

Odisha Power Transmission Corporation Ltd.
Bhubaneswar.



Agenda
for
132nd Power System Operational Co-ordination Meeting

Date: 19.04.2019

Venue: Power Training Center, Chandaka, Bhubaneswar

**Agenda for 132nd PSOC Meeting to be held on 19.04.2019 at OPTCL Power Training Center,
Chandaka, Bhubaneswar**

A. Confirmation of the minutes of the 131st PSOC Meeting held on 29.03.2019

The minutes of meeting was circulated vide letter No. SGM (PS)-PI-15/2019/998 ⁽⁴⁸⁾ dated 05.04.2019 to all the members and also uploaded in the SLDC website. Members may offer their comments. If there are no comments, the minutes of the meeting may please be confirmed.

PART A

(List of items to be discussed for which the details are given in the subsequent parts)

- B : Grid Performance for the month of March'2019
- C.1: Status of projects funded under PSDF scheme
- C.2: Mapping of Feeders of Automatic Under Frequency Load Shedding (AUFLS) Scheme
- C.3: Coal requirement for thermal power plants –MoP
- C.4: Removal of Vedanta Towers (5 nos) for direct connectivity on permanent basis of 400kV Sundargarh-Raigarh ckt#4 and 400kV Sundargarh-Raigarh ckt#2--Powergrid
- C.5: Implementation of Automatic Generation Control (AGC) in India (at Inter-State level)
- C.6: Information regarding details of existing transmission system (220 kV and above AC & DC voltage level) in Eastern Region as on 31.12.2018
- C.7: Review of the PSS Tuning of Generators in Eastern Region
- C.8: Bypassing arrangement of LILO of 400kV Lines at Angul
- C.9: Updated Black Start and Restoration procedure of State—ERLDC As per clause IEGC 5.8(b)
- C.10: Periodical Audit and Vulnerability Assessment & Penetration Testing (VPAT) of ICT Infrastructure--CEA
- C.11: Details of Capacitor bank installed in Distribution/Sub transmission network --ERLDC
- C.12: Collection of modeling data from Renewable as well as conventional energy generators: ERLDC
- C.13: Implementation of Automatic Demand Management Scheme
- C.14: 220 kV Inter-connecting lines of OPTCL with 400/220 kV Bolangir(PG), Keonjhar & Pandiabil S/s
- C.15: Update on status of telemetry
- C.16: Mock Black start exercises in Eastern Region
- C.17: Submission of Thermal Loading of Transmission line and associated terminal equipment by ISTS licensee
- C.18: Certification through BIS as per IS 18001:2007 to all generating/ transmission units.
- D.1: Non-compliance of drawal schedule by DISCOMs
- D.2: Communication issues.
- D.3: Data communication from newly commissioned RE sources connected at 132 kV- SLDC.
- D.4: Implementation of Automatic Meter Reading for OPTCL-Discom interface points.
- D.5: Colony consumption of POWERFRID S/Ss
- E.1: Commissioning status of New Transmission elements.
- E.2: Major Events in the month of March'19
- E.3: Important grid incidences during the month of March'19.
- E.4: Outage of major transmission Elements during the month March'19. (above 10 hrs).
- E.5: Review of Outage Program of State Generators for the month of May'2019
- E.6: Generation Program for the month of May'2019.
- E.7: Anticipated power generation and demand for the month of May'2019.
- F.1: Date and Venue of the next (133rd) PSOC meeting

PART B: GRID PERFORMANCE

B. Review of Grid Performance for the month of March'19.

A. Frequency:

Hourly frequency variation for the month of March'19.

Month	% of time frequency remained					Average
	<49.00	49.00-49.70	49.70-49.90	49.90-50.05	>50.05	
Jan'19	0.00	0.06	10.24	69.48	20.23	49.98
Feb'19	0.00	0.00	5.91	67.23	26.87	49.99
Mar'19	0.00	0.02	8.31	70.28	21.39	49.99

Maximum & Minimum frequency during the month of Feb'19 & Mar'19.

Month	Freq (Hz)	Date	Time
Feb'19	Maximum -50.16	11.02.19	03:15 Hrs
	Minimum - 49.75	21.02.19	00:45 Hrs
Mar'19	Maximum -50.21	01.03.19	04:30 Hrs
	Minimum - 49.71	11.03.19	14:15 Hrs

Grid Demand up to the month of March'19

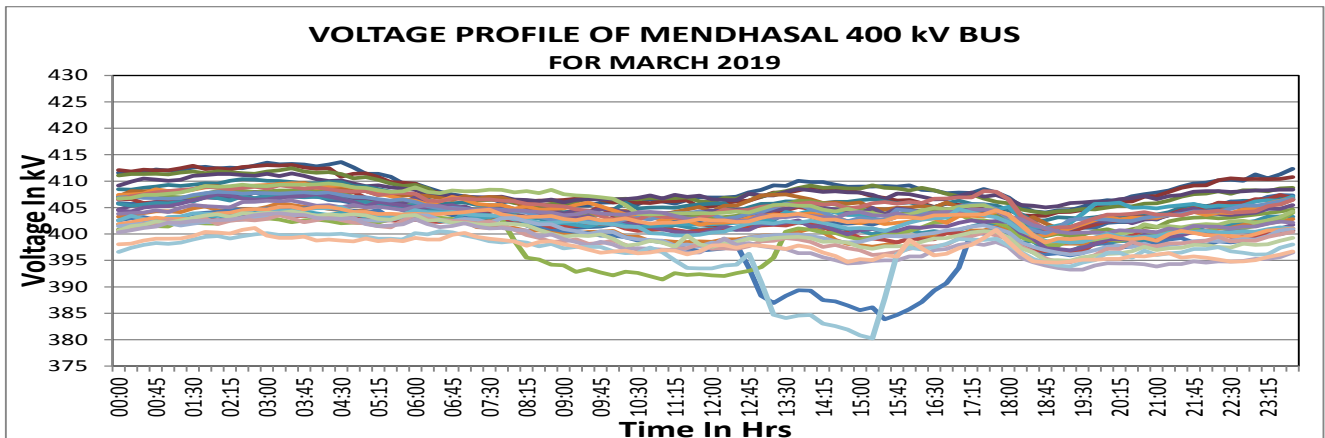
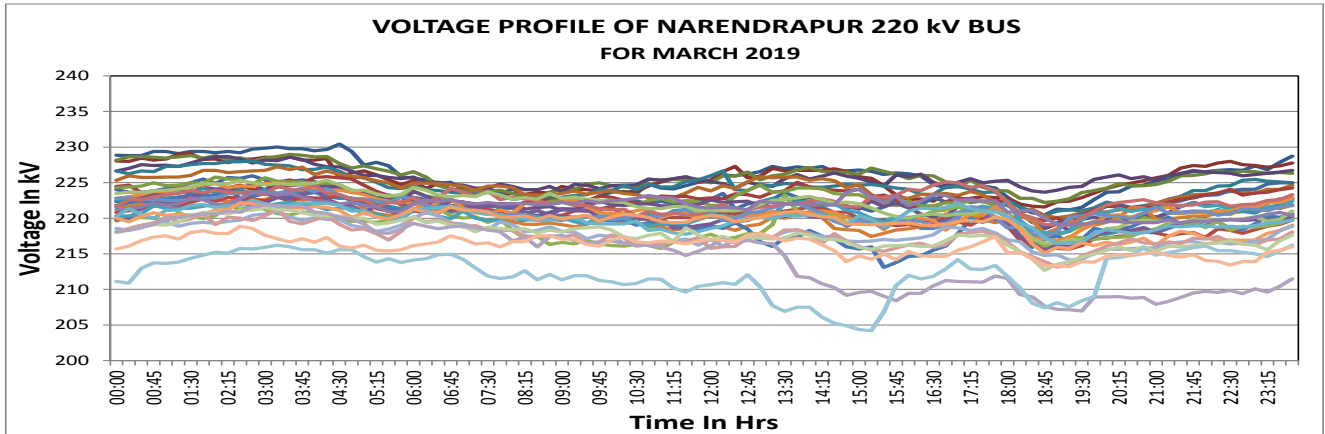
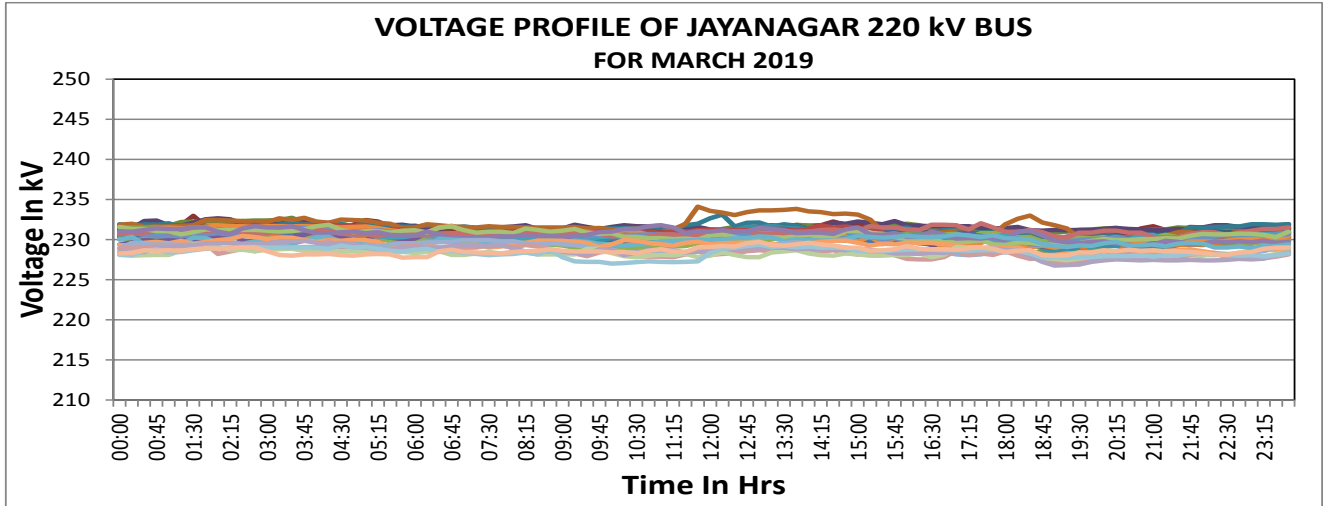
Month	Max. Consumption		Demand		Maximum Demand			Minimum Demand		
	MU	Date	MU	Avg. (MW)	MW	Date	Time	MW	Date	Time
Apr'18	92.65	23.04.18	2400	3334	4430	22.04.18	21:00	2348	01.04.18	24:00
May'18	98.61	24.05.18	2735	3798	4692	07.05.18	21:00	2113	14.05.18	12:00
June'18	98.45	01.06.18	2497	3455	4729	01.06.18	02:00	2173	29.06.18	14:00
July'18	94.27	29.07.18	2572	3457	4498	28.07.18	22:00	2010	16.07.18	13:00
Aug'18	114.57	24.08.18	3165	4254	5428	23.08.18	21:00	3313	28.08.18	14:00
Sept'18	108.58	30.09.18	2857	3968	4973	30.09.18	21:00	2881	21.09.18	05:00
Oct'18	116.85	05.10.18	3147	4230	5270	02.10.18	19:00	3033	12.10.18	07:00
Nov'18	92.71	06.11.18	2615	3632	4522	08.11.18	19:00	2959	26.11.18	03:00
Dec'18	81.98	01.12.18	2188	2941	4038	01.12.18	19:00	1698	18.12.18	03:00
Jan'19	83.50	26.01.19	2303	3095	4199	29.01.19	20:00	2246	02.01.19	03:00
Feb'19	83.61	14.02.19	2113	3144	4223	14.02.19	20:00	2142	16.02.19	5:00
Mar'19	98.41	27.03.19	2624	3526	4643	27.03.19	20:00	2634	18.03.19	4:00
Mar'18	94.20	29.03.18	2595	3487	4515	29.03.18	20:00	2606	02.03.18	15:00

