

MINUTES OF THE 58th SLCF MEETING HELD ON 12.06.2019

Shri. P. K. Kundu, Chief Engineer (SLDC), WBSETCL & Chairperson, SLCF welcomed all the participant members to the 58th SLCF meeting.

ITEM-1: CONFIRMATION OF THE MINUTES OF THE 57th SLCF MEETING HELD ON 12/03/2019.

The minutes were circulated vide memo no: SLDC/How/109/2019-20/126 dated 30/04/2019 with a corrigendum vide memo no: SLDC/How/109/2019-20/247 dated 27/05/2019 and the same was also published in the website(www.wbslhc.in).

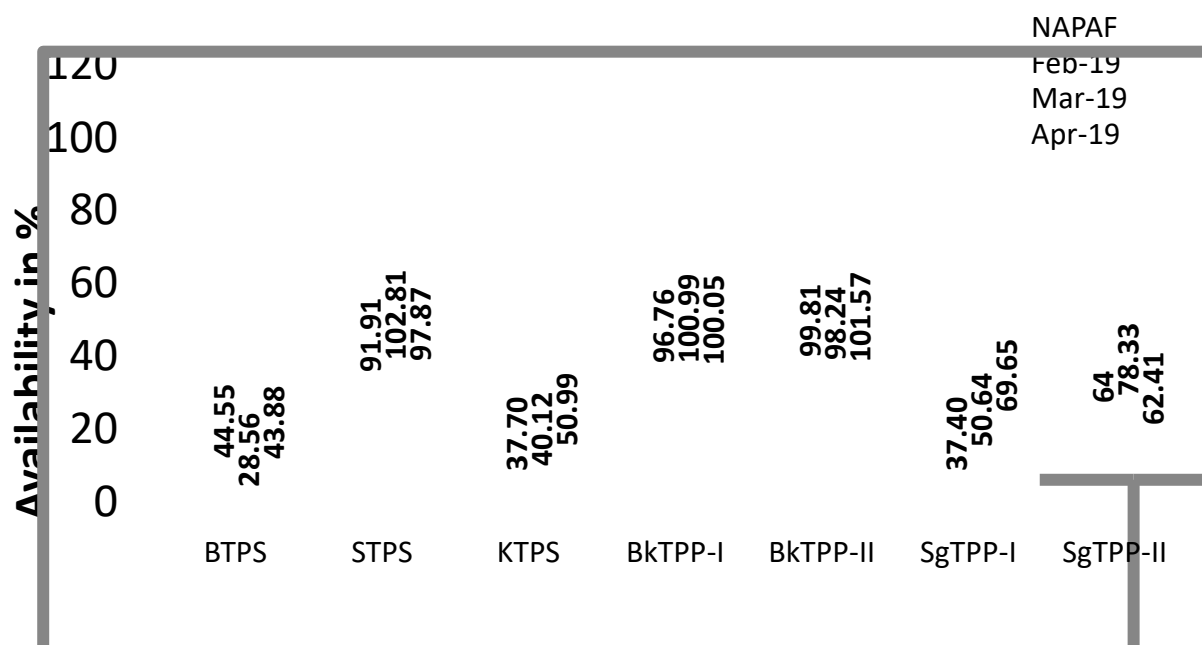
The minutes of the 57th SLCF meeting was taken as accepted.

ITEM-2: REVIEW OF THE STATE GRID PERFORMANCE:

