

# STATE LOAD DESPATCH CENTER

## MINUTES FOR 65<sup>th</sup> MEETING Of State Level Co-ordination Forum

Date: 10/03/2022

Venue:SLDC

### ITEM No:1.CONFIRMATION OF THE MINUTES OF 64<sup>th</sup>SLCF MEETING HELD ON 01.10.2021.

The minutes were circulated vide memo no: SLDC/How/109/2021-22/528(1-37) dated 08/10/2021.

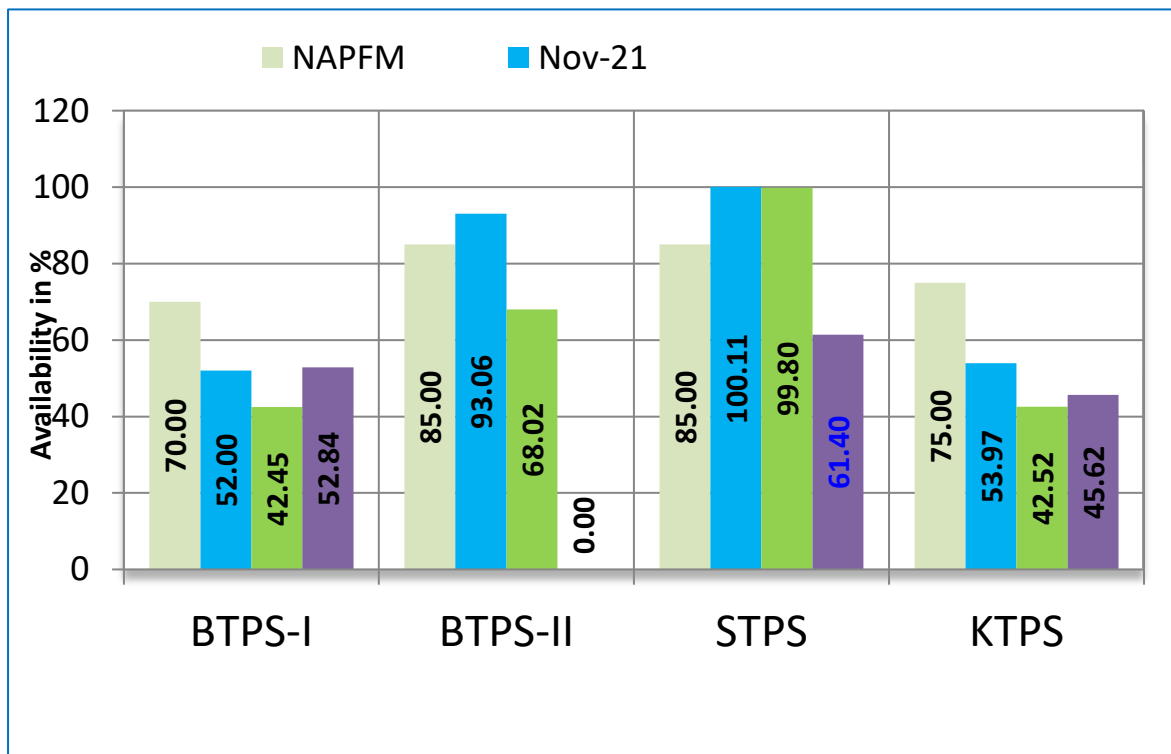
The minutes of the 64<sup>th</sup> SLCF meeting was taken as accepted.

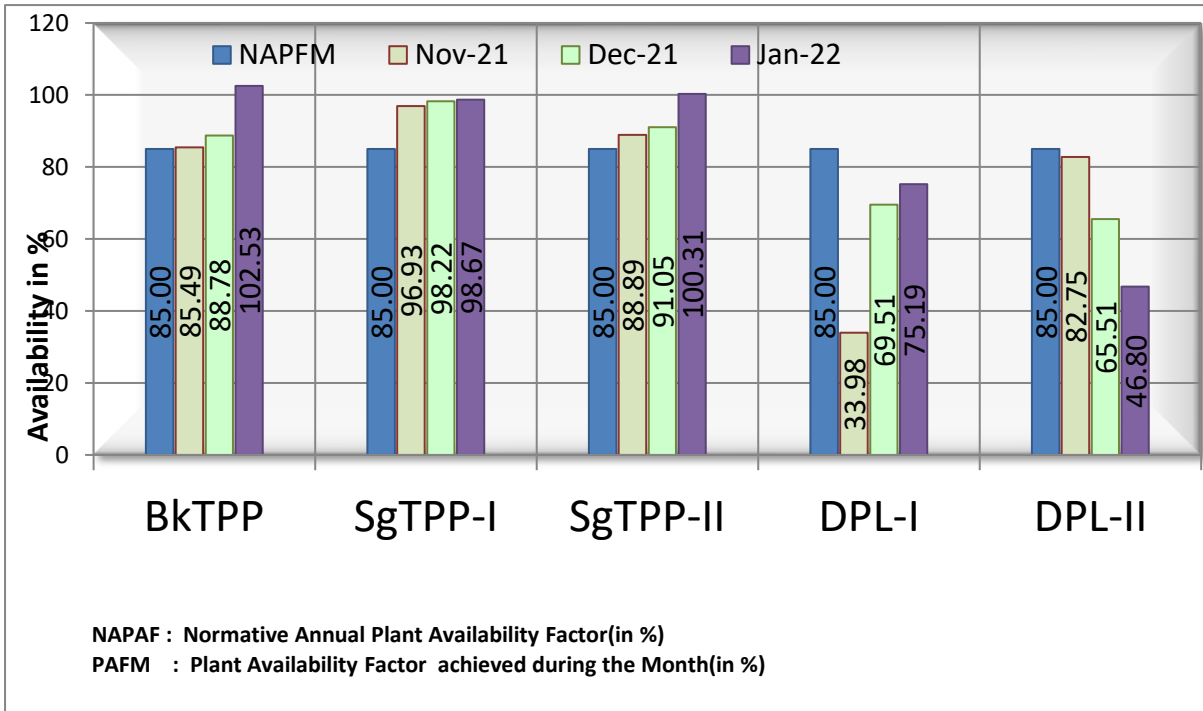
### ITEM No: 2.REVIEW OF STATE GRID PERFORMANCE:

