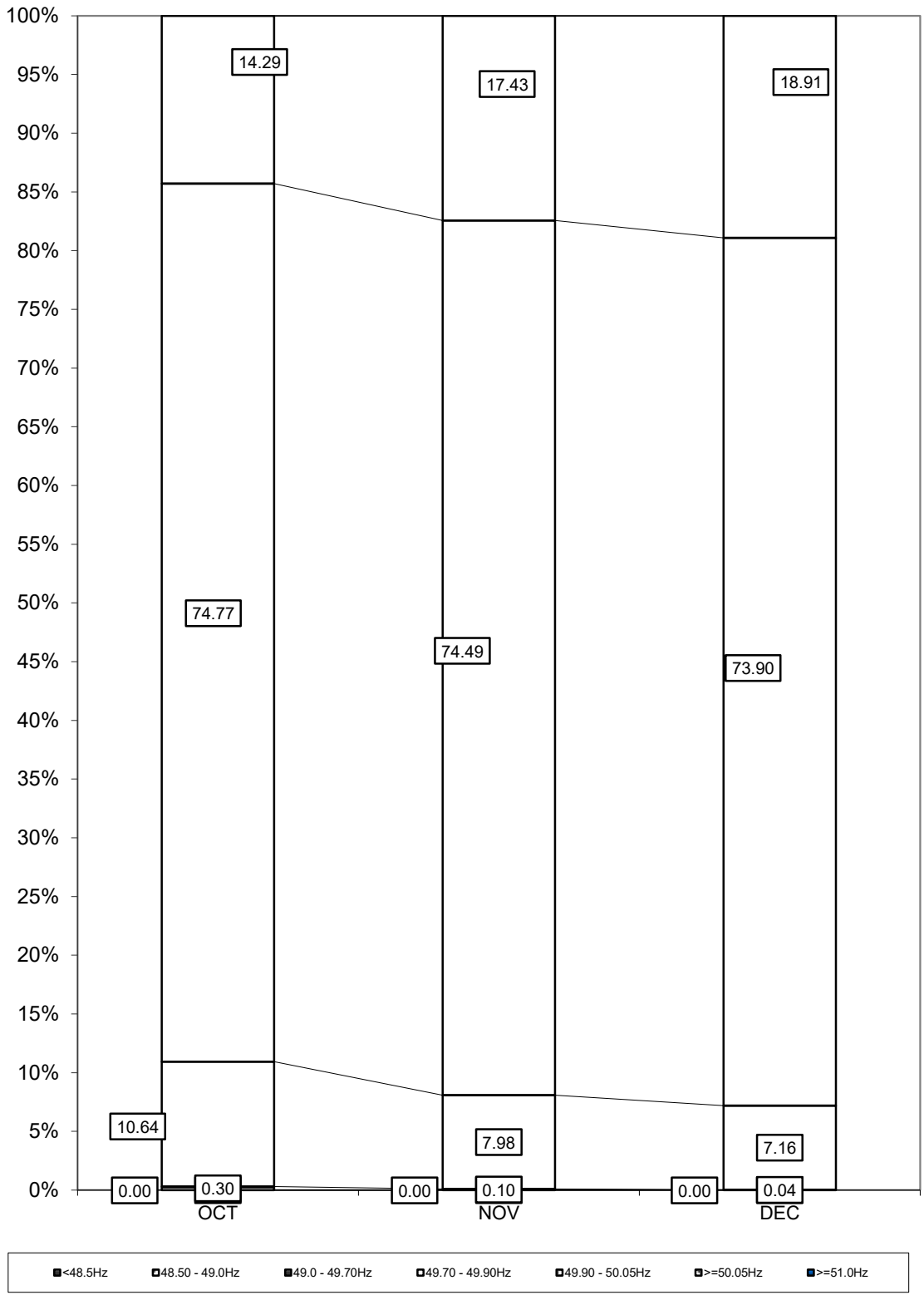
OVERALL PERFORMANCE

Frequency Profile for the quarter (OCTOBER'21-DECEMBER'21)

Lowest / Highest frequency occurrence

Highest frequency occurrence			Lowest frequency occurrence			Details of the event if there is islanding
Frequency in Hz	Date of occurrence	Time of occurrence	Frequency in Hz	Date of occurrence	Time of occurrence	
1	2	3	4	5	6	7
50.28	20.12.21	02:00	49.60	07.10.21	18:15	-