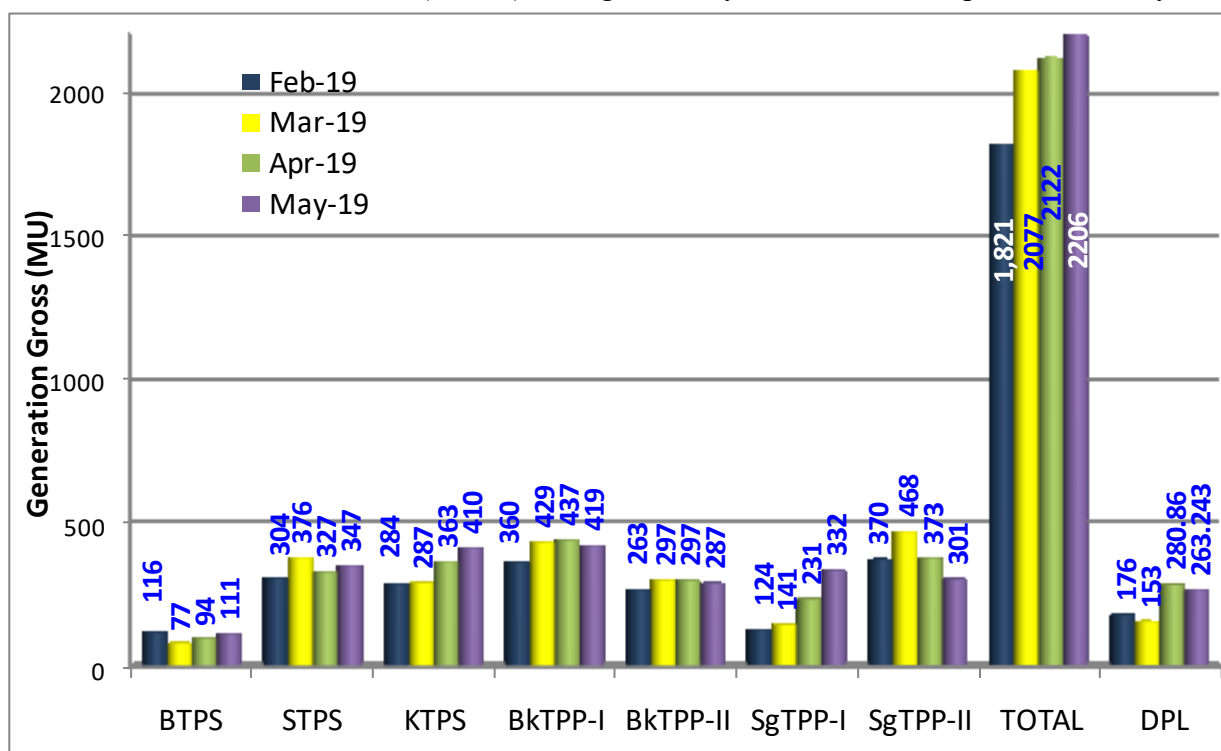
Power point presentation on grid performance for the month of February-19, March-19, April-19 and May-19.

Divisional Engineer, SLDC made a Power point presentation on the grid performance based on operational statistics for the period of February-19, March-19, April-19 and May-19. A critical analysis on the grid performance reveals the following:

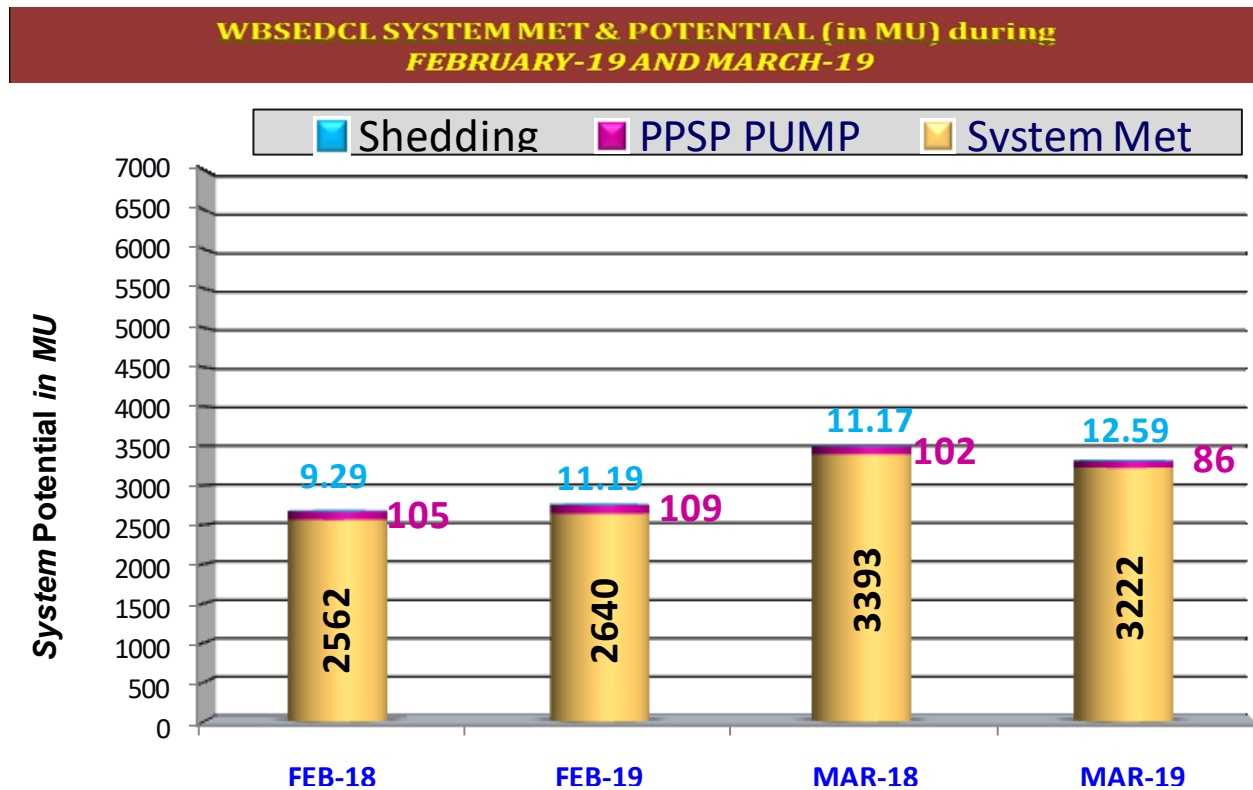
- 2.1 Availability of WBPDC power plants in terms of *NAPAF & *PAFM for the month of February-19, March-19 and April-19 are as follows:



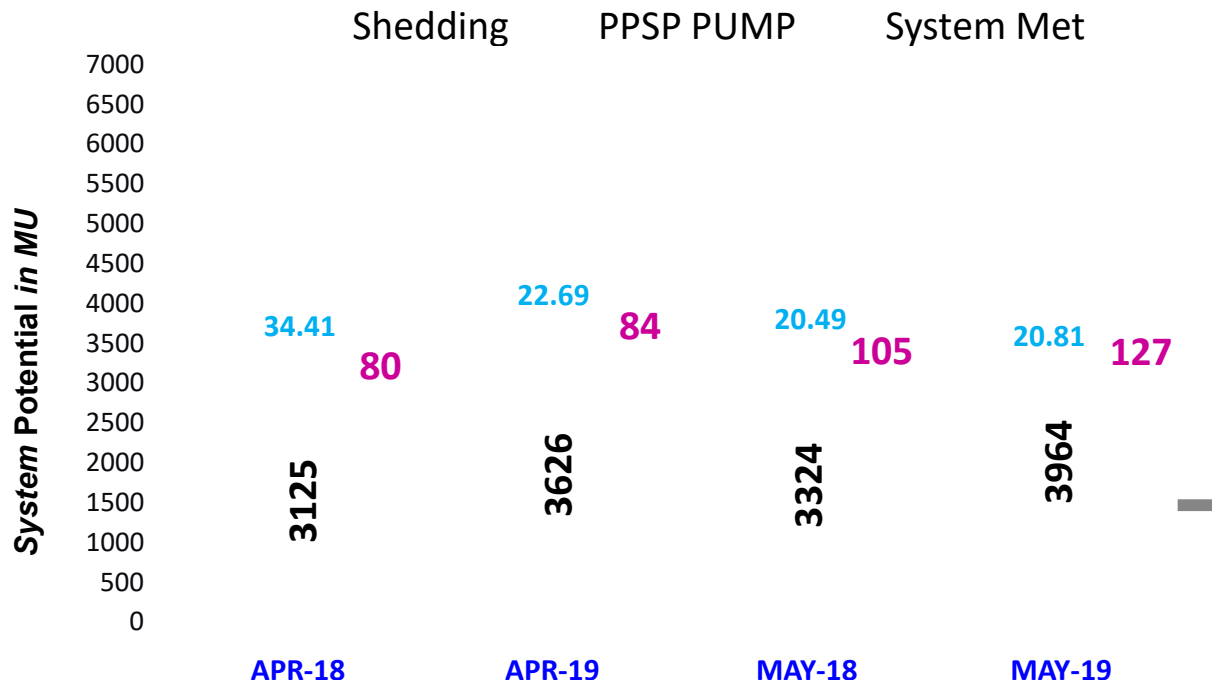
2.2 Gross Generation of WBPDC (in MU) during February-19, March-19, April-19 and May-19



