

**Odisha Power Transmission Corporation Ltd. Bhubaneswar.**

**Agenda for 144th PSOC Meeting to be held on 17.03.2022 through Video Conferencing**  
**PART A**

**A. Confirmation of the minutes of the 143<sup>rd</sup> PSOC Meeting held on 07.10.2020**

The minutes of meeting was circulated vide letter No. SGM (PS)-PI-15/2019/4012<sup>(49)</sup> dated 23.11.2020 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 B: GRID PERFORMANCE**

**Review of Grid Performance for the month of February-2022.**

**A. Frequency:**

**Hourly frequency variation for the month of February '22.**

Month	% of time frequency remained					Average
	<49.00	49.00-49.70	49.70-49.90	49.90-50.05	>50.05	
<b>Dec'22</b>	0.06	0.04	7.15	73.84	18.91	50.00
<b>Jan'22</b>	0.00	0.02	6.36	76.80	16.83	50.00
<b>Feb'22</b>	0	0.07	6.39	77.98	15.57	50.00

**Maximum & Minimum frequency during the month of Jan'22 & Feb'22.**

Month	Freq (Hz)	Date	Time
<b>Jan'22</b>	Maximum –50.18	11.01.22	13:00 Hrs
	Minimum – 49.73	29.01.22	16:45 Hrs
<b>Feb'22</b>	Maximum –50.26	06.02.22	18:03 Hrs
	Minimum – 49.54	22.02.22	07:15 Hrs

**B. Grid Demand up to the month of February'22**

Month	Max. Consumption		Demand		Maximum Demand			Minimum Demand		
	MU	Date	MU	Avg. (MW)	MW	Date	Time	MW	Date	Time
Apr'21	117.528	29.04.21	3110	4319	5383	28.04.21	00:00	3388	09.04.21	01:00
May'21	124.752	19.05.21	3043	4090	5638	18.05.21	23:00	2000	11.05.21	14:00
June'21	108.432	30.06.21	3014	4186	5019	20.06.21	22:00	3354	22.06.21	14:00
July'21	121.656	17.07.21	3397	4566	5576	17.07.21	23:00	3798	08.07.21	04:00
Aug'21	121.032	26.08.21	3398	4567	5732	25.08.21	20:00	3862	03.08.21	14:00
Sep'21	121.056	05.09.21	3239	4499	5536	08.09.21	20:00	3034	14.09.21	05:00
Oct'21	122.424	07.10.21	3481	4679	5900	06.10.21	20:00	4087	01.10.21	18:00
Nov'21	115.248	04.11.21	3061	4252	5538	03.11.21	19:00	3267	29.11.21	04:00
Dec'21	111.91	23.12.21	3056	4107	5406	23.12.21	19:00	2942	02.12.21	15:00
Jan'22	105.816	01.01.22	2926	3933	5101	01.01.22	09:00	2908	12.01.22	03:00
Feb'22	130.18	28.02.22	2933	4364	5424	28.02.22	20:00	3397	02.02.22	04:00

### C. Voltage Profile of 220 kV Buses in OPTCL system for the month of: February'22

SUBSTATIONS	MAXIMUM			MINIMUM			AVERAGE KV
	KV	DATE	TIME	KV	DATE	TIME	
AskaN	239.59	19-02-2022	03:30	224.85	22-02-2022	09:15	233.39
Atri	235.96	05-02-2022	00:15	222.62	22-02-2022	09:15	229.84
Balasore	232.95	05-02-2022	00:15	219.56	12-02-2022	09:15	227.05
Balimela	240.06	25-02-2022	01:45	222.04	27-02-2022	11:15	236.71
Barkote	236.36	01-02-2022	03:15	221.64	21-02-2022	10:30	232.89
Bargarh	225.33	04-02-2022	05:15	209.63	28-02-2022	18:30	218.50
Bhadrak	235.21	05-02-2022	00:00	220.54	03-02-2022	08:45	228.75
Bhanjanagar	239.54	19-02-2022	03:30	225.56	22-02-2022	09:15	233.82
Bidanasi	237.75	10-02-2022	03:15	217.08	25-02-2022	18:15	230.62
BolangirN	228.28	12-02-2022	02:30	212.29	10-02-2022	09:00	222.05
Budhipadar	229.84	01-02-2022	03:00	223.49	26-02-2022	09:15	226.64
Chandaka	235.26	05-02-2022	00:15	220.71	25-02-2022	12:15	228.58
Cuttack	236.76	03-02-2022	02:00	216.10	25-02-2022	18:15	229.57
Duburi Old	232.55	09-02-2022	03:45	217.54	22-02-2022	10:00	227.80
Duburi New	236.36	05-02-2022	00:15	223.72	28-02-2022	18:45	230.51
Infocity-II GIS	236.76	05-02-2022	00:15	223.30	22-02-2022	10:45	230.41
Jayanagar	248.77	27-02-2022	12:45	213.96	27-02-2022	11:15	234.78
Joda	227.58	04-02-2022	05:15	216.90	25-02-2022	16:30	223.31
Katapalli	227.53	04-02-2022	05:15	216.90	25-02-2022	16:30	223.27
KeonjharGIS	222.09	01-02-2022	04:00	208.53	22-02-2022	09:15	218.26
Lapanga	228.34	01-02-2022	03:00	221.58	28-02-2022	18:30	225.13
Laxmipur	240.81	25-02-2022	01:45	229.09	10-02-2022	09:15	236.56
Malkangiri	239.88	25-02-2022	01:45	222.16	27-02-2022	11:15	236.74
Mendhasal	237.69	05-02-2022	00:15	224.06	22-02-2022	10:45	231.82
Meramundali	234.80	01-02-2022	04:00	226.49	09-02-2022	11:15	230.93
Narsinghpur	227.82	01-02-2022	04:00	218.04	22-02-2022	09:15	223.19
Narendrapur	238.32	21-02-2022	13:00	220.77	02-02-2022	09:00	232.12
Nayagarh	237.00	01-02-2022	04:00	221.35	25-02-2022	12:15	231.11
Paradeep	236.94	05-02-2022	00:00	218.29	28-02-2022	18:45	229.31
Tarkera	228.91	04-02-2022	03:45	221.41	12-02-2022	09:15	225.44
Theruvali	240.11	25-02-2022	04:45	225.33	10-02-2022	09:15	234.28
Rengali	231.74	01-02-2022	03:15	226.08	21-02-2022	12:15	228.69

The maximum Voltage of **248.77 kV** occurred at **Jayanagar 220 kV Bus.**, while **Keonjhar GIS 220 kV** bus has experienced the minimum Voltage of **208.53 kV**. The 220 kV Voltage profile of all the major 220kV & 132kV Bus during the month of **February'2022** are indicated in System performance presentation.