B. Voltage Profile of 220 kV Buses in OPTCL system for the month of: March'19

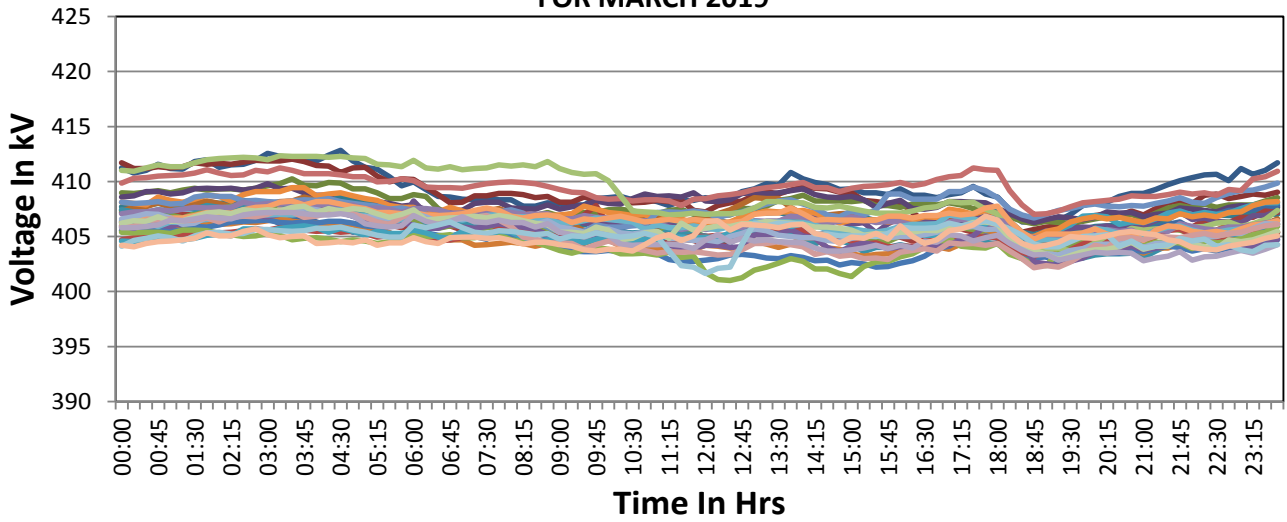
Sl. No	S/s Name	Maximum			Minimum		
		kV	Day	Time	kV	Day	Time
1	Atri	229.84	1	4:30	207.96	29	17:00
2	Balasore	229.78	17	19:45	209.51	30	14:30
3	Barkote	229.95	21	3:30	225.04	28	19:15
4	Bargarh	228.62	18	3:00	214.25	30	6:15
5	Bhadrak	227.64	5	15:15	204.03	31	14:45
6	Bhanjanagar	232.55	31	21:15	216.44	29	15:15
7	Bidanasi	233.13	11	4:00	221.70	16	14:15
8	Bolangir	228.05	18	3:00	211.82	31	6:45
9	Budhipadar	231.34	17	15:15	225.39	13	10:15
10	Chandaka	231.74	31	21:15	207.84	29	15:15
11	Cuttack	230.18	31	21:15	206.28	29	15:15
12	Duburi(O)	231.57	1	4:15	218.87	30	22:30
13	Duburi (N)	230.18	1	4:15	217.25	30	22:30
14	Jayanagar	234.11	6	11:45	226.78	28	19:00
15	Joda	231.28	17	17:45	208.82	26	21:00
16	Katapalli	227.58	18	3:00	215.98	17	15:00

17	Lapanga	230.64	18	3:15	215.46	27	12:45
18	Laxmipur	233.76	5	12:15	224.64	28	19:00
19	Mendhasal	232.43	31	21:15	209.46	29	15:15
20	Meramundali	226.66	21	6:00	219.91	19	18:45
21	Narendrapur	230.82	31	19:30	204.20	29	15:15
22	Nayagarh	231.57	31	21:15	211.13	29	15:15
23	Paradeep	232.72	1	16:30	206.97	28	21:00
24	Tarkera	229.25	22	14:00	223.76	11	19:15
25	Theruvalli	230.88	5	12:15	217.65	28	23:00
26	Samangara	229.43	1	4:0	207.78	29	15:15

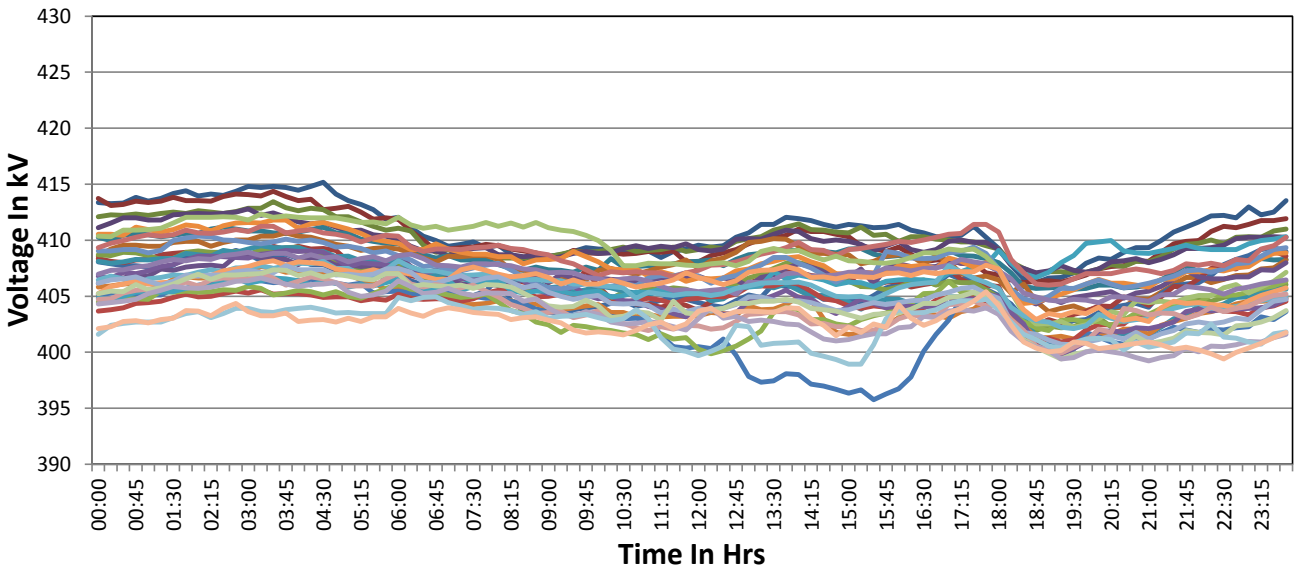
The maximum Voltage of **234.11 kV** occurred at **Jayanagar** 220 kV bus, while **Bhadrak** 220 kV bus has experienced the minimum Voltage of **204.03 kV**. The 220 kV Voltage profile of Jayanagar and Narendrapur and 400 kV Voltage profile of Mendhasal, Meramundali and New Duburi bus during the month of **March'2019** are indicated.