FREQUENCY PROFILE



132KV VOLTAGE AT DIFFERENT GRID SUBSTATIONS

CESU ZONE

SUBSTATIONS	01.10.21						01.11.21						01.12.21					
	MAXIMUM			MINIMUM			MAXIMUM			MINIMUM			MAXIMUM			MINIMUM		
	KV	DATE	TIME	KV	DATE	TIME	KV	DATE	TIME	KV	DATE	TIME	KV	DATE	TIME	KV	DATE	TIME
Angul	140.7	17.10.2021	14:00	134.0	06.10.2021	18:45	141.85	29.11.2021	03:45	136.0	11.11.2021	08:15	141.56	29.12.2021	02:45	134.2	22.12.2021	08:45
Argul	136.2	17.10.2021	15:15	125.7	06.10.2021	18:30	138.27	29.11.2021	03:45	130.2	03.11.2021	09:15	138.21	29.12.2021	03:00	127.9	22.12.2021	08:45
Badagada	137.0	12.10.2021	02:30	122.7	02.10.2021	15:15	140.24	29.11.2021	03:45	129.2	23.11.2021	17:45	140.48	27.12.2021	01:00	123.1	12.12.2021	08:45
Balugaon	139.0	28.10.2021	13:45	120.6	06.10.2021	19:15	139.02	22.11.2021	13:00	126.8	23.11.2021	17:45	142.02	05.12.2021	03:30	121.6	22.12.2021	08:30
Banki	137.5	03.10.2021	16:45	126.6	08.10.2021	11:45	139.31	07.11.2021	14:00	130.5	03.11.2021	09:15	139.31	29.12.2021	03:00	129.1	22.12.2021	08:45
Bhubaneswar	138.6	17.10.2021	03:45	127.7	08.10.2021	18:45	140.70	29.11.2021	03:00	130.4	14.11.2021	09:00	140.75	29.12.2021	03:00	129.2	12.12.2021	08:30
Bidanasi	138.3	17.10.2021	14:00	118.6	18.10.2021	17:45	139.31	08.11.2021	03:45	130.0	23.11.2021	17:45	138.91	29.12.2021	03:00	127.7	09.12.2021	08:15
Boinda	142.5	17.10.2021	14:00	126.6	09.10.2021	18:30	144.10	29.11.2021	04:15	127.5	03.11.2021	11:45	143.93	29.12.2021	03:00	129.0	25.12.2021	16:45
Chainpal	141.9	17.10.2021	14:00	135.3	06.10.2021	18:30	143.06	29.11.2021	03:45	137.6	11.11.2021	08:15	142.66	29.12.2021	02:45	135.6	22.12.2021	08:45
Chandaka	136.6	17.10.2021	14:45	125.9	08.10.2021	18:15	138.91	29.11.2021	03:45	129.8	23.11.2021	17:45	138.96	27.12.2021	01:00	127.2	12.12.2021	08:45
Chandpur	136.3	17.10.2021	14:45	122.6	06.10.2021	12:15	138.39	29.11.2021	03:00	129.6	08.11.2021	17:45	138.44	29.12.2021	03:00	123.8	15.12.2021	08:00
Choudwar	139.3	16.10.2021	15:30	127.3	08.10.2021	15:45	142.08	30.11.2021	22:30	129.5	12.11.2021	09:00	142.54	01.12.2021	01:00	128.2	22.12.2021	08:45
Cuttack	138.2	17.10.2021	15:00	127.5	08.10.2021	18:15	139.02	08.11.2021	03:30	129.2	23.11.2021	17:45	139.77	22.12.2021	03:30	128.7	22.12.2021	08:45
Dhenkanal	139.0	17.10.2021	14:00	129.6	08.10.2021	18:15	141.33	29.11.2021	03:00	132.1	23.11.2021	14:30	141.56	10.12.2021	02:15	125.3	10.12.2021	08:45
Jagatsinghpur	136.4	17.10.2021	15:30	118.2	10.10.2021	22:30	137.69	29.11.2021	02:15	122.7	05.11.2021	17:30	138.44	04.12.2021	01:00	123.8	11.12.2021	18:15
Kalarangi	140.1	17.10.2021	13:15	132.9	06.10.2021	18:15	141.22	29.11.2021	03:45	135.4	05.11.2021	17:30	141.68	29.12.2021	03:00	134.3	06.12.2021	08:15
Kamakhyanagar	140.7	18.10.2021	19:00	132.1	06.10.2021	18:15	141.33	29.11.2021	13:45	134.4	05.11.2021	17:30	140.41	29.12.2021	02:45	133.1	06.12.2021	08:15
Kendrapada	138.2	17.10.2021	15:30	122.3	10.10.2021	19:30	139.60	29.11.2021	02:15	126.0	05.11.2021	17:45	140.58	04.12.2021	04:00	124.2	27.12.2021	09:15
Khajuriakata	141.2	17.10.2021	14:00	133.3	08.10.2021	18:15	142.66	29.11.2021	03:45	135.5	11.11.2021	08:30	142.08	29.12.2021	03:00	124.9	10.12.2021	09:00
KhuntuniGIS	139.9	25.10.2021	03:45	126.0	08.10.2021	15:45	140.06	08.11.2021	03:15	128.3	12.11.2021	09:00	142.67	10.12.2021	02:15	126.7	10.12.2021	08:45
Khurda	136.4	17.10.2021	14:45	126.0	06.10.2021	18:30	137.35	17.11.2021	03:00	129.8	23.11.2021	17:15	138.39	29.12.2021	03:00	128.2	22.12.2021	08:45
Konark	137.6	17.10.2021	14:45	123.5	08.10.2021	18:45	140.52	29.11.2021	03:45	126.1	23.11.2021	17:15	140.93	22.12.2021	03:30	124.6	12.12.2021	08:45
Mania	138.1	16.10.2021	15:45	126.1	08.10.2021	15:45	139.95	30.11.2021	00:00	125.9	09.11.2021	18:00	143.76	10.12.2021	02:15	127.4	22.12.2021	08:45
Marshaghai	138.2	17.10.2021	15:30	122.9	10.10.2021	19:30	139.90	29.11.2021	00:00	126.1	05.11.2021	17:45	141.05	04.12.2021	04:15	124.4	27.12.2021	09:15
Nimapara	136.7	17.10.2021	15:15	123.0	08.10.2021	18:45	139.66	29.11.2021	03:45	126.7	23.11.2021	17:15	140.00	22.12.2021	03:30	123.8	12.12.2021	08:45
Nuapatana	138.3	17.10.2021	14:45	126.5	08.10.2021	10:30	138.79	20.11.2021	03:15	130.2	05.11.2021	17:30	139.83	29.12.2021	02:45	128.9	10.12.2021	09:15
Olaver	137.1	17.10.2021	15:30	119.3	10.10.2021	19:30	139.14	29.11.2021	02:15	124.9	05.11.2021	17:45	141.31	29.12.2021	04:15	127.0	18.12.2021	08:45
Paradeep	136.7	17.10.2021	15:30	124.2	10.10.2021	19:30	137.58	29.11.2021	00:00	125.4	05.11.2021	17:45	138.39	04.12.2021	04:15	126.1	06.12.2021	08:15
Pattamundai	136.8	17.10.2021	15:30	120.0	10.10.2021	19:30	138.68	29.11.2021	02:00	124.5	05.11.2021	17:45	140.18	30.12.2021	03:30	126.6	06.12.2021	08:15
Phulnakhara	138.0	17.10.2021	03:45	126.1	08.10.2021	18:45	140.06	29.11.2021	03:00	129.6	23.11.2021	17:45	140.64	22.12.2021	03:30	128.6	22.12.2021	08:45
Puri	132.6	18.10.2021	04:45	111.7	07.10.2021	16:45	137.52	08.11.2021	03:30	122.2	23.11.2021	17:45	137.64	04.12.2021	04:00	124.3	22.12.2021	08:30
Ranasinghpur	137.2	17.10.2021	14:45	120.7	02.10.2021	15:00	139.89	29.11.2021	03:45	124.6	23.11.2021	17:15	140.00	27.12.2021	01:00	128.1	22.12.2021	08:30
Salipur	136.8	16.10.2021	15:30	123.8	06.10.2021	18:30	139.71	30.11.2021	00:00	126.3	22.11.2021	17:15	143.29	10.12.2021	02:15	125.2	27.12.2021	09:15
Samangara	134.4	06.10.2021	06:00	118.7	08.10.2021	23:00	141.04	29.11.2021	03:45	125.9	23.11.2021	17:30	141.39	22.12.2021	03:30	124.9	12.12.2021	08:45
Shamuka	134.0	18.10.2021	04:45	118.7	06.10.2021	18:45	136.65	29.11.2021	03:30	125.0	23.11.2021	18:00	138.10	04.12.2021	04:15	125.0	22.12.2021	08:45
Tirtol	137.1	17.10.2021	15:30	119.7	10.10.2021	19:30	138.47	29.11.2021	02:15	124.4	05.11.2021	17:45	139.44	04.12.2021	04:15	125.8	18.12.2021	09:00
Unit-8GIS	138.3	17.10.2021	15:15	128.9	08.10.2021	18:45	139.54	18.11.2021	02:45	128.9	23.11.2021	17:45	136.94	04.12.2021	03:15	126.8	22.12.2021	08:45