#### Power point presentation on grid performance for the month of November-21, December-21 and January-22.

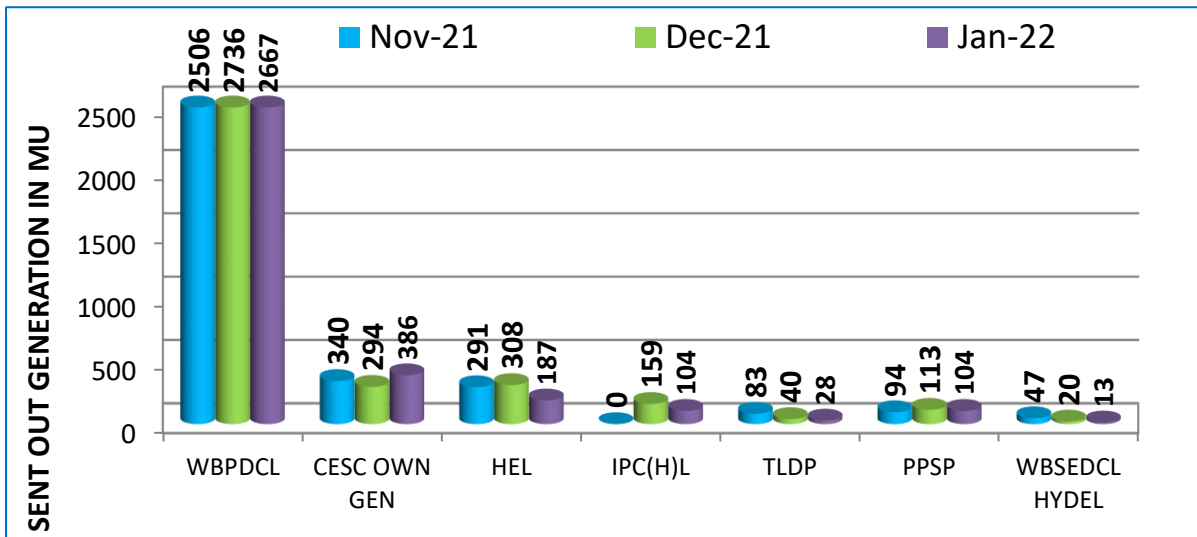
Divisional Engineer, SLDC made a Power point presentation on the grid performance based on operational statistics for the period of November-21, December-21 and January-22. A critical analysis on the November-21, December-21 and January-22 grid performance reveals the following:

2.1 Availability of WBPDC power plants in terms of \*NAPAF & \*PAFM for the month of November-21, December-21 and January-22 are as follows:

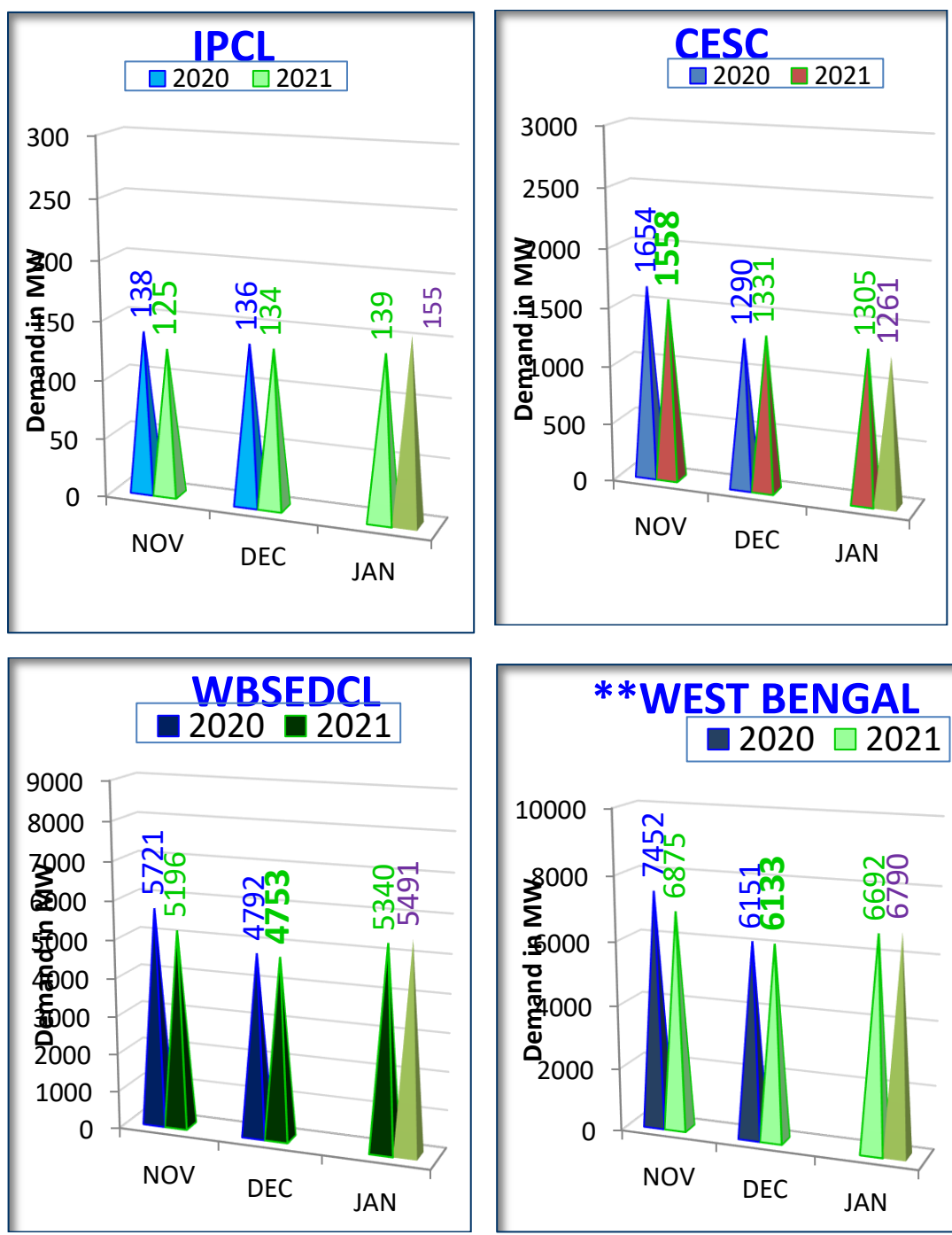




**2.2 Sent out Generation of generating stations (in MU) during November-21, December-21 and January-22.**

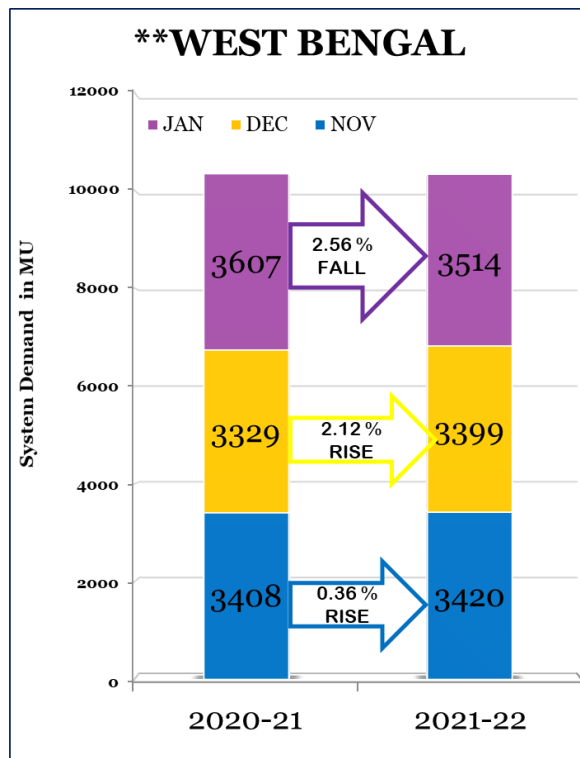
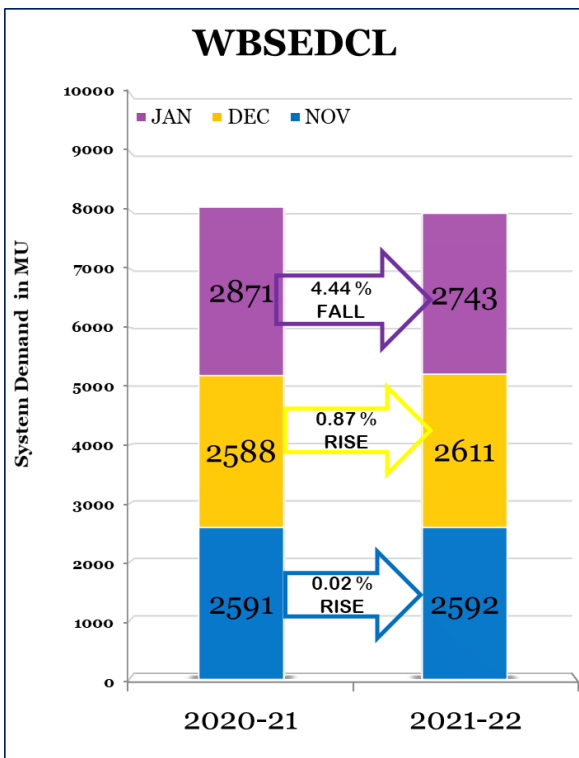
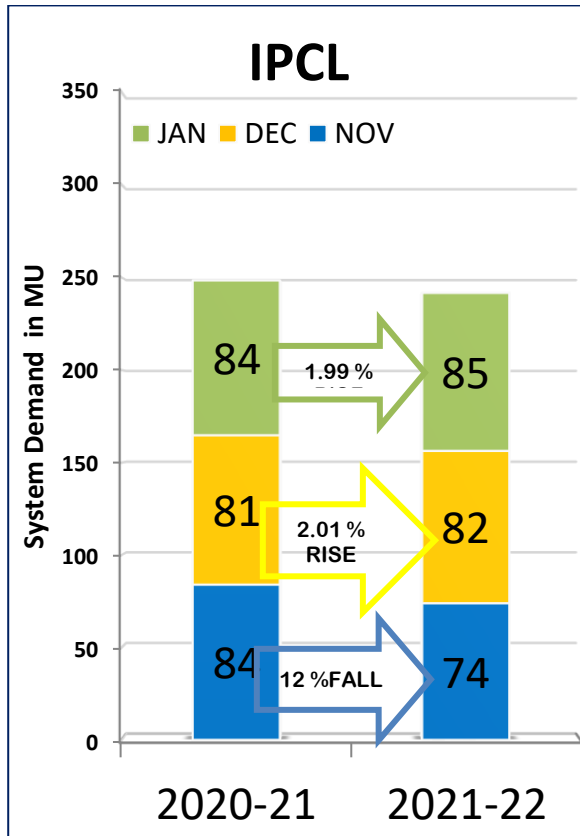
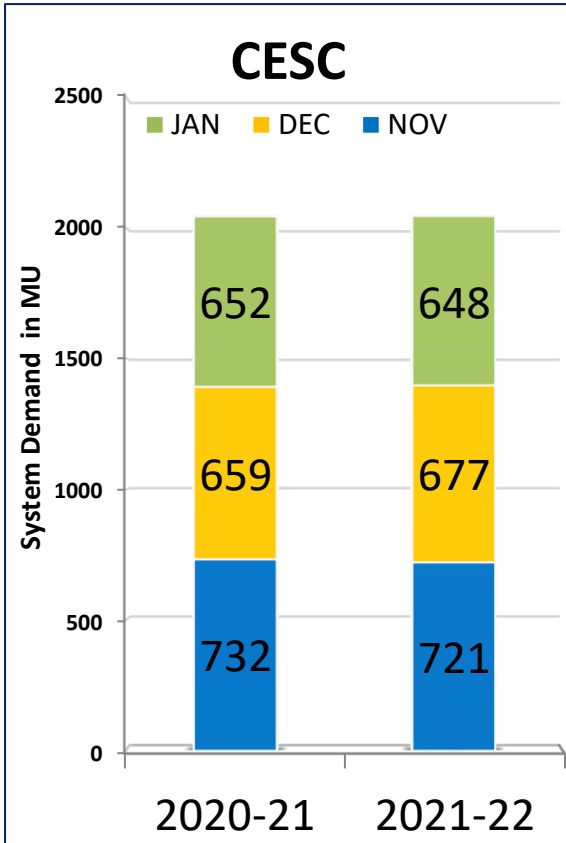


2.3 The Maximum demand (potential) in MW and their time of occurrence during **November-21, December-21 and January-22** were as follows:

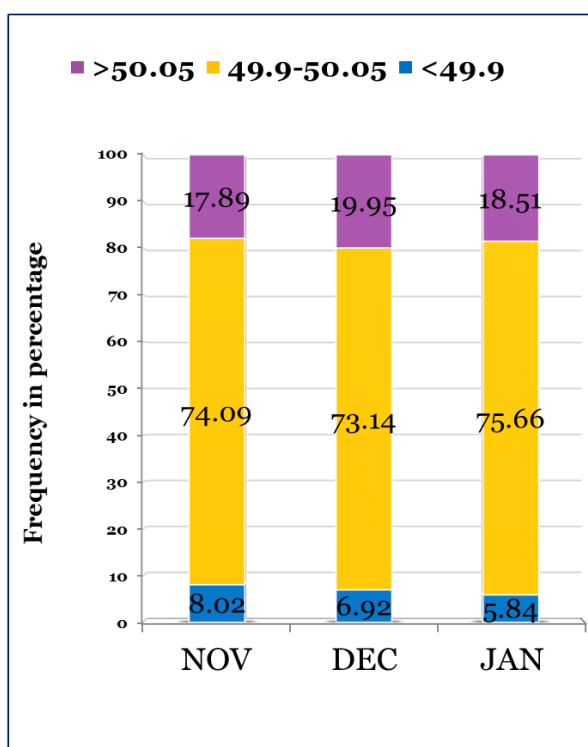


- **CESC peak demand 1558 MW, on 03.11.21 at 18.00 hrs.**
- **IPCL peak demand 155 MW, on 28.01.22 at 10.00 hrs.**
- **WBSEDCL peak demand 5491 MW, on 21.01.22 at 19.00 hrs.**
- **WEST BENGAL peak demand 6875 MW, on 03.11.21 at 18.00 hrs**

2.4 The system demand (potential) in MU during November-21, December-21 and January-22 were as follows:



The frequency profile during **November-21, December-21 and January-22** were as follows:



#### MAXIMUM FREQUENCY

NOVEMBER-21 : 50.27 HZ. on 28.11.21

DECEMBER-21 :50.34 HZ. on 20.12.21

JANUARY-22 :50.28 HZ. on 16.01.22

#### MINIMUM FREQUENCY

NOVEMBER-21 : 49.63 HZ. on 08.11.21 AND  
17.11.21

DECEMBER-21 :49.62 HZ. on 31.12.21

JANUARY-22 :49.65 HZ. on 15.01.22

The new Transformers, EHT lines and equipments commissioned during this period were also deliberated by D.E, SLDC.(List of new Transformers, EHT lines & equipments are shown in Annexure-1).