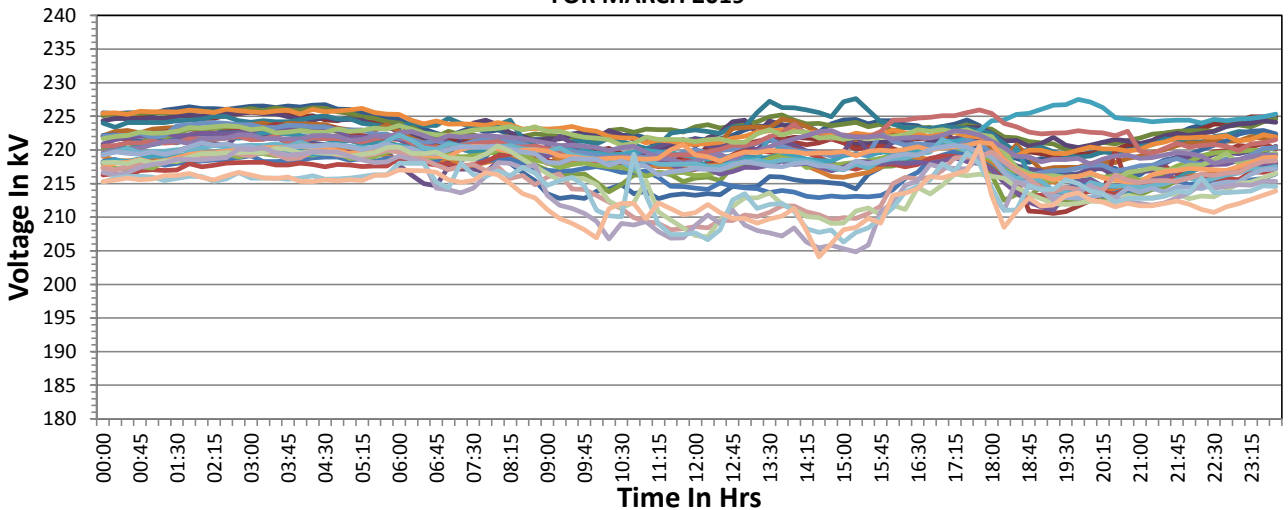
**VOLTAGE PROFILE OF MERAMUNDALI 400 kV BUS
FOR MARCH 2019**



**VOLTAGE PROFILE OF NEW DUBURI 400 kV BUS
FOR MARCH 2019**



**VOLTAGE PROFILE OF BHADRAK 220 kV BUS
FOR MARCH 2019**



Members may discuss.

C. Loading of 220/ 132 kV Auto at 220 kV S/Ss in OPTCL system for the month of March – 2019.

AUTO TRANSFORMER LOADING FOR THE MONTH OF							MARCH'2019		
Name of the 220 kV Sub-Station (Feeding Sub-stations/Feeders)	Capacity MVA	Drawal details						REMARKS	
		Maximum			Minimum				
		MW	Day	Time	MW	Day	Time		
ATRI {Banki, Khurda, Chandpur & Argul}	2x160	34.64	31	12:15	3.32	31	21:15		
		34.64	31	12:15	3.24	31	21:15		
BALASORE 220/132 KV { Balasore, Birla Tyre(I), Ispat Alloy(I), Jaleswar, Jaleswar(T)}	3x160	97.96	23	12:15	8.24	7	08:00		
		97.24	21	10:30	10.52	7	08:00		
		99.72	23	11:15	7.68	7	07:15		
BARGARH 220/132 kV	1x100	13.72	22	10:30	4.76	21	06:00		
	1x160	18.16	28	11:45	2.36	21	02:00		
BHADRAK 220/132 KV {Bargarh, Ghensh}	1x100	Under idle charge condition							
	1x160	65.00	8	19:00	4.44	17	19:00		
	1x160	92.92	2	18:15	4.64	17	19:00		
BHANJANAGAR 220/132 KV { Bhanjanagar, Aska, Phulbani, Ganjam, Chatrapur}	1x160	71.16	30	18:45	4.96	31	19:15		
	1x160	62.80	30	18:45	4.00	31	19:15		
BIDANASI 220/132 KV {Bidanasi, Khurda }	1x100	31.68	13	11:30	3.52	6	09:00		
	1x100	34.80	6	18:15	3.84	9	16:00		
	1x160	49.52	6	18:15	4.56	10	17:15		
BOLANGIR (SADAIPALLI) 220/132 KV { Bolangir, Patnagarh, Sonepur, Saintala, Khaniar, Barpalli }	2x160	133.36	29	18:45	16.68	18	03:00		
		139.76	29	18:45	17.52	18	03:00		
BUDHIPADAR 220/132 KV { Jharsuguda, Jharsuguda Tr, Cemco(I), MCL, Sundergarh, Brajarajnaragar, Rajgangpur}	2x160	103.64	30	11:15	49.44	15	19:30		
		87.52	17	19:45	37.80	30	11:15		
CHANDAKA 220/132 KV { Chandaka, Bhubaneswar, Nimapada, Ransinghpur, Puri, Kesura, Kaipadar Tr. }	1x100	65.52	29	15:00	6.68	31	21:15		
	1x160	113.04	29	15:00	11.60	31	21:15		
	1x100	70.44	29	15:00	7.00	31	21:15		
	1x160	105.04	30	15:00	10.88	31	21:15		
CUTTACK	1x160	64.04	1	08:30	6.52	16	08:30		
	1x100	38.44	1	08:30	4.88	31	21:30		
DUBURI 220/132 KV {Duburi, Bamnipal(I), BRPL, MESCO, Jajpur Road, Kalarangi, Jajpur Town}	1x160	96.20	26	21:15	23.00	5	14:45		
	1x100	61.08	26	21:15	14.36	5	14:45		
	1x100	58.20	26	21:15	13.68	5	14:45		
JAYANAGAR 220/132 KV. {Damanjodi(NALCO), Traction S/Ss, Tentulikhunti, Sunabeda, Jayanagar}	1x160	89.92	23	19:00	36.60	3	16:00		
	1x160	90.36	23	19:00	36.84	3	16:00		
JODA 220/132 KV { Joda, Tensa, FAP(I), Bolani(I), Nalda Tr., Polasponga, *Rairangpur, Bhalulata traction}	3x100	65.44	7	18:15	18.88	17	17:45	*** - Alternate P/S from Kuche.	
		54.36	23	19:45	17.80	8	13:15		
		67.20	7	18:15	18.64	8	13:15		
KATAPALI 220/132 KV {Chipilima, Bargarh, ACC, Sonepur & Katapali area load.}	1x100	39.92	12	11:30	2.68	22	19:30	Supported by Burla & Chipilima power.	
	1x100	39.88	12	11:30	2.36	31	19:30		
	1x160	14.96	11	11:30	2.92	29	21:00		
LAPANGA {Kuchinda, Aryan Viraj, Shyam Metallics}	2x160	74.28	5	11:00	14.56	17	16:30		
		73.64	6	17:00	8.28	5	11:00		
MERAMUNDALI 220/132 kv {Meramundali Traction, Dhenkanal, Navchrome(I), Hind Metal, Aarti, BRG}	3x100	40.08	16	14:00	6.52	12	17:00		
		39.20	16	14:00	6.56	12	17:00		
		38.32	16	14:00	5.84	12	17:00		
Mendhasal { Part area load of Khurda S/S}	2x100	20.40	27	07:15	6.00	30	12:00		
		32.40	26	05:15	3.00	31	12:00		
NARENDRAPUR 220/132KV { Narendrapur, NarendrapurTr, Berhampur, Chhatrapur, Ganjam, Balugaon, Digapahandi, Mohana.}	2x160	98.36	25	18:45	36.08	31	18:00		
		118.04	8	16:00	36.24	31	18:00		
	1x100	67.96	8	16:00	20.40	31	18:00		
PARDEEP 220/132 KV { Paradeep, Kendrapada, Pattamundai, Chandikhol, Cuttack, Jagatsinghpur, Phulnakhara}	1x160	135.46	25	20:30	9.68	26	20:45		
	1x100	82.76	30	21:15	4.68	7	18:15		
	1x50								
TARKERA 220/132 KV { Rourkela, Rourkela Tr., RSP(I), Chhend, Adhunik Metal, Rajgangpur, OCL(I), Rajgangpur Tr.}	4x100	58.56	13	09:30	6.28	15	18:45		
		59.84	13	09:30	6.96	15	18:45		
		58.64	13	09:30	6.36	15	18:45		
		58.28	13	09:30	6.96	15	18:45		
THERUVALLI 220/132 KV. {Theruvalli, IMFAL(I), JK(I), Junagarh, Kesinga, Powmex(I), Rayagada, }	2x100	49.96	27	20:30	13.60	25	13:30	Rayagada & Paralakhemundi can be fed from Machkund system.	
		47.52	27	20:30	13.48	25	13:30		
	1x160	77.36	27	20:30	21.24	25	13:30		
TTPS 220/132 KV { Chainpal, FCI (I), Angul, MCL Nandira(I), Rairakhole, Boinda, Kamakhyanagar, Kalarangi, Nuapatna, Choudwar }	1x160	82.33	17	18:15	13.21	5	19:15		
	1x160	82.33	17	18:15	13.21	5	19:15		
SAMANGARA { Puri, Nimapara & Konark}	2x160	55.28	14	21:30	3.88	31	21:15		
		55.36	14	21:30	3.88	31	21:15		