132KV VOLTAGE AT DIFFERENT GRID SUBSTATIONS

NESCO ZONE

SUBSTATIONS	01.10.21						01.11.21						01.12.21					
	MAXIMUM			MINIMUM			MAXIMUM			MINIMUM			MAXIMUM			MINIMUM		
	KV	DATE	TIME	KV	DATE	TIME	KV	DATE	TIME	KV	DATE	TIME	KV	DATE	TIME	KV	DATE	TIME
Agarpada	138.8	03.10.2021	17:15	128.0	06.10.2021	18:15	139.60	29.11.2021	03:30	130.5	10.11.2021	08:30	140.27	29.12.2021	04:15	132.2	06.12.2021	08:15
Anandpur	139.5	18.10.2021	13:15	130.6	06.10.2021	18:15	140.70	29.11.2021	03:30	129.0	10.11.2021	08:30	141.16	29.12.2021	03:00	132.9	06.12.2021	08:15
Balasore	139.0	17.10.2021	13:15	130.5	06.10.2021	18:15	140.47	29.11.2021	03:30	130.5	05.11.2021	18:15	140.47	02.12.2021	14:00	132.6	23.12.2021	08:30
Bangiriposi	137.3	17.10.2021	11:00	125.9	08.10.2021	18:45	138.16	29.11.2021	03:30	130.0	11.11.2021	17:30	138.91	29.12.2021	02:00	129.6	23.12.2021	08:30
Barbil	135.3	17.10.2021	14:00	126.3	06.10.2021	10:30	135.27	16.11.2021	04:00	123.3	11.11.2021	11:30	135.85	29.12.2021	03:00	123.8	21.12.2021	12:15
Baripada	135.8	17.10.2021	13:30	127.2	08.10.2021	18:45	137.48	29.11.2021	03:30	130.6	24.11.2021	17:45	137.65	20.12.2021	02:00	123.4	23.12.2021	08:30
Basta	138.6	16.10.2021	15:15	122.5	25.10.2021	16:30	139.43	29.11.2021	03:15	130.2	05.11.2021	18:00	139.43	20.12.2021	02:00	127.4	29.12.2021	08:00
Betanati	136.2	16.10.2021	16:00	126.2	10.10.2021	23:00	137.57	29.11.2021	03:30	129.8	05.11.2021	18:00	137.57	29.12.2021	03:00	123.9	23.12.2021	08:30
Bhadrak	138.2	03.10.2021	17:15	128.3	06.10.2021	18:15	139.31	13.11.2021	05:00	128.4	05.11.2021	04:00	139.89	14.12.2021	02:00	127.9	31.12.2021	07:30
Bhograi	137.9	16.10.2021	15:00	124.1	25.10.2021	16:30	138.24	20.11.2021	04:00	129.6	05.11.2021	19:00	138.24	20.12.2021	02:00	128.2	29.12.2021	08:00
Bolani	134.8	17.10.2021	14:15	125.6	06.10.2021	10:30	135.04	16.11.2021	04:00	124.9	12.11.2021	08:30	135.44	01.12.2021	16:30	123.8	21.12.2021	12:15
ChandabaliGIS	133.7	17.10.2021	11:15	115.0	07.10.2021	22:30	133.85	08.11.2021	02:30	120.7	24.11.2021	18:15	134.31	29.12.2021	03:00	120.7	20.12.2021	09:30
Chandikhol	140.3	18.10.2021	17:00	121.4	10.10.2021	19:30	140.75	29.11.2021	03:30	129.1	17.11.2021	17:15	141.39	29.12.2021	04:15	126.3	20.12.2021	09:30
Dhenkikote	136.9	17.10.2021	11:00	118.7	08.10.2021	18:45	136.94	19.11.2021	14:00	123.7	11.11.2021	14:15	140.12	29.12.2021	02:00	123.6	24.12.2021	09:45
DuburiO	139.8	17.10.2021	06:15	131.8	06.10.2021	18:15	141.10	29.11.2021	03:30	134.6	22.11.2021	17:30	141.56	29.12.2021	03:00	133.4	06.12.2021	08:15
JajpurRoad	139.7	17.10.2021	06:15	131.3	06.10.2021	18:15	140.98	29.11.2021	03:30	133.7	22.11.2021	17:30	141.50	29.12.2021	03:00	133.1	06.12.2021	08:15
JajpurTown	136.7	18.10.2021	17:15	124.1	06.10.2021	20:45	138.10	29.11.2021	03:30	123.1	05.11.2021	04:15	138.68	04.12.2021	04:15	130.1	22.12.2021	08:30
Jaleswar	137.6	16.10.2021	15:15	122.6	25.10.2021	16:30	138.44	29.11.2021	03:15	129.9	05.11.2021	18:15	138.39	20.12.2021	02:00	127.7	29.12.2021	08:00
Joda	135.0	17.10.2021	14:15	126.0	06.10.2021	10:30	135.10	06.11.2021	06:00	129.1	12.11.2021	18:45	135.50	29.12.2021	02:45	125.2	22.12.2021	09:45
Karanjia	137.3	17.10.2021	11:00	119.2	08.10.2021	18:45	137.29	29.11.2021	00:45	123.7	11.11.2021	14:15	140.23	29.12.2021	02:00	123.8	24.12.2021	09:30
Polasponga	134.1	19.10.2021	05:00	122.2	06.10.2021	10:30	136.65	12.11.2021	14:15	118.4	11.11.2021	14:15	135.50	21.12.2021	13:00	122.0	22.12.2021	09:45
Rairangpur	136.4	17.10.2021	11:00	121.6	08.10.2021	18:45	136.54	29.11.2021	00:45	126.7	11.11.2021	17:30	138.39	29.12.2021	02:00	123.4	28.12.2021	11:30
Somnathpur	138.7	17.10.2021	13:15	130.1	06.10.2021	18:15	140.06	29.11.2021	03:30	130.2	05.11.2021	18:00	140.18	29.12.2021	03:00	132.2	23.12.2021	08:30
Soro	137.9	03.10.2021	17:15	107.6	09.10.2021	09:00	139.20	29.11.2021	03:30	129.4	05.11.2021	04:15	139.31	27.12.2021	01:15	130.6	20.12.2021	09:15
Udala	137.7	17.10.2021	11:15	126.3	10.10.2021	23:00	138.84	29.11.2021	03:30	130.2	05.11.2021	18:15	139.25	29.12.2021	04:00	127.4	23.12.2021	08:30