### ITEM No. 3. IMPORTANT GRID INCIDENTS:

1. At Rishra S/S:On 30.01.2022, due to LBB operation at 132kV system, 160MVA Tr#1, 2, 3, 50MVA Tr#1, 2, 3 & 4, Old Chanditala D/C, Bighati D/C, Liluah, HM-Dankuni tripped at 14:56Hrs, CESC load loss at Rishra point 74MW, WBSEDCL load loss of 33MW occurred from 14:56Hrs to 15:10Hrs

#### **Deliberation:**

No representative of WBSETCL Tr O & M was present at the meeting.

CE, SLDC deliberated that the LBB relay mal-operated at Rishra 220 KV SS. There was an event of DC system failure. During the time of restoration of the DC the LBB relay mal-operated resulting in the 132 KV system tripping and load losses.

#### **Load Loss:**

- i) **Rishra (WBSEDCL)= 33 MW from 14.56hrs to 15.10 hrs.**
- ii) **CESC = 74 MW from 14.56hrs to 15.10 hrs.**

2. At KTHP: Due to bus differential operation at 132KV level all feeders and transformers tripped at KTHP end at 21:40hrs on 06.02.2022. This resulted power interruption at Kolaghat around 42MW from 21.40 hrs to 22.22 hours.

**Deliberation:**

Representative of KTPP deliberated that at 21.40 hrs of 06.02.22 all the 220/132KV Auto transformers along with all 132KV circuits got tripped with operation of Bus Differential protection(B-phase)(fault current 37 KA). Attempt to energize the KTPP 132KV bus was made through KTPP-Uluberia ckt but CB at KTPP end did not operate. Power was restored through 220/132 KV Auto transformer 1 & 2. After inquiring with General Electric(GE) it was reported that the relay mal-operated due to bit slip.

ACE-I, SLDC, stated that KTPP is the lone source 132KV Kolaghat SS. Therefore, such incidences in KTPP renders Kolaghat SS powerless for a significant amount of time. He added that the alternate source of DVC is not reliable due to lack of flexibility in the internal DVC EHT network. It is of prime importance so that such occurrences at KTPP is mitigated.

Representative of KTPP stated that GE (vendor) has advised to upgrade the relay firmware from existing 7.81 to 8.2 so that these type of secondary side spurious operations are not repeated.

Representative of WBPDCCL stated that a 132KV bus sectionalizer is being installed at KTPP so that the option of bus segregation is present during such faults.

ACE-I, SLDC, added that KTPP may consider shifting of 132KV Ktp-p-Kolaghat line so that each 132KV Kolaghat bay at KTPP is on either side of the bus section breaker after introduction of bus sectionalizer. Of-course in addition to that shifting of transformer connectivity may be required to put 2 transformers towards the more loaded side of the bus and one transformer to the other side. All these proposals are subject to availability of space which can be determined only through site visit. The forum advised KTPP to take up the matter with WBSETCL to implement the bay shifting works.

**Load loss:**

- i) **Kolaghat 132KV SS: 42 MW from 21.40 hrs to 22.20 hrs**

**ITEM No: 4. OPERATIONAL PLANNING:**

**(a) ANTICIPATED POWER SUPPLY POSITION FOR THE MONTH OF NOVEMBER 2021, DECEMBER 2021 AND JANUARY 2022.**

Description	APRIL 2022	MAY 2022	JUNE 2022
WBPDCCL S/O Generation	3760	3760	3600
WBSEDCL Own Maximum Demand	7440	7410	7600
CESC Maximum Demand	2080**	2260**	2330**
CESC Own gen. + HEL (S/O)	830 + 540	830 + 540	830+540

DPL Generation Availability (GROSS)	440	440	440
IPCL demand connected to J.K.Nagar system	155*	155*	155*

**\*\* : In view of LGBR submitted by CESC for summer months, SLDC has highlighted that in view of apprehended network congestion, it may be difficult to deliver the amount CESC is desiring to draw through WBSETCL network for the month of May, June 2022 subject to different network / generation conditions. However, after explaining difficulties to deliver power beyond certain limit at different points, SLDC assured that they will exert maximum possible effort to deliver maximum possible quantum at different points of connection between CESC and WBSETCL.**

**SLDC has also emphasized on the need of 400KV New-Lakshmikantapur 400KV SS to meet the forthcoming demand of CESC and WBSETCL(for south 24 PGS). After commissioning of N.Lkpur , the room available at Subhasgram(PG) may be used to allow some more power to CESC through Kasba point. Hence it is requested to CESC to take up the matter with WBSETCL for faster action towards settlement of all issues regarding LILO proposal of HEL-Subhasgram(PG) 400KV DC at New Lakshmikantapur SS.**