D. DISCOM Drawal up to the month of March'19

Name of DISCOM	Month	Approved Energy Drawal Prorated for the month (MU)	Scheduled Energy (MU)	Actual Energy Drawal (MU)	Open Access Import Schedule (MU)	Net Energy Drawal (MU)	Overdraw (MU)
		1	2	3	4	5=(3-4)	6=(5-2)
CESU	Apr'18	745.479	734.495	770.403	19.655	750.748	16.253
	May'18	770.329	819.87	850.674	20.004	830.67	10.8
	June'18	745.48	836.254	848.445	14.721	833.724	-2.53
	July'18	770.329	805.001	823.135	16.707	806.428	1.427
	Aug'18	770.329	825.849	833.67	17.428	816.242	-9.607
	Sept'18	745.48	741.752	784.029	5.113	778.916	37.164
	Oct'18	770.329	728.178	783.342	9.693	773.649	45.471
	Nov'18	745.48	608.066	665.861	14.026	651.835	43.769
	Dec'18	770.329	582.852	600.916	14.372	586.544	3.692
	Jan'19	770.329	579.57	614.936	18.955	595.981	16.411
	Feb'19	695.781	576.292	595.547	12.531	583.016	6.724
	Mar'19	770.329	701.488	792.581	18.797	773.784	72.296
WESCO	Apr'18	585.205	636.576	689.137	57.318	631.819	-4.757
	May'18	604.712	636.024	1042.2	362.004	680.194	44.17
	June'18	585.205	640.766	995.128	359.629	635.499	-5.267
	July'18	604.712	612.348	767.095	160.722	606.373	-5.975
	Aug'18	604.712	586.549	1,152.89	561.626	591.265	4.716
	Sept'18	585.205	606.175	976.932	365.889	611.043	4.868
	Oct'18	604.712	676.465	1,293.38	600.136	693.24	16.77
	Nov'18	585.205	547.993	965.032	350.615	614.417	66.424
	Dec'18	604.712	568.413	686.294	114.336	571.958	3.545
	Jan'19	604.712	612.473	752.559	142.416	610.143	-2.33
	Feb'19	546.192	581.849	637.069	92.692	544.377	-37.472
	Mar'19	604.712	640.894	798.066	148.42	649.646	8.752
NESCO	Apr'18	504.658	418.945	528.936	105.079	423.857	4.912
	May'18	521.48	480.187	576.819	102.344	474.475	-5.712
	June'18	504.658	488.448	598.361	113.554	484.807	-3.641
	July'18	521.48	481.593	581.864	95.907	485.957	4.364
	Aug'18	521.48	494.386	644.557	138.545	506.012	11.626
	Sept'18	504.658	467.35	575.488	99.903	475.585	8.235
	Oct'18	521.48	494.564	594.427	108.007	486.42	-8.144
	Nov'18	504.658	403.449	536.939	101.478	435.461	32.012
	Dec'18	521.48	412.703	528.254	91.205	437.049	24.346
	Jan'19	521.48	458.171	549.538	97.082	452.456	-5.715
	Feb'19	471.014	428.836	511.223	92.599	418.624	-10.212
	Mar'19	521.48	454.091	590.276	104.986	485.29	31.199
SOUTHCO	Apr'18	300.822	298.76	298.778	0	298.778	0.018
	May'18	310.849	321.453	323.114	0	323.114	1.661
	June'18	300.822	316.746	315.514	0.57	314.944	-1.802
	July'18	310.849	316.309	313.076	0.574	312.502	-3.807
	Aug'18	310.849	322.184	322.519	0	322.519	0.235
	Sept'18	300.822	302.037	309.512	0	309.512	7.475
	Oct'18	310.849	295.91	298.996	0	298.996	3.086
	Nov'18	300.822	248.651	292.634	0	292.634	43.983
	Dec'18	310.849	255.345	276.639	0	276.639	21.294
	Jan'19	310.849	276.311	292.5	0.39	292.11	15.799
	Feb'19	280.767	264.509	276.747	0.205	276.542	12.033
	Mar'19	310.849	299.643	338.579	0	338.579	38.936

The figures are as per EBC data. Energy drawal by SOUTHCO are excluding of energy consumed by NALCO at Damanjodi and IMFA at Theruvali.

Members may please discuss.

E. Energy Generation / Import up to the month of March'19

Figures in MU

Month	Thermal (TTPS+IBTPS)	OHPC & MKD	CGP Support	IPP Inj.	RE	ISGS	Total
April'18	535.100	421.700	362.530	198.950	9.690	872.260	2400.230
May'18	567.940	573.520	313.169	199.230	14.390	1066.640	2734.889
June'18	485.813	481.601	219.983	203.230	11.897	1084.870	2487.394
July'18	440.179	421.582	213.953	193.928	10.102	1292.141	2571.885
Aug'18	473.390	689.310	163.300	202.940	13.680	1621.990	3164.610
Sept'18	454.183	1037.515	203.086	136.688	13.196	1012.434	2857.102
Oct'18	483.538	927.724	227.618	191.329	13.269	1303.948	3147.426
Nov'18	500.555	406.963	242.821	255.937	12.645	1196.275	2615.196
Dec'18	554.605	322.626	266.526	179.021	16.591	852.921	2192.290
Jan'19	514.055	334.421	334.652	280.205	12.646	826.993	2302.972
Feb'19	485.768	356.056	226.254	314.636	11.201	719.249	2112.786
Mar'19	533.109	501.690	272.532	240.769	12.689	1063.458	2624.247
Total	6028.235	6474.708	3046.424	2596.863	151.996	12913.179	31211.027

F. Drawal of Machhakund Power

The drawal of Machhakund power up to the month of **March'19** are as detailed:

Month	Total Generation		Odisha Drawl		AP Drawl	
	MU	Avg (MW)	MU	Avg (MW)	MU	Avg (MW)
Apr'18	37.162	51.610	18.613	25.851	16.943	25.532
May'18	48.888	65.700	22.424	30.140	24.492	32.919
June'18	43.185	59.980	19.692	27.350	21.635	30.048
July'18	45.146	60.680	20.894	28.083	22.148	29.769
Aug'18	51.319	68.977	23.507	31.595	25.708	34.554
Sept'18	45.449	63.123	20.039	27.032	23.324	32.394
Oct'18	50.184	69.700	22.268	30.927	25.721	35.726
Nov'18	49.688	69.011	21.964	30.506	25.621	35.585
Dec'18	52.772	70.930	24.878	33.438	25.653	34.479
Jan'19	59.629	80.146	28.179	37.875	29.257	39.323
Feb'19	56.272	83.738	26.209	39.001	28.068	41.768
Mar'19	53.931	72.488	26.716	35.909	25.213	33.888
Total	593.625	67.765	275.383	31.436	293.783	33.537

Drawal of State share power from Machhakund has decreased by 18.4 MU for the current Financial Year. Southco may add more feeders to Podagada S/s.

SOUTHCO may deliberate.

G. Under Frequency Relay operation in OPTCL System during the month of Mar'19.

Since, the frequency had never gone beyond the lowest setting of UFR, there was no UF Relay operation occurred during the month of **Mar'19**.

H. Status of Open Access applications up to the month of March'2019

The status of different types of Open Access applications received and disposed by SLDC is as tabled.