SOUTHCO ZONE

SUBSTATIONS	01.10.21						01.11.21						01.12.21					
	MAXIMUM			MINIMUM			MAXIMUM			MINIMUM			MAXIMUM			MINIMUM		
	KV	DATE	TIME	KV	DATE	TIME	KV	DATE	TIME	KV	DATE	TIME	KV	DATE	TIME	KV	DATE	TIME
Akhusingh	138.0	15.10.2021	12:45	119.3	13.10.2021	18:00	142.02	12.11.2021	21:45	122.2	24.11.2021	18:00	143.53	04.12.2021	04:45	121.4	26.12.2021	07:45
Aska	140.2	17.10.2021	13:00	129.8	07.10.2021	18:30	141.56	29.11.2021	02:45	130.7	24.11.2021	17:30	141.74	03.12.2021	02:00	128.6	23.12.2021	08:15
Berhampur	138.8	17.10.2021	15:00	125.2	06.10.2021	19:15	140.70	02.11.2021	07:00	130.2	23.11.2021	17:15	141.97	05.12.2021	03:30	124.5	22.12.2021	08:30
Bhanjanagar	137.9	17.10.2021	13:15	129.0	06.10.2021	18:15	139.37	29.11.2021	03:00	131.8	01.11.2021	08:15	140.64	20.12.2021	03:15	129.9	23.12.2021	08:30
Boudh	133.9	12.10.2021	11:45	119.0	06.10.2021	18:00	137.66	22.11.2021	14:00	121.3	01.11.2021	17:45	141.15	29.12.2021	02:45	124.2	31.12.2021	17:45
Chatrapur	139.1	15.10.2021	13:45	124.9	06.10.2021	19:15	140.81	02.11.2021	07:00	130.1	23.11.2021	17:15	142.20	05.12.2021	03:30	124.4	22.12.2021	08:30
Chikiti	139.8	15.10.2021	14:00	128.3	07.10.2021	18:30	141.39	29.11.2021	03:00	132.6	01.11.2021	08:15	141.68	03.12.2021	02:45	124.0	26.12.2021	07:45
Dabugaon	132.9	15.10.2021	13:45	121.3	28.10.2021	09:15	134.06	28.11.2021	15:00	121.5	16.11.2021	18:30	133.87	18.12.2021	02:30	123.9	31.12.2021	09:00
Digapahandi	142.0	15.10.2021	13:45	130.4	07.10.2021	18:30	143.64	29.11.2021	03:45	134.4	01.11.2021	08:15	143.87	03.12.2021	02:00	125.9	26.12.2021	07:45
Ganjam	141.9	15.10.2021	13:45	126.3	06.10.2021	19:15	143.27	02.11.2021	04:15	132.3	23.11.2021	17:15	145.16	05.12.2021	03:30	126.3	22.12.2021	08:30
Jayanagar	140.5	15.10.2021	13:45	133.7	09.10.2021	18:45	138.50	28.11.2021	15:00	132.8	23.11.2021	10:30	139.43	15.12.2021	00:00	131.3	28.12.2021	16:30
Mohana	138.0	15.10.2021	13:00	120.5	13.10.2021	15:00	141.47	12.11.2021	21:45	122.1	23.11.2021	17:45	143.29	04.12.2021	04:30	122.4	26.12.2021	08:00
Narendrapur	143.2	17.10.2021	15:00	115.5	21.10.2021	10:30	144.91	02.11.2021	07:00	134.1	23.11.2021	17:15	145.83	05.12.2021	03:30	128.3	22.12.2021	08:30
Paralakhemendi	137.2	08.10.2021	13:30	117.7	13.10.2021	18:00	138.56	30.11.2021	01:45	121.0	24.11.2021	18:00	143.06	04.12.2021	04:45	120.6	26.12.2021	07:45
Phulbani	138.2	17.10.2021	13:00	125.5	08.10.2021	18:15	139.60	28.11.2021	15:30	129.3	23.11.2021	18:00	140.52	30.12.2021	04:00	127.1	23.12.2021	08:30
Podagada	141.0	26.10.2021	14:00	126.9	13.10.2021	16:15	143.87	13.11.2021	03:00	128.6	23.11.2021	17:45	144.17	04.12.2021	03:45	127.5	25.12.2021	12:00
Potangi	137.0	15.10.2021	13:45	128.3	22.10.2021	08:45	141.31	12.11.2021	21:45	128.3	17.11.2021	18:15	141.63	04.12.2021	04:45	123.8	25.12.2021	12:00
Purushottampur	138.2	17.10.2021	13:00	124.0	22.10.2021	08:45	140.41	30.11.2021	03:00	128.6	23.11.2021	17:15	140.55	03.12.2021	03:30	125.3	23.12.2021	08:30
Rayagada	143.4	15.10.2021	13:45	133.0	06.10.2021	18:15	145.26	13.11.2021	03:00	127.4	23.11.2021	17:45	147.06	18.12.2021	22:00	128.4	25.12.2021	12:00
Sunabeda	139.9	15.10.2021	13:45	131.7	22.10.2021	08:30	138.44	28.11.2021	17:00	131.6	20.11.2021	08:15	139.54	15.12.2021	00:00	130.7	31.12.2021	09:00
Tentulikhunti	139.0	15.10.2021	13:45	125.3	28.10.2021	09:15	138.79	28.11.2021	13:30	131.4	16.11.2021	08:15	139.20	18.12.2021	14:30	130.4	28.12.2021	18:45
Therubali	142.6	15.10.2021	13:45	132.7	06.10.2021	18:15	144.10	28.11.2021	14:00	135.7	15.11.2021	18:15	145.08	18.12.2021	23:30	132.6	21.12.2021	18:00
Umerkote	136.7	15.10.2021	12:00	124.5	28.10.2021	09:15	138.33	28.11.2021	00:15	126.7	18.11.2021	17:45	137.50	10.12.2021	01:45	125.1	20.12.2021	17:45