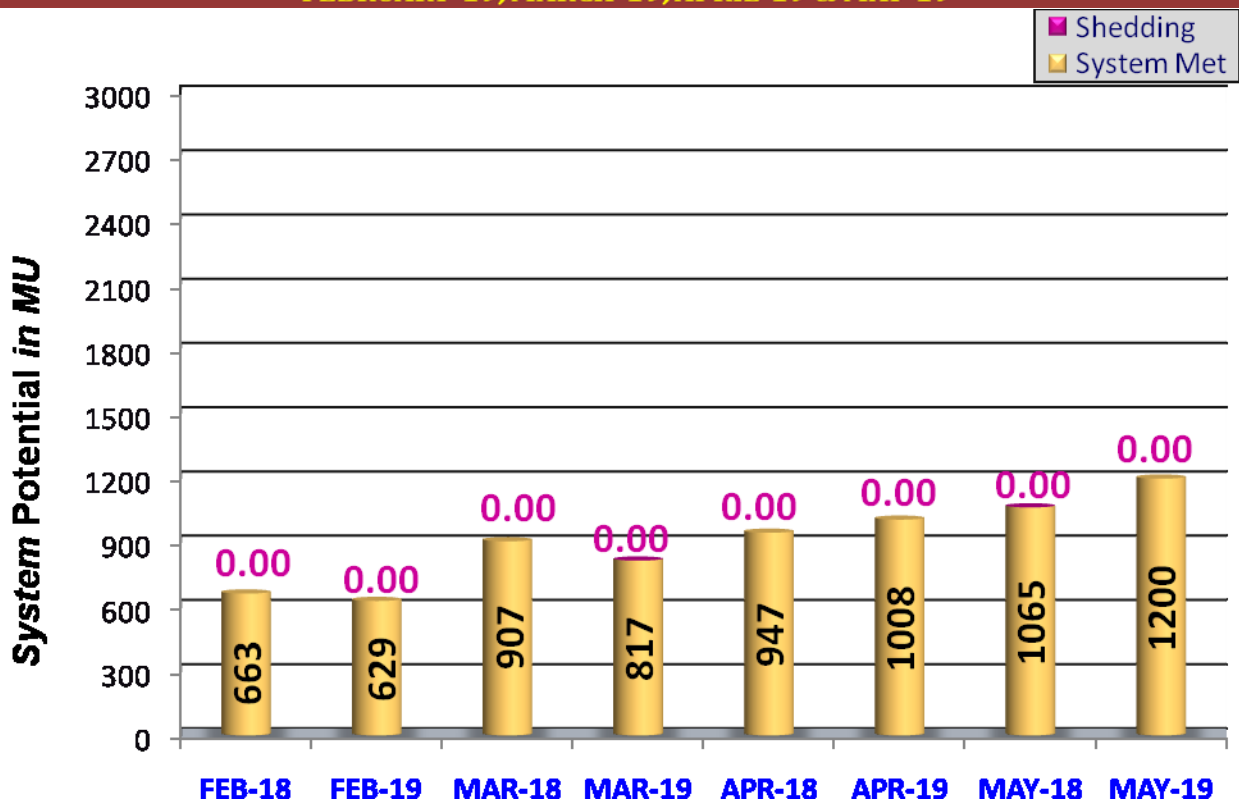
2.3 System met and system Potential of distribution licensees during February-19, March-19, April-19 and May-19 were as follows:



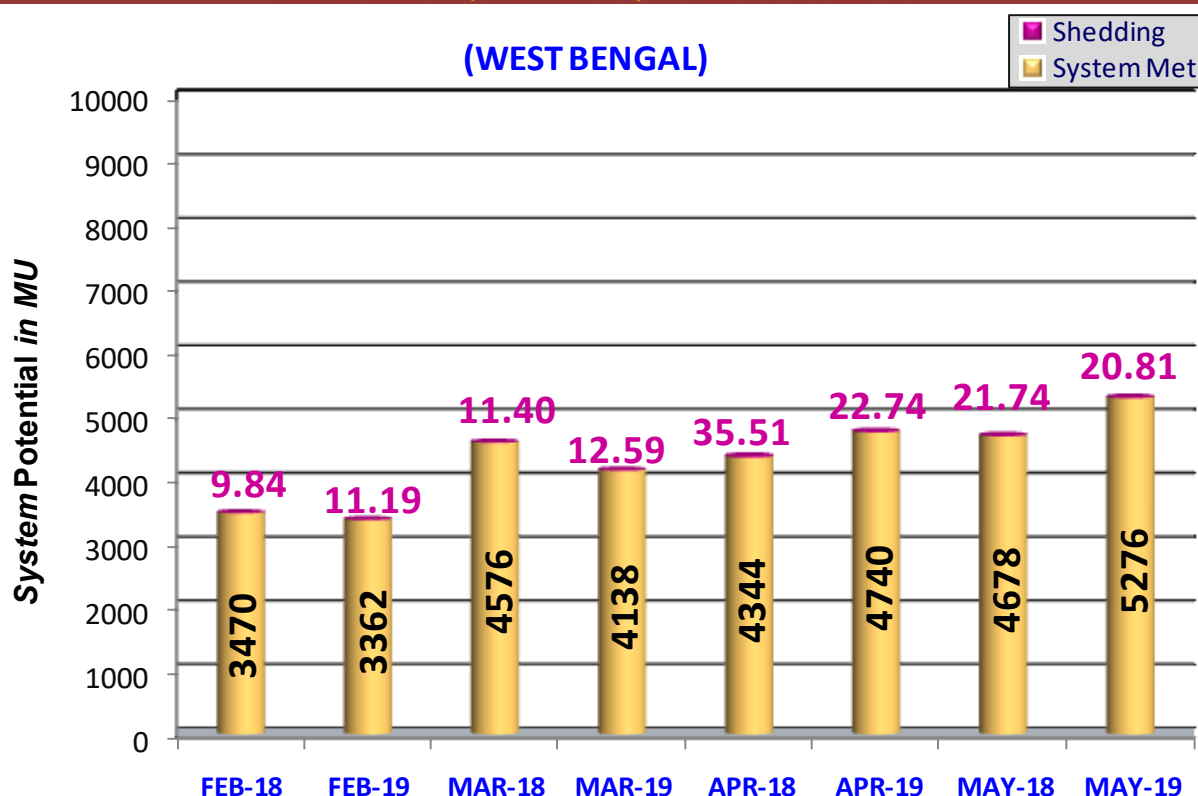
**WBSEDCL SYSTEM MET & POTENTIAL (in MU) during
APRIL-19 AND MAY-19**