Sl. No	Month	No of Applications received					No of Applications Disposed					No of App. Rejected
		Intra-State	Inter-State		Total	Intra-State	Inter-State		Total			
			Bilateral				PXI	Bilateral		PXI		
			ST	MT/LT				ST			MT/LT	
1	April'18	26	80	0	32	138	26	80	0	32	138	0
2	May'18	59	89	0	26	174	58	89	0	25	172	2
3	June'18	14	57	0	30	101	14	57	0	27	98	3
4	July'18	18	145	0	26	189	18	145	0	26	189	0
5	Aug'18	24	90	0	37	151	24	90	0	36	150	1
6	Sept'18	25	96	0	29	150	25	96	0	29	150	0
7	Oct'18	48	61	0	28	137	48	61	0	28	137	0
8	Nov'18	38	95	0	34	167	38	95	0	33	166	1
9	Dec'18	37	68	0	27	132	36	67	0	27	130	2
10	Jan'19	61	98	0	27	186	43	98	0	27	168	18
11	Feb'19	9	58	0	32	99	9	58	0	32	99	0
12	Mar'19	29	56	0	22	107	26	56	0	22	104	3
	Total	388	993	0	350	1731	365	992	0	344	1701	30

PART C – Issues discussed in the 155th OCC meeting of ERPC held on 25.03.2019

C.1: Status of projects funded under PSDF schemes

In the PSDF review meeting, it was advised to RPCs to monitor the status of all the projects funded by PSDF. Therefore, constituents are requested to update the status of projects which are being funded by PSDF in the desired format.

The latest status as updated by OPTCL / OHPC is as given below:

Sl No	Name of Constituent	Name of Project	Date of approval from PSDF	Target Date of Completion	PSDF grant Approved (in Rs.)	Amount Drawn till date (in Rs.)	Status as updated in 129 th meeting
4	OPTCL	Renovation & Up-gradation of protection and control systems of Sub-stations in the State of Odisha in order to rectify protection related deficiencies.	11.05.15	31.03.19	162.5 Cr. Total expenditure may not exceed Rs. 68 Crs.	38.09 Cr. Received Rs. 8.00 Cr on 28.03.19	<i>90% equipment installed and commissioned. Stn Tfr and some measuring instruments are under tendering process.</i>
7		Implementation of OPGW based reliable communication at 132kV and above substations	15.11.2017		51.22 Cr	Request for 10% grant already submitted. Agreement signed	Order placed
13	OHPC	Renovation & up-gradation of protection & control system of 4 nos. OHPC sub-stations		U.Kolab-March 19 Balimela-Feb 2019 U.Indravati-Jan 19 Burla-Nov18 Chiplima Dec 2018	22.35 Cr.	2.235 Cr	<i>Placed work order for Balimela. PO for other units amounting Rs. 2 Crs placed. Tendering for Rs 7 Cr under finalization.</i>

Projects under process of approval:

	OPTCL	Installation of 125 MVAR Bus Reactor along with construction of associated bay each at 400kV Grid S/S of Mendhasal, Meramundali & New Duburi for VAR control & stabilisation of system voltage	27-07-18		31.94 Cr Ested. Cost. Approve d amount 30.26 Cr. Grant amount 27.23 Cr.	27.23 Cr. 10% fundin g will be asked.	Agreement signed and sent to NLDC for signature. Tender is under evaluation. Bank mandate submitted.
Projects recently submitted:							
	OPTCL	Implementation of Automatic Demand Management System (ADMS) in SLDC, Odisha	22-12-17 Date of submission		3.26 Cr Estt cost. 2.93 Cr recomme nded by Appraisal committee.		Approved by Appraisal committee. Forwarded to CERC for concurrence.
	OPTCL	Protection up gradation and installation of SAS for seven numbers of 220/132/33kV Grid substations (Balasore, Bidanasi, Budhipadar, Katapalli, Narendrapur, New-Bolangir & Paradeep).	12.03.2018 Date of submission		41.1 Cr Estt cost		Compliance to TSEG observation submitted. Audit observation has been sent to NLDC.

CGM (O&M) / OHPC/ SLDC may update the status

C.2: Mapping of Feeders of Automatic Under Frequency Load Shedding (AUFLS) Scheme

In 8th NPC held on 30th November 2018, it was decided that each RPC would submit the details / progress of feeder mapping to NPC secretariat on a regular basis (quarterly).

In 154th OCC, DVC informed that mapping of the UFR feeders had already been implemented in DVC system.

In 40th TCC, Bihar and Jharkhand have confirmed that mapping of the UFR feeders has been implemented.

West Bengal informed that out of 18 S/s only 6 S/s data are available at SLDC. For the remaining 12 S/s the RTUs are old and needed replacement. WBSETCL added that they have already placed a proposal for PSDF funding.

OPTCL informed that out of 58 feeders only 14 feeders data are available at SLDC. For mapping of the remaining feeders, the RTUs needed to be replaced as they were old. OPTCL added that replacement of old RTUs is in advance stage and it would be implemented within a year.

In the 131st PSOC meeting DGM (Telecom) stated that tender for procurement of RTU is under pre-bid stage. He also added that data for more number of feeders can be made available to SLDC from the existing RTUs.

CGM (O&M) / Sr. G.M (Telecom) may deliberate

C.3: Coal requirement for thermal power plants –MoP

MoP vide letter dated 7th February 2019 informed that, it has been decided that in view of expected increased power demand in the next few months up to monsoons, all power plants be advised to be watchful, and do maintain plant availability and adequate coal stocks as per norms, in this period.

All the thermal plants are advised to take effective steps for immediate implementation of the decision. The action taken report may also be forwarded to the Ministry at the earliest.

In 154th OCC, all the thermal generators were advised to assess the requirement of coal in the coming few months and take the necessary action to build up adequate stock to ensure uninterrupted supply of power.

In 40th TCC, all the thermal generators were advised to inform ERPC Secretariat any hurdle being faced by them in building up the coal stock. If required, a separate meeting would be convened by ERPC Secretariat with the thermal generators, coal companies and the Railways.

In the 131st PSOC meeting it was suggested in the meeting that GMR/ OPGC and Vedanta Ltd may furnish the report to ERPC directly.

GMR / OPGC / Vedanta Ltd. may deliberate

C.4: Removal of Vedanta Towers (5 nos) for direct connectivity on permanent basis of 400kV Sundargarh-Raigarh ckt#4 and 400kV Sundargarh-Raigarh ckt#2--Powergrid

Initially 02 nos LILO was made in 400kV Rourkela-Raigarh ckt-2 and Ckt-4 to evacuate power generation of Sterlite Energy Ltd (Now Vedanta Ltd),Jharsuguda. However, as per directives from ERLDC/ERPC LILO of 400kV Rourkela-Raigarh ckt-2(Now Sundargarh-Raigarh ckt-3) was opened in 2014 and LILO of 400kV Rourkela-Raigarh ckt-4(Now Sundargarh-Raigarh ckt-4) was opened in October 2017.

As a temporary measure to facilitate immediate disconnection of LILO and making the line direct PG clamps were used in Vedanta Towers. In this process 05nos of Vedanta Towers are there in the 400kv Sundargarh-Raigarh ckt-2 and 4. 03nos between Loc 298-299of 400kV Sundargarh-Raigarh ckt-4 and 02nos of Towers between Loc 834-833 of 400kV Sundargarh-Raigarh Ckt3.The sketch showing the Vedanta Towers in both the circuits is enclosed for ready reference.

The matter for removal of Towers and making direct connectivity with Raigarh on permanent basis has been discussed several times with M/s Vedanta. But till date no action has been taken by M/s Vedanta for making the line direct after removal of Towers. Maintenance of the said Towers and corridor are not being done. Any outage of these lines due to issues in these towers and span shall not be attributed to POWERGRID.M/s Vedanta may be asked to restored the line as it was before making the Line LILO.

In the 131st PSOC meeting DGM, Powergrid, Bhubaneswar and Vedanta Ltd deliberated the present status in the meeting. It was decided that POWERGRID and Vedanta Ltd shall discuss the issue mutually and intimate decision to SLDC.

POWERGRID, Bhubaneswar/ Vedanta Ltd. may deliberate

C.5: Implementation of Automatic Generation Control (AGC) in India (at Inter- State level)

CERC in its order dated 13.10.2015 in Petition No. 11/SM/2015 reiterated the need for mandating Primary Reserves as well as enabling Secondary Reserves, through Automatic Generation Control (AGC) as follows:

(a) All generating stations that are regional entities must plan to operationalise AGC along with reliable telemetry and communication by 1st April, 2017. This would entail a one-time expense for the generators to install requisite software and firmware, which could be compensated for Communication infrastructure must be planned by the CTU and developed in parallel, in a cost effective manner.

(b) On the other hand, National/Regional/State Load Dispatch Centres (NLDC/RLDCs/SLDCs) would need technical upgrades as well as operational procedures to be able to send automated signals to these generators. NLDC /RLDCs and SLDCs should plan to be ready with requisite software and procedures by the same date. (c) The Central Commission advises the State

Commissions to issue orders for intra-state generators in line with this timeline as AGC is essential for reliable operation of India's large inter-connected grid.”

The issue was discussed in 8th NPC Meeting held on 30th November 2018, it was decided that each RPC would submit the status of implementation of AGC to NPC.

In 154th OCC, it was informed that ISGS generators at Barh and Teesta V are in the process of implementation of the AGC as a pilot project.

It was informed by Member Secretary, ERPC that, during the deliberation in the 8th NPC meeting on 30.11.2019, it emerged that states in the other regions had already taken initiative for implementation of AGC. ERPC was advised to sensitize this issue in the ERPC forum.