**\* : IPCL representative was not present in the meeting , therefore the maximum drawal of IPCL for the period of November-21 to January-22 is being considered.**

**(b) SETTLEMENT OF SHUT DOWN PROPOSALS FOR THE MONTH OF APRIL 2022, MAY 2022, JUNE 2022. i.r.o GENERATING UNITS, TRANSMISSION LINES AND OTHER EQUIPMENTS.**

UNIT	DURATION	REMARKS
KTPP Unit#4	04.06.22 to 13.06.22	The forum requested WBPDCCL to review the timeline of the shutdowns. SLCF forum declined to allow any pre-arranged unit shutdown during summer months other than boiler license renewal kind of issues. For routine maintenance it was emphasized many more times to explore the winter season.
BKTPP Unit#5	08.06.22 to 17.07.22	

## ITEM No: 5. AGENDA NOTES PUT UP BY SLCF MEMBERS FOR DISCUSSION:

### 5.1. Agenda note put up by KTPS

1) In concurrence of the 64th SLCF meeting held on 01.10.2021, in agenda 5.1, we already intimated that

- i) KGP-I main module's ABT meter communication was not established
- ii) KGP-II check module's ABT meter failed to synchronize time.
- iii) Another four meter's operating keypads are not working

Presently, from 13.12.2021, check module meter of 400 KV Arambag circuit is unable to download load survey data (Energy Meter Reading).

Along with these, all meters are having time shifts developing day by day but it is not possible for us to take the risk of time synchronizations as all meters are very old and rugged.

#### ***Deliberation:***

CE,CTD stated that the SAMAST (metering part) vendor will be delivering the meters in the second week of April,2022. It will be ensured that the first lot of meters are handed over to KTPP so that the old meters can be replaced at the earliest.

The forum requested KTPP to take up the matter with appropriate authority of STU for checking and calibration of the Interface meters as per provisions in Clause No. 14(i) of CEA (Installation and operation of meters) (Amendment) regulations,2019 and Clause No. 3.6.4 of WBERC State Electricity Grid Code) regulations,2007 and Clause No. 6.10 of WBERC (Terms and Condition of Tariff) Regulations,2011.

### 5.2. Agenda note put up by STPS

In case of DC change, some ambiguity faced by us.

For an example :-

Suppose our DC is 450 MW. We want to make it 445 MW. As per prevailing norm we revise our DC (minimum 2%) as 435 MW in X block and 445 MW in (X+1) block. But SLDC is not accepting this change in one revision. Then what is the exact procedure to change DC?

#### ***Deliberation:***

Forum opined that it might have happened due to 7<sup>th</sup> / 8<sup>th</sup> block effect, that needs further information to ascertain. However, the forum deliberated in this matter and has emphasized to upkeep the true spirit of the 2% rule which was enacted to mitigate frivolous scheduling by any entity. Forum advised all entities to keep the spirit of this rule intact and any revision by any entity seeking to bypass this mentioned rule may please be avoided.



### 5.3. Agenda note put up by BTPS

It has been observed that there is a mismatch of AG (sent out) between newly installed ABT Energy meters (Schneider make ION 8650) at BTPS and WBSETCL existing Energy Meter APEX 100 (Secure make). The sent out of BTPS meter is always more than the WBSETCL meter. As a result, BTPS is incurring huge revenue loss. The attached Annexure-1 for October'2021 may please be seen as a comparative study.

**Difference of AG value between B.T.P.S. SCHNEIDER and SLDC apex 100 secure meter for october 2021**

2021-2022		Week -27		
Date:	Schedule Generation (SG) from New ABT in MWh	Actual Generation (AG) in MWh		
		As per New ABT of BTPS	As per Deviation Bill of SLDC	Difference of AG (Bill -New ABT)
01-10-21	4771.775	4787.109	4781.309	-5.800
02-10-21	5549.455	5515.914	5509.144	-6.770
03-10-21	5419.059	5348.793	5341.863	-6.930

2021-2022		Week -28		
Date:	Schedule Generation (SG) from New ABT in MWh	Actual Generation (AG) in MWh		
		As per New ABT of BTPS	As per Deviation Bill of SLDC	Difference of AG (Bill -New ABT)
04-10-21	5176.636	5126.481	5119.555	-6.926
05-10-21	5091.614	5094.317	5087.802	-6.515
06-10-21	4755.000	4816.133	4809.835	-6.297
07-10-21	4887.864	4957.475	4950.969	-6.506
08-10-21	5546.864	6032.868	6025.054	-7.814
09-10-21	5393.500	6426.177	6418.277	-7.900
10-10-21	6145.364	6092.079	6083.415	-8.664

2021-2022		Week -29		
Date:	Schedule Generation (SG) from New ABT in MWh	Actual Generation (AG) in MWh		
		As per New ABT of BTPS	As per Deviation Bill of SLDC	Difference of AG (Bill -New ABT)
11-10-21	6295.000	6243.684	6235.141	-8.543
12-10-21	5658.614	5690.719	5682.901	-7.818
13-10-21	5609.000	5613.658	5605.805	-7.853
14-10-21	5382.500	5435.321	5427.753	-7.568
15-10-21	5523.500	5505.254	5497.747	-7.507
16-10-21	4889.916	4899.083	4892.825	-6.258
17-10-21	4645.766	4692.159	4686.142	-6.017