**Members may discuss.**

**D. Loading of 220/ 132 kV Auto at 220 kV S/Ss in OPTCL system for the month of Feb– 2022.**

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	70.32	23rd Feb 2022	11:45	17.36	14th Feb 2022	02:00	
		65.08	10th Feb 2022	18:00	17.28	14th Feb 2022	02:00	
ASKA NEW	2x160	130.00	10th Feb 2022	08:30	9.20	12th Feb 2022	13:30	
		118.96	14th Feb 2022	07:45	9.16	12th Feb 2022	13:30	
BALASORE 220/132 KV { Balasore, Birla Tyre(I), Ispat Alloy(I), Jaleswar, Jaleswar(T)}	3x160	64.96	12th Feb 2022	17:45	16.88	4th Feb 2022	09:30	
		64.28	12th Feb 2022	18:30	16.64	4th Feb 2022	09:45	
		63.88	12th Feb 2022	17:45	16.68	4th Feb 2022	09:30	
BARGARH 220/132 kV	1x100	77.40	3rd Feb 2022	07:30	3.64	4th Feb 2022	05:30	
	1x160	47.28	3rd Feb 2022	07:30	1.72	4th Feb 2022	05:30	
BHADRAK 220/132 KV {Bargarh, Ghensh}	1x100	26.28	3rd Feb 2022	07:45	4.52	4th Feb 2022	17:15	
	1x160	44.88	3rd Feb 2022	07:45	8.20	4th Feb 2022	17:15	
	1x160	45.16	3rd Feb 2022	07:45	7.96	4th Feb 2022	17:15	
BHANJANAGAR 220/132 KV { Bhanjanagar, Aska, Phulbani, Ganjam, Chatrapur}	1x160	64.36	11th Feb 2022	08:30	9.68	8th Feb 2022	16:00	
	1x160	56.44	11th Feb 2022	08:30	8.20	8th Feb 2022	16:00	
BIDANASI 220/132 KV {Bidanasi, Khurda }	1x100	24.36	3rd Feb 2022	18:30	0.04	3rd Feb 2022	01:00	
	1x100	28.16	8th Feb 2022	11:15	0.04	10th Feb 2022	00:00	
	1x160	34.76	3rd Feb 2022	18:30	0.04	1st Feb 2022	03:45	
BOLANGIR (SADAIPALLI) 220/132 KV { Bolangir, Patnagarh, Sonepur, Saintala, Khariar, Barpalli }	3x160	105.08	26th Feb 2022	18:45	0.04	14th Feb 2022	13:15	
		105.08	26th Feb 2022	18:45	0.04	14th Feb 2022	13:15	
		109.12	28th Feb 2022	18:45	0.04	14th Feb 2022	13:15	
BUDHIPADAR 220/132 KV { Jharsuguda, Jharsuguda Tr, Cemco(I), MCL, Sundergarh, Brajarajnaragar, Rajgangpur}	2x160	80.36	4th Feb 2022	09:30	25.80	9th Feb 2022	05:00	
		88.88	17th Feb 2022	11:45	26.72	9th Feb 2022	05:00	
CHANDAKA 220/132 KV { Chandaka, Bhubaneswar, Nimapada, Ransinghpur, Puri, Kesura, Kaipadar Tr. }	1x100	67.00	28th Feb 2022	18:30	12.12	1st Feb 2022	03:45	
	1x160	117.60	28th Feb 2022	18:30	21.80	1st Feb 2022	04:00	
	1x100	73.72	28th Feb 2022	18:30	13.52	1st Feb 2022	03:45	
	1x160	107.80	26th Feb 2022	18:00	20.80	1st Feb 2022	03:45	
CUTTACK	1x160	62.04	17th Feb 2022	18:00	0.04	13th Feb 2022	00:00	
	1x100	37.72	10th Feb 2022	18:00	0.04	25th Feb 2022	08:00	
DUBURI 220/132 KV {Duburi, Bamnipal(I), BRPL, MESCO, Jajpur Road, Kalarangi, Jajpur Town}	1x160	64.76	23rd Feb 2022	19:15	28.96	17th Feb 2022	16:30	
	1x100							UNDER SHUT DOWN
	1x100	39.36	1st Feb 2022	07:15	17.40	17th Feb 2022	16:30	
GODA	1x160							
	1x160							
JAYAPATNA 220/132 KV.								
JAYANAGAR 220/132 KV. [Damanjodi(NALCO), Traction S/Ss, Tentulikhunti, Sunabeda, Jayanagar]	1x160	56.04	8th Feb 2022	09:15	1.48	6th Feb 2022	14:15	
	1x160	55.60	11th Feb 2022	08:15	1.52	6th Feb 2022	14:15	
JODA 220/132 KV { Joda, Tensa, FAP(I), Bolani(I), Nalda Tr., Polasponga, *Rairangpur, Bhalulata traction}	3x100	0.00	1st Feb 2022	00:00	0.00	1st Feb 2022	00:00	** -
	3x160	94.44	7th Feb 2022	06:45	41.24	2nd Feb 2022	13:45	Alternate P/S
	3x100	76.48	7th Feb 2022	06:45	28.96	10th Feb 2022	12:15	from Kuchei.
KATAPALI 220/132 KV {Chipilima, Bargarh, ACC, Sonepur & Katapali area load.}	1x100	23.68	18th Feb 2022	11:15	0.04	8th Feb 2022	19:30	Supported by Burla & Chipilima power.
	1x100	23.72	18th Feb 2022	11:15	0.04	8th Feb 2022	19:00	
	1x160	35.16	15th Feb 2022	09:00	0.04	4th Feb 2022	06:00	
KESINGA	2x160	0.30	26th Feb 2022	05:30	0.00	11th Feb 2022	11:00	
LAPANGA {Kuchinda, Aryan Viraj, Shyam Metallics}	2x160	88.92	18th Feb 2022	11:15	20.68	9th Feb 2022	05:00	
		92.28	17th Feb 2022	11:45	20.48	9th Feb 2022	05:00	
MERAMUNDALI 220/132 kV {Meramundali Traction, Dhenkanal, Navchrome(I), Hind Metal, Aarti, BRG}	3x100	50.80	19th Feb 2022	12:00	0.04	19th Feb 2022	10:30	
		49.08	19th Feb 2022	12:00	0.08	20th Feb 2022	16:00	
		0.00	1st Feb 2022	00:00	0.00	1st Feb 2022	00:00	
Mendhasal { Part area load of Khurda S/S}	2x100	39.92	28th Feb 2022	18:30	10.44	1st Feb 2022	04:00	
		37.59	28th Feb 2022	18:30	9.92	1st Feb 2022	04:00	
NARENDRAPUR 220/132KV	2x160	84.84	11th Feb 2022	08:30	21.88	21st Feb 2022	16:30	

{ Narendrapur, NarendrapurTr, Berhampur, Chhatrapur, Ganjam, Balugaon, Digapahandi, Mohana.}		81.88	11th Feb 2022	08:30	11.48	14th Feb 2022	07:45	
	1x100	47.20	11th Feb 2022	08:30	6.00	14th Feb 2022	07:45	
<b>PARADEEP 220/132 KV</b> { Paradeep, Kendrapada, Pattamundai, Chandikhol, Cuttack, Jagatsinghpur, Phulnakhara}	1x100	43.16	3rd Feb 2022	09:15	12.56	5th Feb 2022	03:15	
	1x160	69.76	28th Feb 2022	19:15	20.84	5th Feb 2022	03:15	
<b>TARKERA 220/132 KV</b> { Rourkela, Rourkela Tr.,RSP(I), Chhend , Adhunik Metal, Rajgangpur, OCL(I), Rajgangpur Tr.}	4x100	55.96	10th Feb 2022	09:30	11.84	4th Feb 2022	03:45	
		65.92	13th Feb 2022	07:30	12.80	4th Feb 2022	03:45	
		64.80	13th Feb 2022	07:30	11.84	4th Feb 2022	03:45	
		64.96	13th Feb 2022	07:30	12.92	4th Feb 2022	03:45	
<b>THERUVALLI 220/132 KV.</b> { Theruvalli, IMFAL(I), JK(I), Junagarh, Kesinga, Powmex(I), Rayagada, }	2x100	60.88	24th Feb 2022	18:45	1.56	1st Feb 2022	13:45	Rayagada & Paralakhe mundi can be fed from Machhkund system.
		80.48	3rd Feb 2022	17:00	0.72	1st Feb 2022	13:45	
	1x160	99.20	24th Feb 2022	19:00	0.60	1st Feb 2022	13:45	
<b>TTPS 220/132 KV</b> { Chainpal, FCI (I), Angul, MCL Nandira(I), Rairakhole,Boinda,Kamakhyanagar , Kalarangi,Nuapatna, Choudwar }	1x160							
	1x160							
<b>SAMANGARA</b> { Puri, Nimapara & Konark}	2x160							

### ICT LOADING FOR THE MONTH OF FEBRUARY '2022

Name of the 400 kV Sub-Station	Capacity MVA	Drawal details						REMARKS
		Maximum			Minimum			
		MW	Day	Time	MW	Day	Time	
MERAMUNDALI	2x315	206.80	25th Feb 2022	12:15	1.20	8th Feb 2022	13:30	
		0.00	1st Feb 2022	00:00	0.00	1st Feb 2022	00:00	
MENDHASAL	3x315	180.00	19th Feb 2022	10:30	82.80	6th Feb 2022	15:00	
		181.20	19th Feb 2022	10:30	82.80	6th Feb 2022	15:00	
		179.60	19th Feb 2022	10:30	83.20	6th Feb 2022	14:15	
DUBURI(N)	2x315	187.60	3rd Feb 2022	08:30	68.00	5th Feb 2022	00:00	
		210.00	19th Feb 2022	08:00	68.80	5th Feb 2022	00:00	
LAPANGA	2x315	226.40	17th Feb 2022	11:15	0.80	23rd Feb 2022	14:45	
		225.60	17th Feb 2022	11:15	0.40	23rd Feb 2022	14:45	