OCC advised Odisha, West Bengal and DVC to identify one generator in their system for implementation of AGC as a pilot project and place the detailed implementation plan in coming TCC Meeting.

In 40th TCC, NTPC informed that AGC at Barh STPS will be implemented by May, 2019.

SLDC Odisha informed that they have written a letter in this regard to OPGC also pointed that regulatory changes need to be framed by SERC before implementation of AGC in the state.

OPGC suggested for implementing the AGC in new units to be commissioned shortly.

DVC confirmed that unit#8 of Mejia TPS has been identified for AGC implementation as a pilot project.

WBPDCI informed that they will submit the details in OCC meeting.

The followings were decided in the TCC Meeting:

1. Status of implementation of AGC shall be regularly monitored in OCC meetings.
2. An workshop shall be organised in ERPC wherein NLDC and NTPC will be invited to interact with the ER constituents regarding the experience they have gained in implementing the AGC in other regions.

In the 131st PSOC meeting OPGC stated that after synchronization of their new unit, they will intimate to ERPC for implementation of AGC. OHPC stated that after attending the workshop they will examine to identify one of their units.

OPGC/OHPC may deliberate the status]

C.6: Information regarding details of existing transmission system (220 kV and above AC & DC voltage level) in Eastern Region as on 31.12.2018

CEA vide letter dated 29/01/2019 intimated that MoP, GoI has desired information regarding details of state wise growth of transmission system (both interstate and intra state system) over the years to create database of existing transmission system.

Accordingly, it is requested that the information in respect of existing transmission system (both interstate and intra state system) as well as State Power Map and single line Diagram of transmission network including Powergrid (ISTS) and other Transmission Service Provider (TSPs) (as on 31.12.2018) may please be made available in the specified format attached at Annexure –B14. I & II to ERPC for onward transmission to CEA / MoP by 28.02.2019.

In the 131st PSOC meeting O&M agreed to furnish the information to ERPC.

CGM (O&M) may deliberate the status

C.7: Review of the PSS Tuning of Generators in Eastern Region

PSS tuning meeting was conducted by ERPC on 31st January 2019 where generators from Eastern Region have participated. The MoM of the meeting has been released by ERPC and is available on the website. During the PSS meeting following decision have been taken:

1. Generators who had already done the PSS tuning shall submit the details of the Excitation System, PSS tuning and its report. The generators shall submit the Generator terminal voltage,

Field voltage, Real power, Reactive Power, Generator Speed, and PSS output in excel/.csv format for better analysis of the result.

2. Generators for which PSS tuning was not carried out shall take up the PSS Tuning with OEM immediately.

3. Generators for which PSS was not in service shall take up the issue with OEM immediately to bring the PSS into service. 4. For any future tuning, it was recommended to all generators to collect the response along with data in .csv/excel format. 5. All the generators where the PSS tuning was done and PSS not in service shall submit their action plan for PSS Tuning in line with IEGC and CEA standards before the next OCC meeting to ERPC/ERLDC.

In view of the same five categories have been made for comprehensive checkup and plan for PSS tuning for Eastern region Generating plants, which are given at Annexure-B14.

In the 131st PSOC meeting OPGC stated that they have already furnished the data to ERPC. GMR and Vedanta were requested to furnish the data soon to ERPC.

GMR / Vedanta Ltd may deliberate

C.8: Bypassing arrangement of LILO of 400kV Lines at Angul

LILO of Meramundali-Bolangir/Jeypore 400 kV S/C line and LILO of one Ckt of TalcherMeramundali 400 kV D/C line has been done at Angul 765/400kV Sub-station. The bypass arrangement for these circuits were under implementation at Angul by Powergrid. In 154th OCC, Powergrid informed that bypass arrangement would be completed by March 2019.

In the 131st PSOC meeting DGM, Powergrid, Bhubaneswar stated that the bypass work will be completed by 1st week of April'2019

O&M may update the status

C.9: Updated Black Start and Restoration procedure of State—ERLDC As per clause IEGC 5.8(b)

“Detailed plans and procedures for restoration after partial/total blackout of each User’s/STU/CTU system within a Region, will be finalized by the concerned User’s/STU/CTU in coordination with the RLDC. The procedure will be reviewed, confirmed and/or revised once every subsequent year.”

In 154th OCC all the SLDCs to were advised to submit the updated restoration procedure of their respective state.

However SLDCs are yet to submit the Black Start and restoration procedure for respective states.

In the 131st PSOC meeting SLDCs stated that the Black Start and restoration procedure in respect of Odisha is under process and will be submitted after completion.

SLDC/OHPC may deliberate the status

C.10: Periodical Audit and Vulnerability Assessment & Penetration Testing (VPAT) of ICT Infrastructure--CEA

Central Electricity Authority vide letter dated 31st January 2019 informed that a vulnerability has been reported in website of an organization under Power Sector. Any vulnerability present in ICT infrastructure, website, web application etc. may invite attackers to carry out malicious activities. In this case, attackers could exploit the targeted organization.

To avoid the possibility of Cyber Security related issue by plugging and fixing the vulnerability, it is essential to conduct regular & meaningful audit and Vulnerability Assessment and Penetration testing (VPAT) of all ICT infrastructure in addition to adopting the best practices and guidelines by all Power Sector Organizations.

In this regard, all Power Sector organizations are requested to ensure periodical audit and Vulnerability Assessment and Penetration testing (VPAT) of all ICT infrastructure by competent auditors and testers. Further, Sectoral CERTs are requested to take immediate action and coordinate with organizations under their purview for the same.

In 154th OCC, all the constituents were advised to conduct the Audit, Vulnerability Assessment and Penetration Testing (VPAT) of all ICT infrastructure, website, web application etc. and submit a report to CISO, MoP with a copy to ERPC Secretariat.

In the 131st PSOC meeting IT stated that they have completed the audit and the status report submitted to SLDC.

SLDC / IT may deliberate

C.11: Details of Capacitor bank installed in Distribution/Sub transmission network --ERLDC

Details of capacitor installed in Eastern Region as a whole was last collected in year 2011. The last updated list is given in Annexure-B18. In the meantime, many utilities might have installed additional capacitor bank for better voltage regulation some has also applied for fund form PSDF for installation of capacitor banks.

Utilities are requested to provide the updated capacitor bank list for record purpose.

In the 131st PSOC meeting it was decided that O&M shall furnish the list of capacitor banks installed in the grid S/Ss at 33 kV bus to ERPC.

CGM (O&M) may update the status

C.12: Collection of modeling data from Renewable as well as conventional energy generators: ERLDC

As a National Grid operator, POSOCO is continuously working for ensuring reliability and security of the Grid. With penetration of more and more renewable energy source the task is becoming complicated day by day. An accurate dynamic modeling of the National Grid needs modeling of conventional as well as renewable / distributed generation sources. World Bank has engaged Digsilent as consultant for assisting POSOCO for building dynamic model of the Grid. A guideline for dynamic data collection has been developed in consultation with Digsilent Pacific team. All the utilities are requested to collect data from the grid scale renewable power plants as well as from conventional power plants under their jurisdiction and submit the same to ERLDC/ERPC as early as possible.

In the 129th PSOC meeting CGM (PP), GRIDCO stated that M/S MGM Solar has been selected for the pilot project

In the 130th PSOC meeting GRIDCO stated that CESU MRT is not co-operating for accessing the energy meter by M/s Chemtrol. CESU representative assured to take up the matter with their MRT wing.

GRIDCO may deliberate

C.13: Implementation of Automatic Demand Management Scheme

The latest status along with proposed logic as follows:

Sl. No	State /Utility	Logic for ADMS operation	Implementation status/target	Proposed logic (if different from under implementation logic)
1	Odisha	1. System Frequency < 49.9 Hz 2. Odisha over-drawl > 150 MW 3. DISCOM over-drawl > (40 MW)	10 Months Sent for PSDF approval	Logic 2 and 3 is AND or OR, in case it is AND then ADMS may not operate when DISCOMs are in schedule but GRIDCO is over drawing due to less generation at State embedded generators.

In the 116th PSOC meeting, CGM (O&M) stated that since considerable time has already been lapsed SLDC may prepare the EoI without waiting for CPC.

In the 123rd PSOC meeting SLDC stated that since the estimated cost has increased due to inclusive of SCADA integration, the revised estimate is placed in the BoD for approval

In the 124th PSOC meeting SLDC stated that the revised estimate has been approved in the BoD.

In the 129th PSOC meeting SLDC stated that CERC approval is awaited for tendering.

CERC has approved the revised estimate. SLDC shall process for tendering.

SLDC may deliberate

C.14: 220 kV Inter-connecting lines of OPTCL with 400/220 kV Bolangir(PG), Keonjhar & Pandiabil S/s

PGCIL has already commissioned the 2 X 315MVA 400/220kV Bolangir S/s by LILoing of 400 kV Meramandali-Jeypore S/C line and 400/220 kV Keonjhar S/s with an objective of supplying power from ER grid to its adjoining areas in Odisha.