132KV VOLTAGE AT DIFFERENT GRID SUBSTATIONS

WESCO ZONE

SUBSTATIONS	01.10.21						01.11.21						01.12.21					
	MAXIMUM			MINIMUM			MAXIMUM			MINIMUM			MAXIMUM			MINIMUM		
	KV	DATE	TIME	KV	DATE	TIME	KV	DATE	TIME	KV	DATE	TIME	KV	DATE	TIME	KV	DATE	TIME
Barapalli	136.6	02.10.2021	03:45	120.4	09.10.2021	16:00	138.50	14.11.2021	04:15	122.6	01.11.2021	09:00	142.31	28.12.2021	23:45	123.8	31.12.2021	09:00
Bargarh	138.2	05.10.2021	11:15	117.9	08.10.2021	06:30	136.94	14.11.2021	13:45	119.7	12.11.2021	11:00	139.08	29.12.2021	03:00	121.8	22.12.2021	08:15
Bhawanipatna	139.0	29.10.2021	13:30	109.4	06.10.2021	18:15	144.67	30.11.2021	13:45	118.1	22.11.2021	18:30	145.59	20.12.2021	14:15	115.7	28.12.2021	18:15
Bolangir	138.8	02.10.2021	04:00	127.3	09.10.2021	18:30	139.83	15.11.2021	14:00	127.8	01.11.2021	17:45	143.24	30.12.2021	01:15	128.5	31.12.2021	09:00
Brajarajnagar	138.1	13.10.2021	03:15	124.4	09.10.2021	12:00	139.60	29.11.2021	03:00	129.1	07.11.2021	11:30	140.96	28.12.2021	21:45	134.0	22.12.2021	08:45
Budhipadar	134.6	01.10.2021	03:30	121.6	09.10.2021	12:00	136.02	29.11.2021	04:15	126.4	07.11.2021	11:30	136.71	28.12.2021	22:00	131.1	22.12.2021	08:45
Chend	135.8	03.10.2021	22:00	129.6	09.10.2021	12:00	136.37	29.11.2021	00:30	130.4	11.11.2021	09:15	136.60	20.12.2021	02:15	129.6	21.12.2021	10:45
ChipilimaP.H.	136.7	05.10.2021	11:15	128.1	25.10.2021	18:00	136.55	29.11.2021	01:15	128.3	02.11.2021	18:00	139.32	29.12.2021	03:00	130.5	23.12.2021	18:30
Ghens	133.8	18.10.2021	14:30	119.8	31.10.2021	16:30	137.17	14.11.2021	13:45	119.9	01.11.2021	17:45	139.83	29.12.2021	03:00	123.3	22.12.2021	08:15
Jharsuguda	135.8	01.10.2021	04:15	123.1	09.10.2021	12:00	137.58	29.11.2021	00:30	131.6	30.11.2021	10:30	138.33	29.12.2021	03:45	132.5	22.12.2021	08:45
Jayapatna	134.9	17.10.2021	13:15	127.6	06.10.2021	19:15	138.16	28.11.2021	14:00	127.8	23.11.2021	09:15	138.85	19.12.2021	03:00	128.1	28.12.2021	18:45
Junagarah	136.2	29.10.2021	13:30	107.9	06.10.2021	18:15	142.25	30.11.2021	13:45	115.9	22.11.2021	18:30	143.12	20.12.2021	13:15	116.3	21.12.2021	17:45
Kalunga	136.7	17.10.2021	14:00	129.6	09.10.2021	12:00	137.21	29.11.2021	00:30	126.0	23.11.2021	11:30	137.69	20.12.2021	02:15	129.8	21.12.2021	16:45
Kantabanji	147.3	09.10.2021	13:00	118.7	02.10.2021	18:30	141.62	14.11.2021	13:15	117.8	01.11.2021	17:30	146.87	30.12.2021	01:15	115.3	09.12.2021	08:30
Katapali	136.4	05.10.2021	11:15	130.2	27.10.2021	10:30	136.37	29.11.2021	00:45	130.4	02.11.2021	18:00	138.33	29.12.2021	03:00	131.4	23.12.2021	18:30
Kesinga	141.1	18.10.2021	15:30	109.0	06.10.2021	18:15	141.74	30.11.2021	13:45	116.6	22.11.2021	18:30	142.83	20.12.2021	13:15	117.1	28.12.2021	18:15
Khariar	146.9	05.10.2021	18:00	115.1	02.10.2021	18:30	152.12	12.11.2021	13:45	122.5	01.11.2021	17:45	148.03	28.12.2021	23:45	121.3	31.12.2021	09:00
Kuchinda	135.1	16.10.2021	17:15	122.7	09.10.2021	12:15	136.77	29.11.2021	00:45	127.6	10.11.2021	04:45	139.37	29.12.2021	01:30	113.1	27.12.2021	06:30
Lapanga	136.3	01.10.2021	04:15	123.0	09.10.2021	12:15	137.46	29.11.2021	04:15	132.2	30.11.2021	10:30	138.62	29.12.2021	03:45	132.9	22.12.2021	08:15
Maneswar	136.5	05.10.2021	11:15	129.6	27.10.2021	18:15	142.35	11.11.2021	14:15	130.3	01.11.2021	18:00	139.37	15.12.2021	16:00	131.3	26.12.2021	09:00
Nuapada	137.5	19.10.2021	05:15	115.4	06.10.2021	18:15	142.12	14.11.2021	13:00	120.8	01.11.2021	17:45	146.50	30.12.2021	01:15	115.7	09.12.2021	08:15
Padampur	143.4	02.10.2021	04:00	121.2	06.10.2021	18:15	145.33	19.11.2021	14:00	104.1	15.11.2021	13:00	152.30	30.12.2021	01:15	123.5	09.12.2021	08:30
Patnagarh	137.9	02.10.2021	04:00	123.6	06.10.2021	18:15	138.96	19.11.2021	14:00	125.1	01.11.2021	17:45	143.58	30.12.2021	01:15	127.0	09.12.2021	08:30
Rairakhol	142.5	18.10.2021	13:15	128.0	09.10.2021	18:30	144.39	29.11.2021	04:15	128.9	03.11.2021	08:15	144.28	29.12.2021	03:45	129.9	26.12.2021	09:00
Rajgangpur	136.4	04.10.2021	03:30	127.9	09.10.2021	12:00	137.06	29.11.2021	00:30	130.8	11.11.2021	09:30	137.06	20.12.2021	02:30	129.3	21.12.2021	10:30
Rourkela	136.3	17.10.2021	14:00	130.1	09.10.2021	12:00	136.83	29.11.2021	00:30	130.8	11.11.2021	09:15	137.00	20.12.2021	02:15	130.2	21.12.2021	10:45
Sadeipali	137.6	02.10.2021	04:00	126.5	21.10.2021	18:15	138.62	15.11.2021	14:00	126.9	01.11.2021	17:45	142.02	30.12.2021	01:15	127.5	31.12.2021	09:00
Sambalpur	136.7	05.10.2021	11:15	130.1	27.10.2021	18:15	137.12	29.11.2021	00:30	131.2	01.11.2021	18:00	138.91	29.12.2021	03:45	132.0	22.12.2021	08:15
Sonepur	134.1	12.10.2021	12:00	119.0	09.10.2021	18:30	137.52	19.11.2021	14:00	121.9	01.11.2021	17:45	141.33	29.12.2021	03:00	124.1	31.12.2021	18:00
Sundargarah	136.8	01.10.2021	03:30	126.6	09.10.2021	12:00	138.10	29.11.2021	03:00	128.2	07.11.2021	11:30	139.02	29.12.2021	04:00	132.9	22.12.2021	08:45
Tusura	135.0	01.10.2021	13:15	116.8	04.10.2021	15:45	140.11	19.11.2021	13:45	120.3	16.11.2021	09:45	141.49	30.12.2021	01:30	123.2	31.12.2021	18:00

400KV VOLTAGE AT DIFFERENT GRID SUBSTATIONS

SUBSTATIONS	01.10.21						01.11.21						01.12.21					
	MAXIMUM			MINIMUM			MAXIMUM			MINIMUM			MAXIMUM			MINIMUM		
	KV	DATE	TIME	KV	DATE	TIME	KV	DATE	TIME	KV	DATE	TIME	KV	DATE	TIME	KV	DATE	TIME
Duburi Old	420.7	17.10.2021	13:00	405.2	08.10.2021	18:45	423.0	29.11.2021	03:30	408.9	08.11.2021	18:00	426.4	05.12.2021	03:00	406.5	22.12.2021	08:45
Lapanga	412.3	17.10.2021	14:00	403.9	29.10.2021	16:45	412.7	29.11.2021	03:45	403.7	08.11.2021	17:45	414.3	29.12.2021	03:00	403.7	14.12.2021	15:45
Mendhasal	418.6	17.10.2021	14:45	397.5	08.10.2021	18:45	422.1	29.11.2021	03:00	403.7	23.11.2021	17:45	425.2	22.12.2021	03:30	399.9	22.12.2021	08:45
Meramundali	428.3	17.10.2021	13:00	415.9	06.10.2021	18:15	430.2	29.11.2021	03:00	416.5	23.11.2021	17:45	433.4	29.12.2021	02:45	412.9	17.12.2021	11:30