### E. Energy Generation / Import up to the month of February'22

Figures in MU

Month	Thermal	OHPC & MKD	CGP Support	IPP Inj.	RE	ISGS	Total
Apr'21	630.789	383.106	416.508	335.309	64.585	1279.060	<b>3109.357</b>
May'21	871.360	307.940	366.305	438.059	70.111	989.436	<b>3043.211</b>
June'21	619.613	393.747	378.131	445.441	87.760	1089.585	<b>3014.277</b>
July'21	739.613	507.694	367.172	491.658	91.280	1199.856	<b>3397.272</b>
Aug'21	802.170	590.414	372.884	536.310	94.167	1002.110	<b>3398.054</b>
Sep'21	809.641	527.320	345.650	412.719	93.083	1050.639	<b>3239.051</b>
Oct'21	738.260	679.611	312.307	505.062	98.358	1147.654	<b>3481.252</b>
Nov'21	750.252	288.764	192.893	459.425	74.734	1295.505	<b>3061.573</b>
Dec'21	759.815	225.065	275.558	486.498	65.356	1243.101	<b>3055.392</b>
Jan'22	816.810	243.530	278.653	234.339	63.612	1289.258	<b>2926.201</b>
Feb'22	871.906	252.456	251.304	216.585	64.928	1275.592	<b>2932.772</b>
<b>Total</b>	<b>8410.228</b>	<b>4399.647</b>	<b>3557.364</b>	<b>4561.404</b>	<b>867.973</b>	<b>12861.797</b>	<b>34658.412</b>

## F. Drawal of Machakund Power

The drawal of Machhakund power up to the month of **February'22** are as detailed:

Drawl of Machhakund Power						
Month	Total Generation		Odisha Drawl		AP Drawl	
	MU	Avg (MW)	MU	Avg (MW)	MU	Avg (MW)
Apr'21	44.242	61.447	19.069	26.485	23.337	32.413
May'21	65.926	88.610	27.614	37.116	36.022	48.417
June'21	57.834	80.325	24.981	34.696	30.791	42.765
July'21	65.571	88.133	28.027	37.671	35.514	47.734
Aug'21	69.806	93.825	30.362	40.809	36.997	49.727
Sep'21	49.152	68.267	22.441	31.168	24.653	34.240
Oct'21	56.589	76.060	25.431	34.181	28.934	38.890
Nov'21	55.439	76.999	24.510	34.042	28.779	39.971
Dec'21	63.595	85.477	27.257	36.636	33.866	45.519
Jan'22	78.670	105.739	33.303	44.762	42.515	57.144
Feb'22	60.359	89.820	26.780	39.851	31.250	46.503

In the 143rd PSOC meeting, members opined to maximize the Machhkund drawal by putting matching load.

Presently, Machhkund supply is being availed by Jayanagar, Podagada, Pottangi, Rayagada, Akhusingh, Paralakhemundi, Mohana as per the Machhkund generation availability. Sunabeda can also avail Machhkund supply.

**GRIDCO / O&M/SLDC/ TPSODL may discuss.**

## G. Under Frequency Relay operation in OPTCL System during the month of February'22.

Since, the frequency had never gone beyond the lowest setting of UFR, there was no UF Relay operation occurred during the month of **February'22**.

**Members may note**

## H. Status of Open Access applications up to the month of February 2022

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

MONTH	RECEIVED					DISPOSED					Rejected	SCHEDULED ENERGY IN MU
	INTRA	INTER			TOTAL	INTRA	INTER			TOTAL		
		ST	LT/MT	PX			ST	LT/MT	PX			
Apr-21	298	254	0	41	593	298	254	0	41	593	0	886.69
May-21	343	273	0	47	663	343	273	0	47	663	0	1074.47
Jun-21	336	222	0	42	600	336	222	0	42	600	0	1085.11
Jul-21	214	174	0	42	430	214	174	0	42	430	0	1166.79
Aug-21	199	306	0	52	557	199	306	0	52	557	0	1133.57
Sep-21	201	351	0	45	597	201	351	0	45	597	0	1350.64
Oct-21	215	368	0	45	628	215	368	0	45	628	0	1252.47
Nov-21	211	562	0	49	822	211	562	0	49	822	0	1190.82
Dec-21	235	540	0	37	812	235	540	0	37	812	0	1094.37
Jan-22	286	429	0	55	770	286	429	0	55	770	0	942.74
Feb-22	267	756	0	40	1063	267	756	0	40	1063	0	1302.62
<b>TOTAL</b>	<b>2805</b>	<b>4235</b>	<b>0</b>	<b>495</b>	<b>7535</b>	<b>2805</b>	<b>4235</b>	<b>0</b>	<b>495</b>	<b>7535</b>	<b>0</b>	<b>12480.30</b>

*Members may note:*

- 1. All requisitions for planned outage of interstate tie lines and 400kV transmission elements which needs ERLDC approval for next month must be sent by 04<sup>th</sup> of the current month.*
- 2. Requisitions for first time charging of transmission elements must be accompanied with first time charging formats A1-A5, B1-B5 along with clearance from electrical inspector, PTCC clearance in case of line diversion (shifting more than 1km) . In case of ISTS lines, CTU charging instructions and standing committee report must be submitted. The parameters of the elements must be sent in annexure 1-B format. In case of modified elements, B6, B7 & B8 must be submitted. The formats must be sent atleast 10days prior to scheduled date of FTC. (ref: Annexure)*
- 3. All OHPC stations are hereby requested that the timings of planned and forced outages and standby declaration of machines must be intimated to SLDC vide Email at [hydpafm@sldcorissa.org.in](mailto:hydpafm@sldcorissa.org.in) and [hydpafm@gmail.com](mailto:hydpafm@gmail.com) for record and calculation of PAFM..*

## **PART C – Issues discussed in the earlier OCC meetings of ERPC**

### **C.1: Outage of Important Transmission System.**

#### **C.1.1. 220kV Pandiabili - Samangara D/C**

220kV Pandiabili-Samangara D/C line tripped on 03-02-2019 during the event of Fani due to Tower collapse. 48 no towers got fully damaged and 12 no towers got partially damaged. Presently the line is charged from Pandiabili end up to location no 58. It is a very important line for supplying power to Puri area and is under outage for more than 2 years.

In the 182nd OCC meeting, OPTCL representative submitted that the restoration work redesigning of tower in view of change of wind zone from Zone 4 to Zone 6 for 220kV Pandiabili - Samangara D/C line is being carried out by PowerGrid. OPTCL representative informed that the line is expected to be restored by March'2022.

In the 183rd OCC meeting, OPTCL representative informed that design of all the tower foundations of subjected line has been changed from open cast to pile foundation-based tower. Therefore, the restoration of the line would take considerable time and so expected by June'23.

In the 184th OCC meeting, OPTCL representative submitted that DA & DD type tower design has already been tested and passed by CPRI, however, the prototypes of DB & DC type tower are under testing. The action plan of the restoration work would be submitted by PowerGrid after successful testing.

In the 185th OCC meeting, OPTCL representative informed that permission for testing of type DB & DC towers has been taken from CPRI but the tentative timelines for completion of test are yet to be received from CPRI.

In the 186th OCC meeting, OPTCL representative informed that the type testing of DB & DC towers is under progress at CPRI. Type testing of DB & DC type tower is expected to be completed by 22nd and 28th December 2021 respectively. Further, the foundation work of towers has also started and is under progress.

In the 187th OCC meeting, OPTCL representative informed that the type-testing for all the towers had been completed at CPRI. The foundation work has been started at three places and the tower materials would be procured shortly.