**CESC SYSTEM MET & POTENTIAL (in MU) during
FEBRUARY-19, MARCH-19, APRIL-19 & MAY-19**



**WEST BENGAL SYSTEM MET & POTENTIAL (in MU) during
FEBRUARY-19, MARCH-19, APRIL-19 & MAY-19**



2.5 The Maximum demand (potential) and their time of occurrence during February-19, March-19, April-19 and May-19 were as follows:

WBSEDCL MAXIMUM (POTENTIAL) DEMAND IN MW-----

- FEB -2019 peak demand 5400 MW, on 21.02.19 at 19.00 hrs.
- MAR-2019 peak demand 6491 MW, on 30.03.19 at 19.00 hrs.
- APR-2019 peak demand 6871 MW, on 27.04.19 at 20.00 hrs.
- MAY-2019 peak demand 7004 MW, on 21.05.19 at 23.00 hrs.

CESC MAXIMUM (POTENTIAL) DEMAND IN MW-----

- FEB-2019 peak demand 1458 MW, on 22.02.19 at 18.00 hrs.
- MAR-2019 peak demand 1650 MW, on 28.03.19 at 19.00 hrs.
- APR-2019 peak demand 2131 MW, on 29.04.19 at 16.00 hrs.
- MAY-2019 peak demand 2304 MW, on 30.05.19 at 16.00 hrs.

WEST BENGAL MAXIMUM (POTENTIAL) DEMAND IN MW-----

- FEB-2019 peak demand 6889 MW, on 22.02.19 at 1900 hrs.
- MAR-2019 peak demand 8199 MW, on 30.03.19 at 19.00 hrs.
- APR-2019 peak demand 8717 MW, on 27.04.19 at 20.00 hrs.
- MAY-2019 peak demand 8964 MW, on 21.05.19 at 23.00 hrs.

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 DPPS of DPL: On 30.03.19 at 11:18 hrs, on 06.04.19 at 16:50 hrs, on 09.04.19 at 16:38 hrs and on 03.05.2019 at 11:25 hrs and 16:38 hrs, some breakdown occurred at DPPS system which resulted in generation loss and load loss in DPL(WBSETCL) S/S..

--- DPL representative may please deliberate with SLD/network diagram and PPT Presentation.

Deliberation in the meeting.

On 30.03.19 at 11:18 hrs, 220 KV R and Y phase single tension disk insulator string of 220 KV Main Bus-1 at DPPS,DPL failed resulting tripping of unit #7 in GT differential, 220 KV DPL-Durgapur I & II and 132 KV DPL-Durgapur I & II from Durgapur end, with total power failure at DPL power plant. PCBL desynchronized from Grid and 132kv DPPS-B-zone# 3 and DPPS-AB Zone # 2 tripped in back up E/F. No power at Bzone, Azone, Bamunara, ABzonne, Czone and C1 zone S/S of WBSETCL.

Gen loss: 3995 MWh

Restoration:

- 1) *132 KV old switchyard MB charged at 12.09 hrs. , New Switch yard 132kv MB charged at 14.45 hrs.*
- 2) *220 KV Unit #8 bus charged at 12.01 hrs and Unit #6 & 7 bus charged at 21.05 hrs.*
- 3) *Unit #8 and Unit #7 synchronized at 03.51 hrs and 23.39 hrs on 31/03/2019 respectively.*
- 4) *PCBL normalised at 16.10 hrs.*

On 06.04.2019 at 17.50 hrs, 132 KV Y-PH jumper of transfer bus at 132 KV old switch yard at DPPS, DPL snapped causing tripping of all out going lines and 132 KV O.H. tie between 132 KV old switch yard and new switch yard. No power at B-Zone, A-Zone, Bamunara, C1 zone and AB Zone S/S.

Generation Loss: NIL.