220KV VOLTAGE AT DIFFERENT GRID SUBSTATIONS

SUBSTATIONS	01.10.21						01.11.21						01.12.21					
	MAXIMUM			MINIMUM			MAXIMUM			MINIMUM			MAXIMUM			MINIMUM		
	KV	DATE	TIME	KV	DATE	TIME	KV	DATE	TIME	KV	DATE	TIME	KV	DATE	TIME	KV	DATE	TIME
AskaN	233.4	17.10.2021	13:00	216.7	07.10.2021	18:30	236.0	29.11.2021	03:00	222.7	01.11.2021	08:15	236.1	03.12.2021	02:00	214.6	23.12.2021	08:30
Atri	232.8	17.10.2021	15:15	218.2	08.10.2021	18:45	235.4	29.11.2021	03:45	222.9	23.11.2021	17:45	237.6	29.12.2021	03:00	221.1	22.12.2021	08:45
Balasore	231.6	17.10.2021	13:15	218.2	06.10.2021	18:15	233.9	29.11.2021	03:30	223.0	12.11.2021	17:30	234.0	22.12.2021	03:15	221.6	23.12.2021	08:30
Balimela	244.4	15.10.2021	13:45	233.1	22.10.2021	10:30	242.9	28.11.2021	15:45	233.2	18.11.2021	08:30	242.7	01.12.2021	03:00	230.2	28.12.2021	16:30
Barkote	235.3	25.10.2021	00:00	224.1	05.10.2021	17:30	234.9	14.11.2021	16:00	224.0	15.11.2021	17:30	237.3	28.12.2021	23:15	221.3	22.12.2021	09:45
Bargarh	223.8	02.10.2021	04:00	205.4	31.10.2021	17:00	226.9	14.11.2021	13:45	205.5	01.11.2021	18:00	231.4	30.12.2021	02:45	211.5	22.12.2021	08:15
Bhadrak	232.6	17.10.2021	06:15	217.8	06.10.2021	18:15	235.4	29.11.2021	03:30	223.9	05.11.2021	18:15	235.6	27.12.2021	01:15	223.4	06.12.2021	08:15
Bhanjanagar	237.3	17.10.2021	13:00	222.4	07.10.2021	18:30	239.5	29.11.2021	03:45	227.1	01.11.2021	08:15	241.4	20.12.2021	02:45	223.5	23.12.2021	08:30
Bidanasi	232.5	17.10.2021	14:45	216.2	08.10.2021	18:45	235.7	18.11.2021	02:45	221.0	11.11.2021	17:30	239.5	29.12.2021	03:00	217.5	22.12.2021	08:45
BolangirN	226.9	02.10.2021	04:00	212.3	31.10.2021	17:45	228.4	15.11.2021	14:00	212.3	01.11.2021	17:45	234.1	30.12.2021	02:45	213.0	09.12.2021	08:30
Budhipadar	229.4	01.10.2021	04:15	203.0	13.10.2021	16:15	230.9	30.11.2021	23:45	203.9	30.11.2021	11:00	231.9	29.12.2021	03:45	224.4	22.12.2021	08:15
Chandaka	226.2	17.10.2021	14:45	211.6	08.10.2021	18:15	230.1	29.11.2021	03:45	216.7	01.11.2021	08:15	232.1	29.12.2021	03:00	214.8	22.12.2021	08:45
Cuttack	230.1	17.10.2021	15:15	214.5	08.10.2021	18:45	235.8	29.11.2021	03:45	219.9	23.11.2021	18:00	238.4	29.12.2021	03:00	220.3	22.12.2021	08:45
Duburi Old	232.3	17.10.2021	13:15	220.3	06.10.2021	18:15	233.8	29.11.2021	03:30	224.6	22.11.2021	17:30	234.3	29.12.2021	03:00	220.7	06.12.2021	08:15
Duburi New	233.9	17.10.2021	13:30	221.8	06.10.2021	18:15	235.6	29.11.2021	03:30	226.2	22.11.2021	17:30	236.0	29.12.2021	03:00	222.0	06.12.2021	08:15
Infocity-II GIS	233.3	17.10.2021	15:15	218.6	08.10.2021	18:45	236.4	29.11.2021	03:45	223.3	23.11.2021	17:45	238.4	29.12.2021	03:00	221.9	22.12.2021	08:45
Jayanagar	242.4	15.10.2021	13:45	230.9	08.10.2021	18:15	239.6	28.11.2021	15:00	231.3	23.11.2021	10:30	241.0	18.12.2021	14:00	228.6	28.12.2021	16:30
Joda	229.5	05.10.2021	11:15	217.9	27.10.2021	18:15	227.9	29.11.2021	01:15	218.7	02.11.2021	18:45	231.2	29.12.2021	03:00	220.0	22.12.2021	08:15
Katapalli	229.5	05.10.2021	11:15	217.9	27.10.2021	18:15	227.9	29.11.2021	01:15	218.8	02.11.2021	18:15	231.2	29.12.2021	03:00	219.8	22.12.2021	08:15
KeonjharGIS	222.2	17.10.2021	14:00	214.6	01.10.2021	18:15	224.1	13.11.2021	13:45	216.5	12.11.2021	09:00	223.2	22.12.2021	03:30	214.9	22.12.2021	08:45
Lapanga	227.7	18.10.2021	14:00	222.0	31.10.2021	10:15	229.1	29.11.2021	03:45	204.1	30.11.2021	10:30	230.6	29.12.2021	03:00	204.7	26.12.2021	07:45
Laxmipur	241.8	15.10.2021	13:45	229.1	06.10.2021	19:15	242.0	28.11.2021	14:00	231.2	23.11.2021	17:45	242.8	19.12.2021	03:00	219.7	31.12.2021	10:15
Malkangiri	234.1	15.10.2021	13:45	223.7	22.10.2021	10:45	236.1	13.11.2021	02:15	215.8	17.11.2021	17:15	237.8	29.12.2021	04:30	210.6	18.12.2021	08:45
Mendhasal	234.0	17.10.2021	14:45	219.3	08.10.2021	18:45	237.3	29.11.2021	03:45	224.0	23.11.2021	17:45	239.3	22.12.2021	03:30	225.2	23.12.2021	08:30
Meramundali	231.8	17.10.2021	14:00	221.3	05.10.2021	09:15	233.3	29.11.2021	03:45	225.8	12.11.2021	09:45	233.2	29.12.2021	02:45	224.2	22.12.2021	08:45
Narsinghpur	226.3	17.10.2021	14:45	215.1	08.10.2021	18:15	228.1	29.11.2021	03:45	218.8	01.11.2021	08:15	228.7	29.12.2021	03:00	217.0	22.12.2021	08:45
Narendrapur	234.2	17.10.2021	14:45	215.1	22.10.2021	08:45	237.5	02.11.2021	07:00	220.2	23.11.2021	17:15	240.1	23.12.2021	23:15	218.5	01.12.2021	07:15
Nayagarh	234.0	17.10.2021	13:00	219.2	08.10.2021	18:45	236.5	29.11.2021	03:00	223.7	23.11.2021	17:45	238.6	05.12.2021	03:30	222.0	22.12.2021	08:45
Paradeep	233.5	17.10.2021	15:30	214.9	06.10.2021	22:30	235.2	29.11.2021	03:15	215.3	05.11.2021	17:45	236.9	25.12.2021	00:45	221.3	06.12.2021	08:15
Tarkera	230.4	17.10.2021	14:00	221.8	30.10.2021	16:30	230.3	29.11.2021	03:15	222.2	08.11.2021	16:45	230.7	19.12.2021	02:00	215.9	28.12.2021	10:15
Theruvali	238.0	15.10.2021	13:45	221.6	06.10.2021	18:15	240.6	28.11.2021	14:00	226.5	15.11.2021	18:15	242.2	18.12.2021	23:30	221.4	21.12.2021	18:00
Rengali	230.1	25.10.2021	00:00	223.9	06.10.2021	18:15	230.6	29.11.2021	03:00	223.9	22.11.2021	18:00	232.4	27.12.2021	01:00	224.2	22.12.2021	08:45