#### **Construction wing may update.**

#### **C.1.2. 440/220kV 315 MVA ICT 2 at Meramundali:**

400KV/220KV 315 MVA ICT 2 at Meramundali tripped on 21-02-2021 due to fire hazard at Meramundali SS and the ICT is under outage since then. Meramundali S/S is serving the

important load of the Odisha. Long outage of an ICT at such crucial S/S may hamper the reliability of the Grid.

In the 182nd OCC meeting, OPTCL representative submitted that the old ICT, which was completely damaged, would be replaced by a new one and the replacement work is expected to be completed by 30th Nov'21.

In the 184th OCC meeting, OPTCL representative submitted that the work would be completed by December'21 and mentioned that representative of BHEL (OEM) is yet to visit the site. The civil construction work has been completed and the said transformer is on the plinth.

In the 185th OCC meeting, OPTCL representative informed that they are in constant touch with the OEM and after receipt of some of the materials at the site the erection work is expected to be completed by the end of December 2021.

In the 186th OCC meeting, OPTCL representative informed that some materials are yet to be received for which the order has already been placed. After receipt of materials and arrival of OEM representatives, work would be started and would be completed in another 2 months.

In the 187<sup>th</sup> & 188<sup>th</sup> OCC meeting, OPTCL representative informed that the required materials have been received and the work would be started after the arrival of OEM engineers.

**O&M may deliberate.**

### **C.2: Performance of Primary Frequency Response of Generating Units.**

After every event as communicated by ERLDC, the details of frequency response is being shared with the generators but no response is received regarding the reason behind non-satisfactory response. In several discussions with ERLDC, it has been communicated that frequency response of the generators need to be analysed at generator end.

**SLDC/ OPGC/OHPC may deliberate.**

### **C.3. Testing of primary frequency response of state generating units by third party agency-- ERLDC**

In the 171st OCC Meeting, OCC advised all the SLDC's to prepare the action plan for their state generators and submit the details to ERPC and ERLDC at the earliest.

In the 183rd OCC meeting, OHPC representative submitted that work order has been placed on M/s Solvina and they are planning to conduct the test in the month of Nov'21 for unit#5 of Rengali & Unit #4 of Indravati HEP.

In the 184th OCC meeting, OHPC representative submitted that the order has been placed to M/s Solvina on 3rd Sept'21 and the testing of unit#5 of Rengali & Unit #4 of Indravati HEP are scheduled to be conducted in the month of Nov'21.

In the 186th OCC Meeting, OHPC representative informed that the testing of Primary Frequency Response of all the units of Rengali and Indravati would be done by the 2nd week of January 2022.

**SLDC, OHPC & OPGC may deliberate.**

### **C.4: 220 kV Inter-connecting lines of OPTCL with Keonjhar PG & Pandiabil S/s**

In 143<sup>rd</sup> PSOC meeting the status has been updated as follows:

Sl.	Name of the transmission line	Completion schedule
1.	400/220 kV Keonjhar S/S.	
a.	Keonjhar (PG)-Turumunga (220/132 kV) & 220 kV D/C Line.	March'2021
2.	400/220 kV Pandiabil Grid S/s	
a.	Pratapsasan(OPTCL)-Pandiabil (PG) 220 kV D/C	March'2021

## **Construction / Telecom wing may update.**

### **C.6: 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. Major issues are given below:

#### **Issues relating OPTCL Network:**

##### **Narsingpur data:**

In the 132<sup>nd</sup> PSOC meeting CGM (Telecom) stated that survey work for Meramundali-Bhanjanagar line is under process. OPGW will be reached at site after completion of survey and preparation of drum schedule.

In the 134<sup>th</sup> meeting CGM (Telecom) stated that delivery of OPGW has already been started.

In the 135<sup>th</sup> PSOC meeting DGM (Telecom) stated that replacement of earth wire by OPGW in 220 kV Bhanjanagar-Meramundali is expected by December'2019.

In the 143<sup>rd</sup> PSOC meeting, GM (telecom) informed that telemetry data of Narsinghpur will be available within one month.

**NALCO data:** DGM (Telecom) stated that the vendor list and rate will be provided to NALCO for placement of order by them.

In the 137<sup>th</sup> PSOC meeting, NALCO stated that the estimate has already been received from OPTCL (Telecom). Approval from higher authority is under process.

In the 139<sup>th</sup> PSOC meeting, NALCO stated that they need protection scheme to be incorporated in the estimate. PSOC advised NALCO to write Telecom wing of OPTCL for revise estimate.

In the 140<sup>th</sup> PSOC meeting, DGM (Telecom) stated that protection scheme has already been incorporated in the estimate. NALCO representative was not present in the meeting for deliberation.

In the 141<sup>th</sup> PSOC meeting, NALCO stated that the file is under process by their Finance wing.

In the 143<sup>rd</sup> PSOC meeting, NALCO intimated that file has been sent for administrative approval to their corporate office and the approval is expected within one month.

#### **Telecom / NALCO may deliberate the status**

### **C.7: Monitoring of Next Six-Month New Element Integration in OCC and Its Update on Monthly Basis --ERLDC**

It has been observed that many elements are getting interconnected into the system and beforehand details are not available with the system operator resulting in difficulty in carrying out operational planning activity. In view of this, as a regular agenda all ISTS and ISGS/IPP to update the OCC regarding any new elements at 220 kV and above which will be integrated in next six months with the grid. For State Grid, SLDC will be submitting the details on behalf of its intrastate Generation and transmission system. The format is given below:

Transmission Elements	Agency/ Owner	Scheme (ERSS/ TBCB/ Standing Committee/State	Schedule Completion	Projected Month for Completion	Issue Being Faced



In previous several OCC, Transmission licensees and SLDCs are requested to submit RLDC/RPC following details on monthly basis

- List of transmission element /generators of State and ISTS licensees synchronised in the last month.
- List of transmission element /generators expected to be synchronised during next month or in near future

Some SLDCs are submitting the list of intrastate and interstate line on regular basis, however transmission element /generators expected to be synchronised during next month or in near future is not submitted by any SLDC/Transmission licensee to RLDC/RPC.

In 163rd OCC, OCC advised all the constituents, SLDCs and ISTS licensees to submit the details to erldcprotection@posoco.co.in as per the format.

List of upcoming Transmission Element is received from Bihar and Jharkhand.

In the 141<sup>th</sup> PSOC meeting, DGM (Const) stated that the information has already been submitted. In the 143<sup>rd</sup> PSOC meeting, O&M and construction wing stated that the information shall be submitted to SLDC on regular basis.

As per the mail received from Construction wing on Dt.15.03.2022, the list is as follows:

Sl. No.	Name of the Project	Expected month of charging
1	132/33kV Bahugram S/s	
2	132/33kV Birmaharajpur S/s	
3	132/33kV Hirakud S/s	
4	220/132kV Gunupur S/s	
5	220kV Pandiabil-Pratapsasan line	
6	220/33kV Godisahi	
7	220/132/33kV Kuanramunda S/s	
8	220/132/33kV Bamra S/s	
9	220/33kV Kalimela S/s	
10	132/33kV Bhatli S/s	
11	132/33kV Lakhanpur S/s	
12	132/33kV Chandipur S/s	
13	220/132/33kV Kiakata S/s (132/33kV portion) with 132kV line from Boudh to Kiakata	
14	220/132/33kV Dhamra S/s	
15	132kV Chandbali-Dhamra line	
16	Conversion of 132kV SC line from Jayanagar to Sunabeda to DC line	
17	220kV LILO of Narendrapur-Therubali at Aska New	
18	132/33kV Lakhanpur S/s	
19	220/33kV Daspalla S/s	

**O&M / Construction wing may deliberate.**

### **C.9: Preparation of crisis management plan for Cyber Security in Power Sector in line with CERT-IN.**

The activity of the preparation of Crisis Management Plan for countering the cyber-attacks and its implementation including the Mock Drills, audits etc. is being monitored by CEA regularly in line with crisis management plant of Ministry of Power. Power Utilities (including generation,

transmission & distribution utilities) of eastern region are to furnish regularly the updated status to on the same to Chief Engineer, Distribution Planning & Development Division, CEA.