Restoration:

- 1) *132 KV old sw.yard MB charged at 19.00 hrs. from Bidhannagar.*
- 2) *B zone Sub-stn charged at 19.30 hrs*
- 3) *DPPS 132 KV old switch yard at 22.30 hrs.*

On 09.04.19 at 16:38 hrs, 220 KV ICB-1 tripped in line differential protection at DPPS,DPL. On inspection its PG clamps found damaged and it was also observed that B-ph current in Inter Connector-2 is absent from both unit #8 and unit#7 end. To attend the fault at 220 KV U#6&7 main Bus, unit #7 was desynchronized at 16.58 hrs and 3 nos. Auto transformers made off at the same time. Power interruption at WBSETCL S/S: NIL.

Gen loss: 1800 MWh

Restoration:

- 1) *220/132 KV ICB #2 and 220KV MB(Unit #7) charged at 22.30 hrs*
- 2) *Unit #7 synchronized at 02.35 hrs on 10.04.19*
- 3) *220/132 KV ICB #1 normalized at 17.44 hrs on 10/04/19*

On 03.05.2019 at 11.25 hrs DPPS-B-zone#1 & #3 tripped by distance protection operated due to snapping of a jumper of 132 KV overhead tie at DPPS switchyard. However, B- Zone sub-stn was getting power through Bidhannagar 220 KV B-Zone with restricted load. (Load reduction-30 MW)

On 03.05.2019 at 16.38 hrs, DPPS-Bzone# 1 & #3 tripped by distance protection operated due to snapping of a jack bus over 132 KV old main bus at DPPS switchyard. At that time DPPS-Bzone#2 was under shutdown for maintenance. Hence, Bzone sub-stn became no power. No power also at C1zone, Azone, Bamunara and ABzone S/S. Czone received power from BidhanNagar. Sub-stn received power at 17.45 hrs through GS-2 with restricted load.

Interruption of Load at DPL(WBSETCL) 132kv sub-stns.:

	30.03.19 (11:48Hr.)		06.04.19 (17:50Hr.)		03.05.19 (11:25HR)		03.05.19 (16:38HR.)	
Sub-stn. Name	LOAD (MW)	Normal Time	LOAD (MW)	Normal Time	LOAD (MW)	Normal Time	LOAD (MW)	Normal Time
A-zone	47	12:30 hr.	48	19:30 hr	48	12:26 hr	44	17:45
B-zone	58	11:50 hr.	60	19:00 hr	60	12:25 hr	63	17:45
C-zone	39	13:25 hr.	No interruption		No interruption		No interruption	
C1-zone	70	15:15 hr.	75	18:25 hr	No interruption		74	16:55
AB-zone	51	15:20 hr.	54	22:30 hr	52	12:19 hr	50	22:46
Bamunara	25	12:45 hr.	28	19:25 hr	25	12:28 hr	24	17:49

1. On 18/05/2019 at 22:40hrs, bus fault occurred at BKTPP 220 KV MB-I causing generation loss.

--- WBPDC/BKTPP representatives may please deliberate.

Deliberation in the meeting.

On 18.05.19 at 22:40 hrs, suspected lighting strike (3000 amp current) in R-Phase occurred. Consequently, bus bar differential protection operated at 220 KV Main bus-I at BkTPP resulting tripping of 220 KV Satgachia-I, Sadaipur-I, Durgapur-II, 315 MVA ICT-II, GT#3, GT#5, ST#3, ST#5, 33 KV Pass-Bay at BkTPP. Unit#3 and Unit #5 went to house load mode which after the incident were diverted to MB-II.

Gen loss: 350 MW

Load loss: 18 MW.

Restoration:

- 1) 220 KV BkTPP-Satgachia Ckt –I charged at 22.47 hrs.
- 2) 220 KV BkTPP-Sadaipur Ckt –I charged at 22.48 hrs.
- 3) 220 KV BkTPP-Durgapur Ckt –II charged at 23.14 hrs.
- 4) Unit #3 and Unit #5 synchronized at 00.22 hrs and 23.03 hrs respectively.