Percentage of time voltage in the Quarter was beyond levels permitted under CEA (Grid Standards) Regulations, 2010.

Name of the Grid Sub-station	Hours in the Quarter	400 kV				220 kV				132 kV				Maximum continuous period of deviation : with date and time*		Reasons for such deviation**	Tap position in concerned transformer during extreme condition.	
		Hours in the Quarter voltage went beyond 420 kV	%	Hours in the Quarter voltage went below 380 kV	%	Hours in the Quarter voltage went beyond 245 kV	%	Hours in the Quarter voltage went below 198 kV	%	Hours in the Quarter voltage went beyond 145 kV	%	Hours in the Quarter voltage went below 122 kV	%	220 kV	132 kV		Auto Transformer	Power Transformer
1	2	3	4	5	6	3	4	5	6	7	8	9	10	11	12	13	14	15
Balasore		0	0	0	0	0	0	0	0	0	0	0	0					
Bhanjanagar		0	0	0	0	0	0	0	0	0	0	0	0					
Bidanasi		0	0	0	0	0	0	0	0	0	0	0.25	1E-04					
Bolangir New		0	0	0	0	0	0	0	0	0	0	0	0					
Budhipadar		0	0	0	0	0	0	0	0	0	0	0	0					
Chandaka		0	0	0	0	0	0	0	0	0	0	0	0					
Cuttack		0	0	0	0	0	0	0	0	0	0	0	0					
Duburi New		212.5	0.1	0	0	0	0	0	0	0	0	0	0					
Jayanagar		0	0	0	0	0	0	0	0	0	0	0	0					
Joda		0	0	0	0	0	0	0	0	0	0	0	0					
Meramundali		1912	0.87	0	0	0	0	0	0	0	0	0	0					
Narendrapur		0	0	0	0	0	0.0000	0	0	0	0	2	9E-04					
Tarkera		0	0	0	0	0	0	0	0	0	0	0	0					
Theruvali		0	0	0	0	0	0	0	0	0	0.0000	0	0					

*Data relates to those Sub-stations where analog instrument facilities are available.

**Specific reasons, if any, may be mentioned.

Data for the above sub-stations could not be furnished for want of analog facilities.

GENERATION CAPACITY

SL.NO.				
1	O.H.P.C.			
	HIRAKUD POWER STATION			
	(a)BURLA	2 x 49.5 = 99 2 x 32 = 64 3 x 37.5 = 112.5	275.5	134
	(b)CHIPLIMA	3 x 24 = 72		
	BALIMELA POWER HOUSE	6 x 60+2 x75 = 510		135
	RENGALI POWER HOUSE	5 x 50 = 250		60
	UPPER KOLAB POWER HOUSE	4 x 80 = 320		95
	INDRAVATI POWER HOUSE	4 x 150 = 600		224
	MACHHKUND POWER HOUSE (Orissa Share 30% purchase upto 20% extra)	3 x 17 = 51 3 x 23 = 69	36	30
	TOTAL HYDRO , (A)	2063.5		
2	N.T.P.C.(TAKEN OVER)			
	TTPS STAGE-I**	4 x 60 = 240		160.2
	TTPS STAGE - II	2 x 110 = 220		146.85
	TOTAL TTPS	= 460		
3	O.P.G.C.			
	IB TPS STAGE-I	2 x 210 = 420		342.09
	IB TPS STAGE-II	2 X 660 = 1320 (ORISSA SHARE = 990)		680
	TOTAL THERMAL , (B)	1870		

CENTRAL SECTOR GENERATION

SL.NO.	NAME OF POWER STATION	INSTALLED CAPACITY IN MW	SHARE OF INSTALLED CAPACITY OF GRIDCO		AUX. CONS.	% AGE AVAILABILITY(excluding UA)
			SHARE IN %	MW		
1	CHUKHA (BHUTAN)	4 x 84 = 336 (270MW considered for calculating share)	15.19	41		85
2	TALA (BHUTAN)	6 x 170 = 1020	4.25	43.4		
3	FARAKKA (WEST BENGAL)	3 x 200 = 600	13.63	218.08	7.5	77.91
		2 x 500 = 1000				
		1 x 500 = 500	16.62	83.1		85
4	KAHALGAON (BIHAR)	4 x 210 = 840	15.24	132.47	9	53.98
		3 x 500 = 1500	2.05	39.3	9	62.11
5	TSTPP, KANIHA (ORISSA)	2 x 500 = 1000	31.8	318	7.5	85
		4 x 500 = 2000	10	200	7.5	
6	TEETSA	3 x 170 = 510	20.59	105		85
7	MANGDECHU HEP (BHUTAN)	4 X 180 = 720	12.57	90.87		
8	MTPS (BIHAR)	2 X 195 = 390	8.53	33.27		
9	DARLIPALI STPS	1 X 800 = 800	58.82	470.56		
		Total ISGS		1775.05		

GRAND TOTAL (A) + (B) + (C) = 5708.55 MW

* *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 nerms. ISGS share of power is as per CGS power allocation sheet of CEA as on 01.07.2013.*