In 142nd OCC, ERLDC informed that, in line with Enquiry Committee Recommendation, cyber security audit is being conducted on regular basis for SCADA system installed at ERLDC and SLDC as well but cyber security audit for telecom infrastructure installed in Eastern Region is not being carried out.

OCC advised all the constituents to conduct the cyber security audit on telecom infrastructure installed in Eastern Region. It is further advised that compliance / mitigation of the points observed during the audit should also be completed for improvement of the telecom infrastructure in ER.

As suggested by CEA, a format has been circulated among ER constituents for furnishing the information of the respective systems for discussion in OCC Meeting. The format is enclosed at Annexure-E1.

OCC advised all the constituents to submit the information to ERPC as per Annexure-E1. OPTCL has submitted the required data

In the 139<sup>th</sup> PSOC meeting, IT stated that the Auditing is under process since 20<sup>th</sup> Nov'19 and will be completed today. The information has been submitted to ERPC in the prescribed format.

In the 140<sup>th</sup> PSOC meeting, SLDC stated that IT wing have forwarded the report in the prescribed format to ERPC for the Qr. ending Sept'2019.

In the 141<sup>th</sup> PSOC meeting IT stated that ISO certification for cyber security has been renewed for one year. Telecom may provide 3 Nos. CCTV, Fire alarm and biometric arrangement for their server room.

**IT /Telecom may update.**

## **PART-D – Operational Issues**

### **D.1: Compliance of CEA Regulations for Grid Connectivity of Renewable Energy Sources.**

As per CEA (Technical Standards for connectivity to Grid) Regulations, 2007, dated 21<sup>st</sup> February 2007, the pertinent clauses 6 (iii) & 6 (iv) (b) of general Connectivity Conditions shall be applicable to all the Generating Projects including the renewable, which are getting connected to the Grid at voltage level of 33kV & above. Subsequently, CEA have notified the CEA (Technical Standards for Connectivity of the Distributed Generation Resources) Regulations 2013 dated 30.09.2013. These Regulations are applicable for “Distributed Generation Resources”, which means A Generating Station feeding electricity into the System at voltage level below 33kV. Needless to mention that these Regulations also cover the renewable projects connected to the Distribution Licensee’s System at voltage level of below 33kV. The letter received from CEA is annexed herewith.

SLDC has already forwarded the Regulations & a letter received from DoE, Govt. of Odisha to the Distribution Licensees.

A meeting has been convened by Gridco in this regard with the RE generators, OPTCL, Telecom & SLDC. In the meeting, two nos of agencies presented their data acquisition logic from the RE sources. It was decided that each agency will take up a pilot project for data communication from one RE source to SLDC. On completion of the above project next course of application shall be decided.

A committee has been constituted with representatives of GRIDCO, O&M, Telecom & SLDC. This issue was also discussed in the 16<sup>th</sup> GCC meeting held on 09.08.2019. GRIDCO assured to make a demo of data communication from MGM Solar at Tangi to SLDC by end of August'19.

After successful demonstration of the data communication from the pilot Solar plant by Chemtrol, A meeting was convened by GRIDCO with all the Solar developers, Telecom, SLDC, OPTCL & DISCOMs to discuss the commercial issue.

In the 140<sup>th</sup> PSOC meeting GRIDCO stated that the rate offered by M/s Chemtrol for integration of real time solar data is being examined by the developers. The next meeting is scheduled to be held on 27<sup>th</sup> December'19 to discuss and finalize the issue.

In the 141<sup>th</sup> PSOC meeting GRIDCO stated that 15<sup>th</sup> January'20 was the dead line fixed for placing order by the developers. Data communication is expected by end of March'2020.

In the 143<sup>rd</sup> PSOC meeting, Sr.GM(Telecom) informed that 14nos of RTU panels are ready for despatch while Chemtrol requested for waiver of inspection charges claimed by OPTCL.

### **Telecom may deliberate the status.**

#### **D.2: 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.

In the 133<sup>rd</sup> PSOC meeting CGM (Telecom) stated that Vinto Solar data can be integrated only after laying of optical fiber, which has been proposed for PSDF funding

In the 137<sup>th</sup> PSOC meeting CGM (Telecom) stated that laying of optical fiber is expected to be completed by December'2019. DGM (Telecom) suggested that SLDC may write a letter to Vento Power (Solar) at Kesinga to explore the data communication, since all communication equipment are available with them. Data communication can be made through after visit of the service Engineer of the company.

In the 138<sup>th</sup> PSOC meeting, it was suggested that Telecom may ensure establishment of data communication facility before recommending for connectivity for any Solar Plant.

In the 139<sup>th</sup> PSOC meeting Telecom stated that data communication from all the Solar stations connected through 132 kV is expected by January'2020.

In the 140<sup>th</sup> PSOC meeting, DGM (Telecom) stated that the Despatch Instruction for OPGW has already been issued. Laying of optical fiber is expected by June'20. As suggested by DGM (Telecom), SLDC may write a letter to Vento Power (Solar) at Kesinga to explore the data communication, since all communication equipment are available with them.

In the 141<sup>th</sup> PSOC meeting DGM (Telecom) stated that Vento Solar at Kesinga has procured PLC in place of RTU resulting non- communication of data. It was decided that GRIDCO shall approach all the RE projects to speed up the process of data communication. Telecom may explore the process for laying of optical fiber.

In the 143<sup>rd</sup> PSOC meeting, GM(Telecom) informed that he will submit the status report to SLDC.

**SLDC /Telecom may deliberate the status.**

**D.3: Despatch Scheduling for RE Generation.**

At present about 19 Nos of RE generating plants having 340 MW installed capacity operating in the State. None of the plants are furnishing day ahead schedule except 2-3 Nos. In absence of day ahead Declared injection Schedule, there is a substantial mismatch of day ahead generation planning. Also SLDC is not aware of the PPA made by GRIDCO with the Solar plants. As such, it is requested that GRIDCO may forward the copy PPA made with the Solar plants and insist the plants to submit day ahead DC in respect of their plants to SLDC in 15 minute blocks.

In the 139<sup>th</sup> PSOC meeting GRIDCO assured to forward the PPAs before next PSOC meeting also to write all the Solar stations to submit day ahead injection schedule to SLDC. The said documents are yet to be received by SLDC.

In the 140<sup>th</sup> PSOC meeting, SLDC stated that the PPAs made by GRIDCO with Solar plants have been received by SLDC. GRIDCO was requested to ask the Solar plants to forward their day-ahead generation schedule to SLDC.

In the 141<sup>th</sup> PSOC meeting it was decided that GRIDCO shall convene a meeting with solar developer to discuss the issue of day ahead scheduling of solar power injection.

In the 143<sup>rd</sup> PSOC meeting, GRIDCO informed that all RE generators have been informed to submit the day ahead schedule to SLDC since February 2020. PSOC advised SLDC to further pursue the matter with RE generators.

**SLDC may update.**

**D.4. Replacement/Rectification of Billing meters**

It has been observed that some billing meters used for energy accounting purpose are time desynchronized frequently. In the new series of meter, “FEEDER SUPPLY FAILED” event is not logged in the dumped files which is a crucial requirement for billing and analysis purposes.

**SLDC/O&M may deliberate**

**D.8: Non-receipt of weekly meter dumped data of 220kV TTPS-TSTPP line**

The weekly dumped data of 220kV TTPS-TSTPP line has not been received since long and same was included as an agenda item in last CCM meeting of ERPC.

**SLDC/ TTPS may deliberate**

**D.12: Non-intimation to SLDC for 400kV Bus-II shutdown by Vedanta**

On 09<sup>th</sup> March 2022, the shutdown of 400kV Bus-II was availed by Vedanta without any intimation to SLDC. Switching off / availing shutdown of 400kV element without prior intimation/ approval from SLDC/ERLDC is gross violation of OGC and IEGC norms.

**SLDC/ Vedanta may deliberate**

## PART E: OPERATIONAL PLANNING

### E.1: Summer Preparedness

All the generators may update the status of any planned outages in the month of April, May, June-2022 so as to prepare the LGBR for the upcoming summer.