In 131st PSOC meeting the status has been updated as follows:

Sl.	Name of the transmission line	Completion schedule
1.	2 X 315MVA 400/220kV Bolangir S/s	
a.	LILo of one circuit of Sadeipalli-Kesinga 220 kV D/C line at Bolangir (PG) S/S.	Construction of 220 kV Sadeipali- Kesinga line has started. Expected by March'19. 220 kV Sadeipali-Bolangir (PG) portion of the line is expected by July'19.
2.	400/220 kV Keonjhar S/S.	
a.	Keonjhar (PG)-Keonjhar (220/33 kV) 220 kV D/C line	220 kV S.C line and Keonjhar S/S (220/33 kV) , 2x20 MVA charged on 31.12.2018. 2 nd ckt; April''2019
b.	Keonjhar (PG)-Turumunga (220/132 kV) 220 kV D/C Line.	By 2019. Order placed.
3.	400/220 kV Pandiabil Grid S/s	
a.	Pratapsasan(OPTCL)-Pandiabil (PG) 220 kV D/C line	July'2019

In the 130th PSOC meeting Telecom stated that OPGW and telecom equipment for Keonjhar (PG)-Keonjhar line is not available. CGM (Cont) was requested to process the file and write a letter to Telecom. NESCO stated that two nos of feeders will be completed by end of March'2019 for drawing load from Keonjhar S/S.

In the 131st PSOC meeting D.G.M (Telecom) stated that CARD has already been received. All works will be completed by April'2019. NESCO was requested to expedite the takeoff arrangement.

CGM (Cont) / CGM (Telecom)

C.15: Update on status of telemetry

CERC vide order dated 28.02.2016 on Petition No. 007/SN/2014 directed NLDC and respective RLDCs to update the status of telemetry every month at their respective websites and take up the issue of persistent non-availability of data from Generating Stations/substations at RPC meetings for appropriate action.

X X X

With regard to the State network, this was deliberated in the last meetings that data communication from Narsingpur S/s is not in place. Also date communication from NALCO is not stable. Telecom stated that provision for laying optical fibre in Bhanjanagar-Meramundali line has been kept in PSDF scheme. However, if wave trap foundation will be done at Narsingpur S/S, the data communication can be established.

In the 129th PSOC meeting it was decided that NALCO shall write to OPTCL for preparation of estimate for laying of Optical fibre. Construction wing of OPTCL agreed for construction of wave trap foundation at Narsingpur S/S.

In the 130th PSOC meeting Sr. G.M (Telecom) stated that NALCO has submitted a request letter in this regard. Wave trap foundation at Narsingpur is yet to be done.

In the 131st PSOC meeting CGM (Telecom) stated that work order has already been placed for laying of Optical fibre in Meramundali-Bhanjanagar line. As such wave trap is not required. Telecom may take necessary action for preparation of estimate for laying of Optical fiber between NALCO and Meramundali.

Telecom / NALCO may deliberate the status

C.16: Mock Black start exercises in Eastern Region – ERLDC

Sl.	Name of Hydro Station	Schedule	Tentative Date	Schedule	Tentative Date
		Test-I		Test-II	
1	Upper Kolab	Last week of May-2018		Last week of January 2019	
3	Rengali	2 nd week of June 2018		Last week of November 2018	
4	U.Indravati	3 rd week of June 2018		2 nd week of February 2019	
6	Balimela	3 rd week of October 2018		1 st week of March 2019	
9	Burla	Last week of June 2018		Last week of February 2019	

The tentative schedule for mock black start exercise for the FY-2019-20 is yet to be received.

SLDC / OHPC may deliberate

C.17: Submission of Thermal Loading of Transmission line and associated terminal equipment by ISTS licensee

In line with the MoM of 4th NRCE Meeting dt.03-11-14 and “Operational Guidelines for determination of TTC, ATC and TRM for the Short-Term Horizon (0-3 Months)” published by NRCE dt.20-02-15, thermal limit for transmission line has to be used for calculation of ATC/TTC. However, the thermal loading of transmission line depend on the Maximum Conductor Temperature, End equipment thermal rating. This has to be submitted by the Owner of the equipment. Further, the equipment owner also has to confirm that relay setting has been aligned so that the line can be operated up to its thermal limit. In the absence of complete details, ERLDC is utilising the data from the CEA Planning Criteria for thermal rating.

OCC advised all the other ISTS licensees and STUs to submit the relevant data to ERLDC and ERPC.

In the 129th PSOC meeting Sr. G.M (CP) stated that thermal loading data has been submitted by them. O&M shall submit the terminal equipment data

In the 131st PSOC meeting O&M was requested to expedite for furnishing the data.

C.G.M (O&M) may deliberate

C.18: Certification through BIS as per IS 18001:2007 to all generating/ transmission units.

In 84th OCC meeting all constituents were requested to interact with BIS with intimation to ERPC and get certified as per CEA direction.

As per the information received from the constituents the following generators certified with IS 18001: • All NTPC stations in Eastern Region • Teesta, NHPC • All OHPC generating units • All CESC generating units • All units of WBPDCCL • DGPC units

In the 129th PSOC meeting O&M stated that 2nd stage internal audit has been done. Report is yet to be received. Process has been initiated for deposit of application money for external audit. On compliance of the observations Certificate may be issued.

In the 130th PSOC meeting O&M stated that the external audit will be conducted on 7th & 8th March'2019.

In the 131st PSOC meeting O&M stated that Audit has been completed but the report is yet to be received.

CGM (O&M) may deliberate

PART-D – Operational Issues

D.1: Non-compliance of drawal schedule by DISCOMs

Non-compliance of drawal schedule messages issued to Discoms during the month of **March'19**:

Sl. No	Name of Discom	No. of message issued	Over drawal (MU)	Deviation (%)
1	CESU	0	72.296	10.306
2	WESCO	0	8.752	1.366
3	NESCO	0	31.199	6.871
4	SOUTHCO	0	38.936	12.994
	Total	0	151.183	

It is noticed that all the DISCOMs were over drawn during the month **SOUTHCO** has deviated **12.994%** followed by CESU **10.306%** from the scheduled energy while **NESCO and WESCO** have deviated **6.871 % & 1.366 %** respectively. DISCOMs may forecast their drawal in realistic approach to minimise deviation.

SLDC/ Discoms may please deliberate.

D.2: Communication issues

The status of data communication from CGPs as deliberated in the 124th PSOC meeting meeting is as follows.

Sl.	Name of CGP	Present status
1	M/s NINL, Duburi	M/s NINL has requested for Scheme, BOQ for PLCC/SCADA, which has been forwarded by OPTCL. No action has been taken by NINL so far.
2	IRE, Chatrapur	Data communication system yet to be established by the Plant

In the 117th PSOC meeting, Members opined that GCC should file a case soon against NINL & IRE before the OERC.

In the 119th PSOC meeting it was decided that GCC shall file a case against the defaulting CGP/ Consumers before the OERC.

In the 123rd PSOC meeting it was deliberated that RT&C have sought some information from Telecom wing which will be intimated. NALCO stated that due to problem in their internal communication system, data communication to SLDC is being interrupted.

In the 124th PSOC meeting Telecom stated that communication system for Paradeep area industries will be completed by September'2018. Telecom was advised to give a reply to the information sought by RT&C.

In the 125th PSOC meeting Telecom stated that the information sought by RT&C will be forwarded soon.

In the 126th PSOC meeting it was decided that SLDC shall convene a meeting with Telecom, GCC & RT&C and discuss the issue for filing case before the OERC.

A meeting was convened between SLDC, Telecom, GCC, RT&C, NINL & IRE Ltd on dt.15.01.2019 at SLDC conference hall to discuss the communication issue. Representative of IRE, SLDC, GCC and Telecom were attended the meeting. IRE deliberated that presently CB, CT & CVT are not installed at their end. Tendering for procurement of CB, CT & CVT have already been done, which will be expected by end of April'2019. Due to space constraint at IRE Switch yard, installation of the equipment may not be possible, unless the Switchyard is modified. For modification they may need the help of OPTCL. It was suggested by SLDC that IRE may approach Sr. G.M (O&M), Zone-1, OPTCL in this regard. Simultaneously, they also to write Sr. G.M (Telecom), OPTCL for preparing estimate for extending data communication from their end. NINL was not present in the meeting.

In the 129th PSOC meeting it was decided that DGM (O&M), Berhampur and DGM (Cons.), Berhampur shall visit IRE S/W yard and submit a status report to Sr. G.M (O&M), Berhampur. RT&C may file a case before the OERC for non-compliance of extending data communication facility by M/s NINL.

In the 130th PSOC meeting it was decided that RT&C shall file a case before the OERC against the defaulting CGP / Industries and Telecom will provide the required information to them. RT&C vide their letter No. 104(4) dated 01.03.2019 asked Telecom wing to prepare the draft Petition along with the required information to them.

In the 131st PSOC meeting it was decided that T&C and Telecom shall discuss and prepare the Petition to file before the OERC.