2021-2022		Week -30		
Date:	Schedule Generation (SG) from New ABT in MWh	Actual Generation (AG) in MWh		
		As per New ABT of BTPS	As per Deviation Bill of SLDC	Difference of AG (Bill -New ABT)
18-10-21	4469.992	4517.213	4511.505	-5.708
19-10-21	4628.234	4645.151	4639.713	-5.438
20-10-21	5228.000	5208.473	5203.302	-5.171
21-10-21	4687.929	4716.563	4712.047	-4.516
22-10-21	4873.952	4896.791	4892.087	-4.704
23-10-21	4415.540	4434.084	4429.725	-4.359
24-10-21	4374.279	4408.838	4404.648	-4.190

2021-2022		Week -31		
Date:	Schedule Generation (SG) from New ABT in MWh	Actual Generation (AG) in MWh		
		As per New ABT of BTPS	As per Deviation Bill of SLDC	Difference of AG (Bill -New ABT)
25-10-21	4583.340	4604.173	4603.749	-0.424
26-10-21	4628.798	4661.542	4651.369	-10.173
27-10-21	4834.230	4851.931	4847.043	-4.888
28-10-21	4142.258	4080.623	4076.577	-4.046
29-10-21	4049.232	4057.518	4053.064	-4.454
30-10-21	5091.540	5127.823	5122.555	-5.268
31-10-21	4843.161	4874.600	4869.272	-5.328

#### ***Deliberation:***

The forum requested BTPS to take up the matter with appropriate authority of STU for checking and calibration of the Interface meters as per provisions in Clause No. 14(i) of CEA (Installation and operation of meters) (Amendment) regulations,2019 and Clause No. 3.6.4 of WBERC State Electricity Grid Code) regulations,2007 and Clause No. 6.10 of WBERC (Terms and Condition of Tariff) Regulations,2011.

### 5.4. Agenda note put up by SLDC

1. In line with agenda no B4 of 188<sup>th</sup> OCC, it is requested to WBPDC and DPL to forecast their month wise expected generation for the forthcoming summer months. Initially a report for the months from April 2022 to August 2022 will serve the purpose. WBPDC HQ is requested to bring these data for each generating station under WBPDC and the same may please be handed over to SLDC on and before the SLCF meeting. The same

guideline is given for DPL also. This is as a part of preparedness plan for forthcoming summer months as desired. It is requested to WBPDC to submit the detailed plan of generation data and long-term plans to enhance the coal stock position to the tune of prescribed normative capacity to meet the demand for the upcoming months. These will enable us to transmit the data to ERLDC / ERPC within the stipulated time (maximum by 15<sup>th</sup> March SLDC has to compile this data and to send the same to ERPC / ERLDC).

***Deliberation:***

**DPL representative assured to send forecasted demand and tentative coal stock position for the upcoming summer months as a part of assessment of summer preparedness from load dispatch centres. The same assurance has given from WBPDC also for all its generating stations**

2.. DPL representative is requested to submit data (Technical minimum load, household load with which it can give stable performance in order to initiate islanding scheme) related to their units in view of proposed islanding scheme with one unit of DPL. Also they may specify the operation limit of frequency range of the units (higher side and lower side).

***Deliberation:***

**Representative of DPL submitted that household load test has not been carried out for DPL machines till date.**

**ACE-I,SLDC stressed that as the location of DPL generating station is strategically important in terms of its close proximity to the 400KV Durgapur & Bidhannagar S/Stns along with the STPS generating station, implementation of islanding scheme of DPL is of prime importance.**

**The Forum advised DPL to consult with concerned personnel of WBPDC who have experience in implementing the live islanding schemes at BkTPP and BTPS for proper guidance in conducting the requisite tests so that the required data for carrying out relevant studies for implementation of the islanding scheme of any one unit of DPL.**

3. In continuation to the MOM of 62nd SLCF meeting held on 24.03.2021, it is requested to DPL representative to give update on commissioning of its 220 KV transfer bus at its switchyard. No information received from DPL in this regard after the discussion held in the said SLCF meeting.

***Deliberation:***

**The forum requested DPL to furnish a detailed report about the installation and commissioning of the 220 KV Transfer bus in the following manner:**

- i) The detail of work completed till date.**
- ii) The details of work yet to be completed along with a proper timeline for completion of the same.**

**3.** In view of forthcoming summer months it is desired to get maximum possible VAR support from all state generators. The requirement of summer and winter are different in terms of MVAR. The first one demands maximum possible VAR generation during summer peak hours and the second one requires maximum possible VAR absorption during winter off-peak hours. In view of these requirements generating stations may convey their preparedness to generate MVAR satisfactorily during summer peak hours within limit of their capability curve

of individual units. In case of any apprehended bottleneck to perform up to desired tune in this regard, may please be informed to the forum.

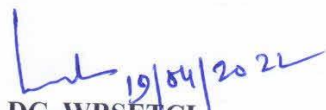
***Deliberation:***

ACE, SLDC has requested all state generators to convey their preparedness to generate MVAR satisfactorily during summer peak hours within limit of their capability curve of individual units. In case of any apprehended bottleneck to perform up to desired tune in this regard, matter may please be informed to SLDC within shortest possible time.