### **OHPC/OPGC may update**

### E.2: Commissioning status of new Transmission elements.

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

Sl. No	Name of the Project	Expected month of Charging	DISCOM	33kV Take off Planning by DISCOMs ( 4 Nos. Feeder Bay)
1	220 kV Jayanagar-Jeypore(PG) 2nd DC line			
2	132/33kV CDA (Brajabiharipur) Cuttack S/s	Oct-20	TPCODL	
3	132/33kV Pratapsasan S/s	Oct-20	TPCODL	
4	132/33kV Gandia S/s	Feb-21	TPCODL	
5	132/33kV Rajnagar S/s	Mar-21	TPCODL	
6	220/33kV Telkoi S/s	Dec-20	TPCODL/TPNODL	
7	132/33kV Maneswar S/s	Oct-20	TPWODL	
8	220/33kV Deogarh S/s	Nov-20	TPWODL	
9	132/33kV Bhatli S/s	Dec-20	TPWODL	
10	132/33kV Hirakud S/s	Feb-21	TPWODL	
11	132/33kV Birmaharajpur S/s	Mar-21	TPWODL	
12	132/33kV Thuapalli S/s	Mar-21	TPWODL	
13	132/33kV R Udayagiri S/s	Oct-20	TPSODL	
14	220/33kV Govindpalli S/s	Oct-20	TPSODL	
15	132/33kV G Udayagiri S/s	Dec-20	TPSODL	
16	220/132/33kV Gunupur S/s	Jan-21	TPSODL	
17	132/33kV Nawrangpur S/s	Feb-21	TPSODL	
18	132/33kV Boriguma S/s	Mar-21	TPSODL	

The status of 33 kV bays and takeoff arrangement by DISCOMs are as tabled

Sl no	Name of Project	DISCOM	Voltage	Date of Charging	Bays Available	Bays utilised by DISCOMs	Bays Available for utilisation by DISCO Ms	Utilization in %
1	Konark	TPCODL	132/33	29.06.2015	4	1	3	25%
2	Samagara	TPCODL	220/132/33	14.07.2015	5	2	3	40%
3	Marshaghai	TPCODL	132/33	16.10.2015	5	2	3	40%
4	Atri	TPCODL	220/132/33	24.02.2016	4	0	4	0%
5	Mania	TPCODL	132/33	31.03.2016	5	2	3	40%
6	Infocity-II	TPCODL	220/33	23.12.2016	6	3	3	50%
7	Chandaka - B	TPCODL	220/132/33	28.03.2017	4	0	4	0%
8	Khajuriakata	TPCODL	132/33	28.03.2017	5	2	3	40%
9	Tirtol	TPCODL	132/33	05.01.2018	5	2	3	40%
10	Dhenkikote	TPCODL	132/33kV	24.02.2018	5	2	3	40%
11	Khuntuni	TPCODL	132/33	31.05.2018	5	2	3	40%
12	Narasinghpur	TPCODL	220/33	24.08.2018	5	3	2	60%
13	Unit-8	TPCODL	132/33	01.04.2019	5	3	2	60%
14	Kharagprasad	TPCODL	132/33kV	31.07.2019	1	0	1	0%
15	Mancheswar B	TPCODL	132/33kV	28.02.2020	5	0	5	0%
16	Goda	TPCODL	220/132/33kV	29.05.2020	5	0	5	0%
17	Satasankha	TPCODL	132/33kV	25.06.2020	5	0	5	0%
18	Malkangiri	TPSODL	220/33	27.03.2017	4	2	2	50%
19	Muniguda	TPSODL	132/33	29.11.2017	4	0	4	0%
20	Podagada	TPSODL	132/33	09.02.2018	4	2	2	50%
21	Chikiti	TPSODL	132/33	25-02-2019	5	2	3	40%
22	Aska New	TPSODL	220/132/33	31-03-2019	5	1	4	20%
23	Kasipur	TPSODL	220/33	30-06-2019	4	1	3	25%
24	Patangi	TPSODL	132/33	15-09-2019	4	2	2	50%
25	Bangiriposi	TPNODL	132/33	03-10-2016	4	2	2	50%
26	Bhogarai	TPNODL	132/33	28-03-2017	4	1	3	25%
27	Udala	TPNODL	132/33	16-09-2018	5	3	2	60%
28	Keonjhar	TPNODL	220/33	31-12-2018	5	2	3	40%
29	Chandbali	TPNODL	132/33	20-02-2019	4	1	3	25%
30	Betanati	TPNODL	132/33	19-04-2019	4	2	2	50%
31	Agarpada	TPNODL	132/33	30-08-2019	5	1	4	20%
32	Jayapatana	TPWODL	220/132/33	11-07-2019	4	2	2	50%
33	Kantabanji	TPWODL	132/33	28-02-2018	5	2	3	40%
34	Baragarh New	TPWODL	220/132/33	21-03-2018	1	0	1	0%
35	Ghens	TPWODL	132/33	13-04-2018	4	4	0	100%
TOTAL					154	54	100	35%

In the 140<sup>th</sup> PSOC meeting AGM (Const.) stated that 2 Nos. 40 MVA Transformers have been provided in the proposed Maneswar S/S. WESCO may divert all loads from Chipilima PH S/S to

Maneswar S/S to make free the Chipilima PH S/S. SLDC suggested to instruct and impart training the executives deployed at the newly charged S/Ss for extraction of the meter data and forward to SLDC. DGM (Const.) suggested that SLDC may write a letter to CGM (Const.) in this regard.

In the 141th PSOC meeting WESCO stated that due to shortage of funds they cannot construct 33 kV line. It was suggested that CGM (Const) may convene a meeting to review the take-off arrangement.

In the 143<sup>rd</sup> PSOC meeting, TPCODL informed that they have prepared and submitted the report in this regard to the MD, OPTCL. NESCO informed that out of 31 nos. of bays 12 nos. have already been utilized and another 9 nos. are under progress and for others the estimation is being prepared. SLDC requested all the DISCOMs to share the updated plan and report with CGM(Const.), OPTCL and SLDC as well.

**Construction wing( OPTCL) / DISCOMs may deliberate**

#### **E.2: Major Events in the month of February'22**

1. On Dt. 02.02.22 at 17:45 Hrs -18MW TG-2 at M/S Adhunik Metaliks Limited, Kuarmunda, Rourkela synchronized with OPTCL system.
2. On Dt. 09.02.22 at 13:00 Hrs- 40MW Unit at M/S SMC Power Generation Limited, Jharsuguda synchronized with 220kV Budhipadar line of OPTCL system
3. On Dt. 18.02.22 at 19:26 Hrs -132kV feeder bay extension at 220/132/33kV Grid S/s, Jayanagar for 132kV Jayanagar-Sunabeda DC line.

**Members may note**

#### **E.3: Outage of major transmission Elements during the month of February -2022. (above 10 hrs).**

Sl No	Transmission line / element	Tripping Dt/time	Restoration Dt/time	Reason
1	220kV Jayanagar-Upper Kolab-II	01.02.2022 18:11	02.02.2022 12:59	Snapping of B-phase conductor in S/Y
2	132kV Katapalli-Bargarh	01.02.2022 22:10	03.02.2022 13:55	Burst of R ph C.T
3	132kV Burla-Lapanga ckt-I	15.02.2022 22:50	16.02.2022 16:54	DP Z-I 5.6km 2.8KA
4	220kV Jaypatna-Indravati	16.02.2022 21:30	18.02.2022 15:40	damaged of R-phase conductor between loc no-41&42
5	132kV Budhipadar-Kalugaon fdr	23.02.2022 21:11	24.02.2022 14:23	tripped at Kalugaon on DP Z-I B-E 77.49km 1.293KA
6	400/220kV 315MVA ICT-I of Indravati PH	24.02.2022 19:39	12.03.2022 05:06	Buchholz Relay operated