FORMAT-D.2

MONTHLY NET GENERATION / EXCHANGE / DEMAND DATA IN MU

CONSTITUENTS	Okt.21	Nov.21	Dez.21
BURLA	116.118	45.484	34.884
CHIPLIMA	40.471	27.119	24.001
BALIMELA	116.915	81.983	88.986
RENGALI	116.618	56.566	38.027
U.KOLAB	59.286	6.188	6.655
INDRAVATI	193.293	40.254	0.808
O.H.P.C	***642.700***	***257.593***	***193.362***
MACHHAKUND(O/D)	25.431	24.510	27.257
TOTAL STATE HYDRO	***668.131***	***282.103***	***220.619***
IB.T.P.S	241.317	243.573	253.865
OPGC (UNIT3)	499.507	507.662	506.981
OPGC(UNIT 3 UI)	1.341	-2.271	0.000
IPP-GMR	182.620	167.806	142.898
GMR(UI)	0.000	-1.074	0.000
IPP-Vedanta Ltd	240.483	217.442	289.344
IPP-JITPL			0.000
TOTAL THERMAL	***1165.268***	***1133.138***	***1193.088***
IMFA	0.689	1.187	1.413
NALCO	0.000	0.000	0.000
OTHER CGPs	42.855	26.197	49.100
TOTAL-CPPs	***43.544***	***27.383***	***50.513***
Meenakshi	21.814	12.125	5.294
Samal HEP	12.350	9.701	8.365
M/S BPPPL	18.560	8.178	4.711
Ms APPPL	2.634	2.228	1.090
Total Small Hydro	***55.359***	***32.233***	***19.460***
Solar Power under RPSSGP Scheme	0.729	0.594	0.617
Alex Green Energy	0.700	0.550	0.519
ACME Solar	4.010	3.335	3.205
SECI (VGF Scheme Ph-II,Batch-I-GEDCOL)	1.989	1.936	1.839
SECI (VGF Scheme Ph-II,Batch-IV)	29.076	25.372	25.966
Aditya Birla Pvt. Ltd.-1	4.348	3.657	3.548
Aditya Birla Pvt. Ltd.-2	4.332	3.413	3.200
Aditya Birla Pvt. Ltd.-3	4.420	3.795	3.584
Total State Solar	***49.604***	***42.651***	***42.477***
Biomass-SGEL	6.081	8.123	8.876
Total Odisha	***1987.987***	***1525.631***	***1535.033***
SECI (VGF Scheme Ph-II,Batch-I-Rajasthan &	9.710	8.333	1.427
Dadri Solar Bundle Power	0.704	0.606	0.498
Faridabad Solar Bundle Power	0.622	0.622	0.410
NVVNL Bundle Power(Solar) (Including OA Cha	2.214	2.142	1.826
SECI(Azure Power Pvt. Ltd.)	65.869	58.313	61.084
Total Central Solar	***79.119***	***70.016***	***65.245***
PTC-Ostro	8.138	8.657	12.433
SECI-Green Infra	15.312	16.617	22.937
Vivid Solire	13.246	14.130	5.949
Renew Wind Energy	6.708	7.958	10.270
Adani Wind Energy	6.473	5.599	9.561
Total Central Wind	***49.876***	***52.962***	***61.150***
TOTAL Central Thermal	***874.250***	***937.189***	***587.007***
TOTAL Central Hydro	***147.715***	***103.952***	***38.392***
Central Sector Overdrawal	***33.310***	***23.900***	***37.080***
EREB IMPORT	1184.270	1188.019	788.875
EREB EXPORT	22.440	38.840	35.320
NET EREB	***1161.830***	***1149.179***	***753.555***
Banking Power(Import)	0.000	0.000	0.000
TRADING(PXIL+IEX+Bilateral) (Import)	10.197	0.076	111.472
Banking Power(Export)	0.000	85.020	87.854
TRADING(PXIL+IEX+Bilateral) (Export)	608.298	533.448	361.912
OTHER SALE(Including Nalco+Imfa)	14.080	5.520	12.850
SYSTEM DEMAND	**2537.636**	**2050.899**	**1937.444**

* Monthly Pool Account is yet to be finalised.

GRIDCO DRAWAL FROM DIFFERENT SOURCES FOR THE PERIOD (Oct'22-Dec'22)

Sl. No	Source of Power	Drawal in MU	Total Cost in Crore(Rs.)	Avg. Cost in P/U
1	**TOTAL HYDRO**	1170.853	121.974	104.18
2	**OPGC**	2251.975	688.090	305.55
3	**TTPS**			
4	**ISGS**	3064.565	1158.967	378.18
5	**CPPs**	121.440	0.000	0.00
6	**IPPs**	1239.518	344.702	278.09
7	**Non-conventional(State)**	264.864	120.336	454.33
	TOTAL	**8113.215**	**2434.068**	**300.01**

TRADING+IEX+Banking Power+OA+	1587.237
Net Purchase	**6525.979**

FIGURES ARE PROVISIONAL & SUBJECTED TO CHANGE.

NOTE: Total Cost of TTPS includes cost against year end adjustment as reported by GRIDCO Ltd.

CAPACITY ADDITION OF GRID SUB-STATIONS

SI. NO.	NAME OF THE SUB-STATION	CAPACITY AS ON 30.12.21 IN MVA	PROGRESSIVE IN MVA	CAPACITY ADDITION (MVA)	DATE	REMARKS
1	G.Udayagiri	-	1 x 20	20	01.10.21	20MVA Power Transformer-I charged and loaded.
2	OMC Daitari	-	1 x 12.5	12.5	01.11.21	132/33kV 12.5MVA Power Transformer-I charged at 14:34 hrs and loade at 17:00 hrs.
3	Nabarangpur	-	1 x 20	20	29.12.21	132/33kV 20MVA Power Transformer-I idle charged at 19:12 hrs.

Format-D.5

MAJOR FAILURES OF TRANSFORMERS & EQUIPMENTS IN GRID SUB-STATIONS

CIRCLE	DATE	GRID S/S	TRANSFORMER	BREAKER	CT & PT	LIGHTNING ARRESTER	MISC. (Isolator/ Wave Trap etc.)	REMARKS
Berhampur	10.10.21	Aska	-	-	-	Y-ph LA of 132KV Bhanjanagar-Aska Ckt-2 Burst	-	-
	23.11.21	Bhanjanagar	-	-	B-ph CT of 132kV Bhanajanagar-Aska Ckt.-I Burst at Aska End	-	-	-
Bhubaneswar	-	-	-	-	-	-	-	-
Burla	26.12.21	Lapanga	-	-	132 kV R-ph CT bursted of power TRF-II at Lapanga GSS	-	-	-
	07.12.21	Chiplima	-	-	Y-ph CT of 132kV Chipilima-Katapali ckt-II puncture	-	-	-
Bolangir	28.12.21	Barkote	-	-	-	B ph LA of 220 kV Barkote-Deogarh feeder burst inside Deogarh Grid S/s	-	-
Chainpal	07.12.21	Karanjia	-	-	-	R-ph LA of 132kV Karanjia-Rairangpur burst	-	-
Cuttack	-	-	-	-	-	-	-	-
Balasore	08.10.21	Basta	-	-	-	-	34 KV R-PH VCB LIMB of 132 KV Basta-Jaleswar Feeder burst at Basta	-
	30.10.21	Balasore	-	-	-	B-Ph LA of 132KV M/S Emami Feeder burst at Somanathpur Grid end	-	-
	29.11.21	Balasore	-	-	-	132kV R-Ph LA of Auto-2 punctured.	-	-
	04.12.21	Duburi New	-	-	-	R-ph LA burst during first time charging at Maithan end	-	-
	24.12.21	Agarpada	-	-	-	132 KV Y-Phase LA of 132 KV Agarpada-Anandapur Line Punctured	-	-
Jeypore	-	-	-	-	-	-	-	-