Also, it is mentioned by ACE, SLDC that the hours for which MW vs MVAR data are sent by state generators during winter months will change shortly and from which time to what hours of the day the VAR performance data will have to be submitted by the state generators, will be intimated shortly by SLDC.

**ITEM No: 6. Date and venue of next SLCF (i.e. 65<sup>TH</sup>) Meeting.**

**ITEM No: 7. MISCELLANEOUS:**

  
C.E., SLDC, WBSETCL.

## **Annexure -1**

- The new Transformers, EHT lines and equipments commissioned during **Nov-21 to Dec-22** were as follows:

<b>Sr No</b>	<b>New Element</b>	<b>Changed Connectivity</b>	<b>Date of charging</b>
1	KLC- Saltlake AIS 132 kV d/c	KLC-SLT # 1 : 16.992 km, KLC-SLT # 2: 13.977 KM. Conductor used: AL 59. Replaced erstwhile SLT-Kasba d/c line	16:52 hours of 23.12.21 (Ckt #2)  19:49 hours of 23.12.21 (Ckt #1)
2	LILO of 220 kV Dharampur-Rishra # 1 line and using Satgachia-Jeerat defunct line (the Satgachia portion) at Dharampur	220 kV Satgachia-Rishra: 89.68 KM	17.54 hrs of 14.01.22
		220 kV Satgachia-Dharampur # 2 66.5 km	17.40 hrs of 14.01.22
3	LILO of 220 kV Arambag – Rishra S/C Line at New Chanditala	Arambag-New Chanditala : 70.455 km,	20:16 Hrs of 16.02.2022
		Rishra –New Chanditala (Zebra equivalent HTLS): 32.747 km	20:11 Hrs of 16.02.2022
4	220 KV KASBA-CESC CKT#2	Newly Commissioned	17.39 Hrs of 25.02.2022

**Memo No. SLDC/ How/ EA-18/ 2021-22/ 65(1-37)**

**Dated : 19/04/2022**

**Copy for information please:-**

1. The Secretary, WBERC, FD-415A, PouraBhavan, 3<sup>rd</sup> Floor, Bidhannagar, Kolkata-700 106
2. PS to Managing Director, WBSETCL, Vidyut Bhavan, Kolkata-91.
3. PS to Managing Director, DPL, Kolkata -107.
4. PS to Director (Operations), WBSETCL, Vidyut Bhavan, Kolkata-91.
5. PS to Director (RT), WBSEDCL, Vidyut Bhavan, Kolkata-91.
6. PS to Executive Director (OS), WBPDC, Salt Lake City, Kolkata-700 098.
7. C.E, SLDC, WBSETCL, Howrah-09.
8. C.E, Transmission-I, WBSETCL, Vidyut Bhavan, Kol-91.
9. C.E, Transmission-II, WBSETCL, Vidyut Bhavan, Kol-91.
10. C.E, CTD, WBSETCL, Abhiksan Bhavan, Kol-91.
11. C.E, Communication, WBSETCL, Abhiksan Bhavan, Kol-91.
12. Chief Engineer, CLD, DVC, Howrah.
13. C.E.(PTP) WBSEDCL, Vidyut Bhavan, Kolkata-91.
14. G.M , (SO) CESC Ltd., Statesman House, Kol- 01.
15. G.M. BTPS, WBPDC.
16. G.M. STPS, WBPDC.
17. G.M. KTPP, WBPDC.
18. G.M. BKTPP, WBPDC.
19. G.M. SGTPP, WBPDC.
20. Sri I. B. Chakraborty, Vice-President, Engineering & Projects, IPCL
21. Addl. Chief Engineer, SLDC, WBSETCL, Howrah-09.
22. Addl. Chief Engineer, Communication (Howrah), WBSETCL, Howrah-09.
23. Addl. Chief Engineer, ALDC, WBSEDCL.
24. Sri P. Gupta, DGM, WBPDC.
25. Sri A. Sen Gupta, DGM, System Control Department, CESC Ltd, CESC House, Kol- 01.
26. Sri S. K. Sarkar, G.S.(T&D, Load Management), DPSC Ltd.
27. Sri R. Biswas, Sr. Manager, ALDC, DPL.
28. Sri Goutam Bose, Sr. Manager & HOD (Operation), KTPP WBPDC,
29. Sri Indrajit Banerjee, Manager(Operation), KTPP WBPDC.
30. Sri D. Chanda, Sr. Manager(PS), BKTPP, WBPDC.
31. Mr. Joynal Abedin, Sr. Manager(E.O.), BKTPP, WBPDC.
32. Sri K. Banerjee, Manager, System Control Department, CESC Ltd, CESC House, Kol- 01.
33. Sri A. Biswas, Manager(PS), BKTPP, WBPDC.
34. Sri F. Hossain, Manager (PS), SGTPP, WBPDC.
35. Sri M.S. Bapari, Manager (PS), SGTPP, WBPDC.
36. Sri M. Mallik, Sr. Manager, (System Operation – Electrical), BTPS, WBPDC.
37. Sri S. Maiti, Sr. Manager (O), STPS, WBPDC.

  
19.04.22  
Convenor, SLCF