**O&M may discuss**

#### **E.4: Prolonged outage of Transmission elements**

Sl. No.	Transmission line/element	Date of outage	Reason	Expected date of restoration
1	220/132kV 100MVA Auto TRF-I at Joda	21.06.2021	Replacement of old 100MVA GE make Auto TRF by new 160MVA T&R make Auto TRF.	
2	400kV Tie Bay of ( 400kV Pandiabibili-1 and future) at New Duburi	16.08.2021	Construction of foundation, erection, testing and commissioning of CT,	

			CB & Isolator for installation of new 125MVAR Bus Reactor at New Duburi end	
3	220kV side CB of 315MVA, 400/220kV ICT-II Bay (212) at at New Duburi	25.01.2022	Replacement of old/defective 220kV ABB make SF6 CB with New 220kV GE make SF6 CB.	
4	220kV Samangara-Pandiabili ckt-I & II	03.05.2019	Breakdown due to extremely severe cyclonic storm "FANI"	
5	100MVA Auto-II at Duburi	08.03.2020	Tripped on Buchholz Alarm & Diff. protection	
6	315MVA ICT-II at Meramundali	21.02.2021	Completely damaged due to fire	
7	100MVA Auto- III at Meramundali	22.12.2021	Oil leakage from 220kV side R-Ph bushing	
8	400/220 kV, 315MVA ICT-I of Indravati PH	24.02.2022	Y- Ph transformer completely damaged due to fire.	

**O&M may discuss**

#### **E.5: Review of Outage Program of State Generators for the month of April'22:**

Tentative Outage program for State Generators for the month of **April'22**

Sl.	Station	Unit	Period	Remarks
1	Balimela	# 1	05.08.16 to continue	Under R&M
		# 5	24.01.22 to 15.04.22	Fault in PMG
2	Rengali	# 3	26.11.21 to 15.03.22	Thrust bearing problem

**OHPC may deliberate**

#### **E.6: Generation Program for the month of March'22.**

Generation schedule for the month of March'22 furnished by OHPC are given below.

Name of Hydro Gen. Station	Generation Program (MW) Mar'22	Reservoir Level as on 28.02.2022	Reservoir Level as on 28.02.2021	MDDL	High Flood Reservoir Level
HPS-I, Burla	50	624.12 ft.	618.65 ft.	590 ft.	630 ft.
HPS-II, Chiplima	35				
Balimela	155	1479.70 ft.	1484.6 ft.	1440 ft.	1516 ft.
Rengali	90	121.28 mtr.	116.93 mtr.	109.72 mtr.	123.5mtr
U.Kolab	80	850.03 mtr.	849.79 mtr.	844 mtr.	858 mtr.
U. Indravati	75	631.48 mtr.	635.82 mtr.	625 mtr.	642 mtr.
MKD (O/D)	30	2714.6 ft.	2737.65 ft.	2685 ft.	2750 ft.
<b>TOTAL</b>	<b>515</b>				



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 April'2022.**

Sl. No	Discom	Average	Peak
1	TPCODL	1100	1290
2	TPWODL	1000	1300
3	TPNODL	770	900
4	TPSODL	500	600
<b>5</b>	<b>Total Discom</b>	<b>3370</b>	<b>4090</b>
	<b>System Loss &amp; others</b>	<b>100</b>	<b>150</b>
	<b>Total Demand</b>	<b>3470</b>	<b>4240</b>
<b>Availability</b>			
1	Hydro	493	1020
2	State Thermal	729	760
3	IPP, small hydro &RE	357	297
4	ISGS share (including OA& purchase)	1948	1948
5	CGP support (OA)	250	250
6	<b>Total availability</b>	<b>3777</b>	<b>4275</b>
7	<b>Surplus / Deficit</b>	<b>307</b>	<b>35</b>

**Members may discuss.**

**PART F: Issues raised by DISCOMs**

**F.1. Common Agenda**

**1. Information to the DISCOMs for the load curtailments by SLDC:**

Load curtailments are carried out at 33kV feeders by OPTCL grid substations on the instruction of SLDC without any consent or information to the DISCOMs It is requested that SLDC should intimate and consult PSCC(Power System Control Centre) in the event of load curtailment with reference to the 33kV feeders- the quantum of load shedding and the expected duration of load curtailment in the event of grid contingency to PSCC of DISCOMs.

**DISCOMs/ SLDC may deliberate**

**2. RVDU (Remote Visual Display Unit) data suspect at many circuits**

The power scheduling activity, the day ahead schedule is given by utility and the intraday actual drawl is monitored based on the Remote Visual Display unit (RVDU) drawal data visible on the screen which is analogous to the RVDU data at SLDC, Bhubaneswar. We have been observing significant gap to the tune of 30 to 40 MW per 15min time block for the drawal data at RVDU display and the actual drawl data as per the SLDC one minute readings. This impacts scheduling accuracy as well as gives the impression of huge under drawal / over drawl by the discom. There is no alternate mechanism provided to the utility by SLDC to monitor and control the discom actual drawl vis-à-vis their scheduled drawl. The situation merits urgent attention by the SLDC. It is submitted that SLDC should arrange the rectification in the RVDUs as an immediate measure.

**DISCOMs/ Telecom may deliberate**

**3. Schedule Vs Actual Drawl of the distribution Company should be displayed at SLDC website**

In order to monitor the actual drawl and maintain accurate scheduling, it is requested that SLDC should make available the schedule vs actual drawl position of the Odisha discoms at their website for accurate and faster response by the distribution company.

**DISCOMs/SLDC may deliberate.**

#### **4. Open Access consumers drawl is not available to the discom in intraday resulting in poor scheduling:**

The day ahead drawl schedule and the intraday revisions in drawl schedule uploaded by SLDC does not reflect intraday change in open access consumer's demand. All variations in the open access consumers drawl from open access and RTM during the day are adjusted only the following day post facto. The open access consumers do not share their revisions in drawl schedule with the distribution company. In the absence of the information regarding open access consumer's intraday drawal variations, the distribution company is forced to revise its schedule based on assumptions and conjectures so as to reduce its overdraw or underdraw. It is therefore requested that SLDC should ensure that the schedule revisions by the open access consumers in the intraday is updated immediately in the revisions so that the distribution company may adjust its drawal accordingly. Alternatively SLDC may direct the open access consumers to share their drawl schedule with the respective distribution company whenever any change is done by them. In the absence of such a mechanism, the distribution companies would at huge disadvantage and will not be able to discharge their forecasting and scheduling function efficiently.

**SLDC/DISCOMs may deliberate.**

#### **5. Planned Outages of OPTCL Grids impacting discom drawl should be intimated to PSCC only as a single nodal agency:**

Currently the outages from OPTCL grids are sent to the respective individual divisions of the discoms for the consent and information. In order to streamline the outage process, it is submitted that all planned and emergency outages from the OPTCL grids impacting discom drawl should be intimated to Power System control only as a single point of contact for the discom. It shall be the responsibility of the discom power system control to arrange consent and inform OPTCL / SLDC for the respective proposed outage.

**DISCOMs / SLDC may deliberate.**

#### **F.2. Agenda of TPCODL**

1. Station Consumption of Global Grid is being included in TPCODL drawal even after bringing this to the notice of GRIDCO and SLDC. This may be corrected.
2. Main meter and Check meter are being used for the purpose of billing without any standard methodology, also Transformer HT meter at times are being considered. Same may be standardized.
3. Facilitating ICCP connectivity from SLDC to PSCC TPCODL for better monitoring and control of its network.
4. Transmission System Elements remaining out for a prolonged period: both the 132 kV sources to 132 /33 kV Mancheswar B GIS are out since 13.2.2022 due to which two of 33 /11 Primary Substations are on Single 33 kV Source, 132/33 kV 40 MVA Trf. 2 at Unit 8 GIS & 33 kV OG Breaker of Unit 8 Feeder 2 is out since long.
5. RVDU issues arising frequently may please be looked into like Aarti Steel communication down since long.
6. Credit of Units to be provided for RSB Casting by SLDC for export of units by TPCODL to OPTCL: 132/33 kV Mania (Tangi) Grid communicated through letter TPCODL /PSCC/21-22/04/02/01 dtd.4.02.2022 to SLDC.