RT&C and Telecom may deliberate

D.3: Data communication from newly commissioned RE sources connected at 132 kV- SLDC

There are as many 8 Nos. of Solar projects with installed capacity of 272.5 MW have connected with OPTCL network through 132 kV lines. The real time data of these plants are yet to be received at SLDC control room. Since the generation quantum is quite substantial (to the tune of 0.6 MU during a day), this has an impact on real time generation monitoring.

Telecom may deliberate.

D.4: Implementation of Automatic Meter Reading for OPTCL-Discom interface points.

In the 116th PSOC meeting, IT stated that out of 840 nos. of meters integrated, around data from 750 nos. of meters will be received each month. Data from the remaining 90 meters are to be collected manually.

In the 117th PSOC meeting IT stated that out of 840 nos. of meters integrated, data from 717 nos. of meters have been extracted for the month of December'17. Data could not be collected from 63 Nos. of meters, which were replaced, as the information was received by IT one day before. CGM (O&M) may instruct Secure meters Ltd to inform the replacement of meters to IT immediately.

In the 118th PSOC meeting, IT stated that out of 840 nos. of meters integrated, data from 754 nos. of meters have been extracted for the month of January'18. The extracted data will be compared with the M cubed meter reading. If found satisfactory, the project will be made go live.

In the 119th PSOC meeting IT stated that Parameters of 16 Nos. meters are showing wrong. DLMS data for the newly installed Secure meters are not coming. It was decided that O&M shall discuss the matter with Secure meters to resolve the issue.

In the 123rd PSOC meeting IT stated that out of 840 Nos. interface meters connected with AMI, 750 Nos. are reporting at present. The newly replaced meters are not reporting. 2 Nos. of meters has sent to M/s SECURE meters for study.

In the 127th PSOC meeting IT stated that TCS is demanding Rs. 6.5 lacs for developing the required software. The proposal is placed before the management for approval

In the 128th PSOC meeting IT stated that the memorandum has been placed before the PSC

In the 130th PSOC meeting IT stated that approved letter was yet to be received by them.

In the 131st meeting IT stated that TCS has already developed the driver for Paralakhemundi and Balasore S/S meters. Data fetching is under testing stage.

IT / SLDC may update the status

D.5: Colony consumption of POWERGRID S/Ss

In the 131st PSOC meeting SLDC stated that POWERGRID is consuming power for their colony, which is not reflected in the DISCOM bill. POWERGRID stated that they have applied to DISCOMs to make them consumer.

It was decided that SLDC shall convene a meeting between GRIDCO, POWERGRID & DISCOMs to discuss the issue.

SLDC/ GRIDCO/POWRGRID/DISCOMs may deliberate

PART E: OPERATIONAL PLANNING

E.1: Commissioning status of new Transmission elements.

The status of commissioning of new transmission elements deliberated in the meeting is as follows:

Sl. No	Transmission element details	Present Status
1	Commissioning of 220 kV Jayanagar-Jeypore 2 nd DC line	Expected to be completed by June'19.
2	Commissioning of 400 kV Meramundali-Mendhasal 2 nd ckt.	July'2019
3	220/33 kV, 2x20 MVA Baliguda S/S	July'19
4	220/33 kV, 2x20 MVA Kalimela S/S	July'19
5	220/33 kV, 2x20 MVA Kasipur S/S	April'2019. Line charged.
6	220/132 /33 kV, 2x100 MVA Aska S/S (132/33 kV side)	April'19
7	220/132/33 kV, Goda Chhak S/S (320 MVA)	June'19
8	220/132/33 kV Jayapatana S/S(320 MVA)	July'19
9	220/132 kV Pratapsasan S/S(320 MVA)	Dec'19
10	220/132 kV Kesinga S/S (320 MVA)	July'19
11	132/33 kV Betanati S/S	March'19
12	132/33 kV R.Udyagiri S/S	July'2019

The Discoms are requested to take necessary action for availing power supply from those S/Ss and prepare their action plan for takeoff arrangement.

CGM (Construction) / DISCOMs may deliberate

E.2: Major Events in the month of March'19

1. On dt. 30.03.2019 at 08:00Hrs - #3 of IBTPS, OPGC (660MW) first time synchronized.
2. On dt. 31.03.2019 at 23:32 Hrs – 132 kV bus of 220/132/33 KV Aska (New) Grid S/S charged along with 1x40 MVA 132/33 kV Transformer through LILO of 132 kV Aska-Purussotampur line (Presently made “T” arrangement)
3. On dt. 31.03.2019 at 15:47 Hrs – 132/33 kV, Bhubaneswar UNIT -8, GIS S/S charged by connecting with 220/132/33 KV Chandaka -B GIS S/S through 132 kV UG Cable.

Members may note

E.3: Important Grid Incidences during the month of March'19.

On date. 14.03.2019 At 13:39 Hrs:- 400 KV Lapanga –IBTPS ckt –I & II tripped at both ends. At Lapanga S/S bus bar protection (zone-1) operated which led to tripping of all feeders associated with 400 KV Bus –I. The bus could not be charged due to relay reset problem.

On date **15.03.2019** at **11:59 Hrs**, Bus bar protection relay of 400 KV Bus –II at Lapanga S/S operated due to heavy sparking of line isolator of 400 KV Meramundali – Lapanga ckt –II at Lapanga Switchyard followed by tripping of feeders emanating from Bus-II, resulting black out of 400 kV system.

O&M may deliberate

E.4: Outage of major transmission Elements during the month of March'19. (above 10 hrs).

Sl No	Transmission lines	Tripping Dt/time	Restoration Dt/time	Reason
1	220 kV Balasore-Baripada(PG) ckt-II	02.03.19 05:23	02.03.19 16:12	Snapping of R & Y ph Jumper at loc no -32
2	220KV Therubali- Indravati ckt - III	21.03.19 /18:21	22.03.19/ 16:36	B phase Jumper snapping
3	220 kV Theruvali-Indravati ckt- IV	22.03.19 / 12:21	23.03.19 / 10:56	Delay due to line patrolling. No major fault found.
4	220KV Therubali-Narendrapur Ckt-1	28.03.19 / 13:37	29.03.19 / 20:01	R-phase CT bursting at Narendrapur end.
5	220 kV Joda-RC Pur line	26.03.19/ 08:15	27.03.19 /03:31	Bursting of Y- phase CT at Ramachandrapur end.

O&M may discuss

E.5: Review of Outage Program of State Generators for the month of May'19:

Tentative Outage programme for State Generators for the month of May'2019

Sl.	Station	Unit	Period	Remarks
1	Burla	# 1 # 4 # 5 # 6	14.03.18 to continue 25.10.18 to continue 25.10.16 to continue 16.10.15 to continue	T&G coupling cover water leakage Annual Maintenance Under R,M & U Under R, M & U
2	Chiplima	# 3	15.10.15 to continue	Under R,M work
3	Balimela	# 1 # 2	05.08.16 to continue 20.11.17 to continue	Under R,M work Under R,M work
4	Rengali	# 2	12.12.18 to 10.05.19	Replacement of Runner disc.
5	Upper Kolab	# 3 # 4	28.03.19 to 15.06.19 01.02.19 to continue	Generator stator inter turn / Earth fault Capital maintenance work

OHPC may deliberate

E.6: Generation Program for the month of May'19.

Generation schedule for the month of May'19 furnished by OHPC are given below.

Name of Hydro Gen. Station	Generation Program (MW)		Reservoir Level as on 01.04.19	Reservoir Level as on 01.04.18	MDDL	High Flood Reservoir Level
	May'19 (1 st fortnight)	May'19 (2 nd fortnight)				
HPS-I, Burla	50	50	616.67 ft.	616.52 ft.	590 ft.	630 ft.
HPS-II, Chiplima	40	40	-	-	-	-
Balimela	360	360	1487.50 ft.	1456.50 ft.	1440 ft.	1516 ft.
Rengali	50	50	115.42 mtr.	119.66 mtr.	109.72mtr	123.5 mtr.
U.Kolab	100	100	851.33 mts.	850.72 mtr.	844 mtr	858 mtr.
U. Indravati	300	300	634.40 mtr.	632.61 mtr.	625mtr	642 mtr
MKD (O/D)	30	30	2730.90 ft.	2736.30 ft.	2685 ft.	2750 ft.
TOTAL	930	930				

Generation schedule may change depending on inflow & availability of machine.

SLDC / OHPC may deliberate

E.7: Anticipated power generation and demand for the month of May'2019.

Sl. No	Discom	Average	Peak
1	CESU	1250	1500
2	WESCO	1200	1400
3	NESCO	850	950
4	SOUTHCO	480	550
5	Total Discom	3780	4400
	System Loss & others	150	200
	Total Demand	3930	4600
Availability			
1	Hydro	930	1200
2	State Thermal	750	750
3	IPP, small hydro &RE	600	600
4	ISGS share (including OA& purchase)	1300	1700
5	CGP support (OA)	350	350
6	Total availability	3930	4600
7	Surplus / Deficit	0	0

Members may discuss.

PART F: OTHER ISSUES**F.1: Date and Venue of the next (133rd) PSOC meeting.**