**GRIDCO/TPCODL/ SLDC may deliberate.**

#### **F.3. Agenda of TPNODL**

##### **1. Outages from OPTCL Grids should be planned considering the load back feeding through alternate bus at GSS:**

It is submitted that currently the maintenance outages from OPTCL GSS are often planned without considering the load back feeding options. As a result mostly the maintenance outages from GSS leads to complete loss of power in the distribution area during the schedule period. Considering that currently there is very few interconnection in the distribution network to enable load shifting, the end consumers suffers poor reliability. It is therefore submitted that OPTCL should ensure that during planned outages no load is effected wherever there is provision to shift load on the alternate bus.

**TPNODL/ SLDC may deliberate.**

#### **F.4. Agenda of TPSODL**

1. High voltage problem in TPSODL network due to unscheduled power of Saptadhara of mini OHPC.
2. Planned outages of OPTCL to be approved by SLDC three days prior to scheduled date and same to be intimated to PSCC to inform the EHT Consumers to minimize their production loss and revenue impact of DISCOM.
3. DISCOM to be allowed to raise provisional bill to open access customer and adjustment in next month as final schedule (MU drawn) of Open access consumer is not received on 1<sup>st</sup> day of every month.
4. TPSODL drawl from Jaypatna grid s/s should be clarified as at present TPWODL & TPSODL drawl measured at Autotransformer commonly.
5. Day-ahead entitlement should be uploaded in the SLDC website by 11AM everyday so that DISCOM can be able to give their Day-ahead schedule request within one hour of receipt of Entitlement.

**GRIDCO/ TPSODL/ SLDC may deliberate.**

**Undertaking / Self Certification by Owner under Regulation 43(7) of CEA (Measures relating to safety and electric supply) regulations 2010 For Replacement due to Failure**

(to be duly signed by Station Incharge/Asset Owner/CE SLDC on a Letter Head)Ref.

No:

Date:

To,

The Executive Director,

\_\_\_\_\_ Regional Load Despatch Centre,

\_\_\_\_\_

\_\_\_\_\_

**Sub:** Charging of [Element Name] with replaced [new CT/CVT/PT/LA/Isolator/CB. with ratings/Towerwith loc] of [Asset Owner] at [Substation Name]

Sir,

The failure was observed on [old CT/CVT/PT/LA/Isolator/CB..... with ratings/Tower(loc)] of [Element Name] at [Substation Name] due to [reason] on [Date]. The faulty [old CT/CVT/PT/LA/Isolator/CB..... with ratings/Tower(loc)] of [\_\_\_\_\_] make has been replaced by [Asset Owner] on [Date] with [new CT/CVT/PT/LA/Isolator/CB with ratings/ Tower(loc)] of [\_\_\_\_\_] make. I hereby undertake that

1. The said (new CT/CVT/PT/EMVT/LA/CB.....) is not a new element to be charged for first time and is a replacement element.	strike through if not applicable
2. We have complied to CEA Measures relating to Safety and Electric Supply 2010 (as amended) and all statutory clearances have been obtained for the said replacement.	
3. All protection systems are in place.	
4. There is no change in CTR/PTR wrt metering and telemetry. Or There is change in CTR / PTR wrt metering and telemetry. Necessary activities of incorporation of changes at SLDC and / or RLDC has been done.	
5. There is no change in the length of the line after works of transmission line. Or After completion of the works, the length of the transmission line is increased by _____m.	
6. There is no change in the count of the tower after works of transmission line. Or After completion of the works, _____Nos. of additional towers are erected in the transmission line. New erected towers are _____( tower identification numbers)	
7. There is no change in the route alignment of transmission line. Or After completion of the works, route alignment of transmission line is changed.	
8. There is no requirement of change in protection coordination at main and adjacent substations after completion of the works of the transmission line. Or Necessary protection coordination at main and adjacent substations after completion of the works of the transmission line is carried out.	
9. PTCC clearance has been obtained during the first time commissioning of the line and since only minor changes/modification has only been carried out and as such the modification is within the limit as per the Regulation and the norms specified in sec 160 of the Electricity Act,2003.	

May kindly allow the charging.

Thanking you,

Yours faithfully,

Signature and stamp of Station  
Incharge / Asset owner  
with Station Name

**Undertaking / Self Certification by Owner under Regulation 43(7) of CEA (Measures relating to safety and electric supply) regulations 2010 For Diversion of TL / Tower Height modification**

(to be duly signed by Station Incharge/Asset Owner/CE SLDC on a Letter Head)Ref.

No:

Date:

To,

The Executive Director,

\_\_\_\_\_ Regional Load Despatch Centre,

\_\_\_\_\_

\_\_\_\_\_

**Sub:** Charging of [Transmission line Name] after diversion by [Asset Owner]

Sir,

A diversion / modification of the [Name of Transmission line] due to [reason] was approved. The activity of [Name of the transmission line] diversion is under execution by [Name of the asset owner] from [date of starting of outage]. In regard to the aforementioned diversion, I hereby undertake that

1. The said (Name of Transmission line) is not a new element to be charged for first time.	strike through if not applicable
2. We have complied to CEA Measures relating to Safety and Electric Supply 2010 (as amended) and all statutory clearances have been obtained for the said diversion.	
3. All protection systems are in place.	
4. There is no change in the length of the line after works of transmission line. Or After completion of the works, the length of the transmission line is increased by _____ m.	
5. There is no change in the count of the tower after works of transmission line. Or After completion of the works, _____ Nos. of additional towers are erected in the transmission line. New erected towers are _____ (tower identification numbers)	
6. There is no change in the route alignment of transmission line. Or After completion of the works, route alignment of transmission line is changed.	
7. There is no requirement of change in protection coordination at main and adjacent substations after completion of the works of the transmission line. Or Necessary protection coordination at main and adjacent substations after completion of the works of the transmission line is carried out.	
8. PTCC clearance has been obtained during the first time commissioning of the line and since only minor changes/modification has only been carried out and as such the modification is within the limit as per the Regulation and the norms specified in sec 160 of the Electricity Act, 2003.	

May kindly allow the charging.

Thanking you,

Yours faithfully,

Signature and stamp of  
Station Incharge / Asset owner  
with Station Name

**Undertaking / Self Certification by Owner under Regulation 43 of CEA (Measures relating to safety and electric supply) regulations 2010 for **Anti Theft Charging****

*(to be duly signed by Station In charge/Asset Owner/CE SLDC on a Letter Head)*

Ref. No:

Date:

To,

The Executive Director,

\_\_\_\_\_ Regional Load Despatch Centre,

\_\_\_\_\_

**Sub:** Anti Theft Charging of [length] km length of [Transmission Line Name] from [Substation Name] end

Sir,

With reference to the anti theft charging proposal of [Transmission Line Name] transmission line, Iherby undertake that:

The said [ <u>Transmission Line</u> ] is an under construction transmission line and is not terminated at both the ends. To prevent theft during construction, anti theft charging from [ <u>name of the substation</u> ] end is required.
or
The said [ <u>Transmission Line</u> ] has already been First time charged. Due to failure of towers in [ <u>details of transmission section</u> ] section of transmission line, the line has lost completeness. To prevent theft during repair and restoration activity anti theft charging from [ <u>name of the substation</u> ] end is required.
We have complied to all provisions of CEA Measures relating to Safety and Electric Supply Regulations 2010 (as amended). Approval of Electrical inspector statutory clearances shall be obtained by asset owner after completion and termination of the line at bays / substation at both ends and shall be submitted prior to charging/energization of the complete line.
3. All protection systems are in place. Necessary protection settings and protection coordination at main and adjacent substations has been done.
4. The length of anti-theft charged section is _____ km.
5. Anti-theft charged section of the said line will cover _____ Nos. of towers. From location _____ to _____ ( tower identification numbers)
6. All concerned parties, asset owners of both ends and Transmission line sections are already informed in writing for anti-theft charging of the said line section.
7. All the men and materials from the line are removed. All safety measures are taken for anti-theft charging of the said line.

May kindly allow the proposed anti theft charging.

Thanking you,

Yours faithfully,

Signature and stamp of Station  
Incharge / Asset owner  
with Station Name