ITEM No. : 4. OPERATIONAL PLANNING:-

(a) Anticipated power supply position for the month of JULY, AUGUST AND SEPTEMBER 2019 (All figures are in MW) :-

Description	JULY -2019	AUGUST -2019	SEPTEMBER -2019
WBPDCCL Generation	2950	2950	2950
WBSEDCL Own Maximum Demand	6600	6300	6470
CESC Maximum Demand	1950	1970	2050
CESC Own gen. + HEL + IPP/CPP	760+540+45=1345	820+540+45=1405	820+540+45=1405
DPL Generation Availability	360	360	360
IPCL demand connected to J.K.Nagar system	110	110	110

(b) Finalization of Shut Down proposal for the month of JULY, AUGUST AND SEPTEMBER 2019 i.r.o. Generating Units, Transmission Lines and other equipments etc. as provided by constituents.

(i) SHUT DOWN APPROVED FOR WBPDCCL, WBSEDCL, CESC and OTHER GENERATING UNITS:

UNIT	DURATION	REMARKS
BkTPP #4	01.07.2019 to 05.08.2019 (35 DAYS)	BTG
SgTPP #1	07.08.2019 to 31.08.2019	Boiler Overhauling
KTPS #6	01.09.2019 to 28.09.2019	Boiler Overhauling
STPS #6	06 days in September,2019	-----
Southern #1	15.07.2019 to 29.07.2019	Statutory

ITEM No: 5. ISSUES RAISED BY SLDC:

A. Furnishing hourly MVAR data by state generators from 12.00 hrs to 24.00 hrs on daily basis on next day:

Due to excessive inductive load of WBSEDCL and CESC, bus voltage at 400 KV and 220 KV system of Jert, New Town, KLC, Kasba, Subhasgram, Lkp s/stns of WBSETCL and Rajarhat, Subhasgram s/stns of PGCIL are dropping down to 360 KV and 190 KV level. To improve system voltage, state sector generators should supply maximum possible VAR within stability limit.

Deliberation in the meeting:

Representative from WBSLDC expressed great concern over extreme low voltage conditions in Jeerat, New Town, KLC, Kasba, Subhasgram, Lkp s/stns of WBSETCL and Rajarhat, Subhasgram s/stns of PGCIL in recent times. During that period VAR supply by HEL generators was quite appreciable. However, all other state sector generators were requested to supply maximum possible VAR within stability limit.

WBSLDC representative also requested all generating stations to furnish hourly MVAR data from 12.00 hrs to 24.00 hrs on daily basis on next day. ALL agreed for the same.

SgTPP is requested to furnish their Capability curve i.r.o Unit # 3,4 (in soft copy).

B. For implementation of Automated Meter reading (AMR) system in line with implementation of SAMAST within the State of West Bengal, communication channel will be required for on line transmission of meter data to WBSLDC. All constituents were requested to confirm regarding required communication path/access of the communication channel for successful functioning of AMR system. Till now no confirmation has been received even after repeated persuasions in SLCF. All constituents are requested to respond at the earliest.

Deliberation in the meeting:

All concerned agreed for the same.

C. Check Meter data in respect of feeders emanating from DPL generating station should be sent to SLDC on regular basis. Zero meter checking also presently cannot be done due to lack of co-ordination at DPL end.

Deliberation in the meeting:

On this issue representative from DPL informed that at present there is no check meter installed at DPL. Representative from WBSLDC expressed that as the feeders emanating from DPL generating station are being used in State level energy accounting, and check meters installation is a regulatory mandate. Therefore, the house proposed to install check meters i.r.o feeders emanating from DPL generating station.

DPL agreed for the same.

ITEM No: 6. AGENDA NOTE PUT UP BY SLCF MEMBERS FOR DISCUSSION:

6.1. Agenda note put up by WBPDC

WBPDC is going to build up a common network with Commercial Meters(Secure, L&T & Genus make). We require connectivity permission from commercial meters, address mapping of Secure meters & software for decryption of meter data.

Deliberation in the meeting:

Regarding this issue the house proposed WBPDC to make correspondences with CTD, WBSETCL with a copy to WBSLDC, WBSETCL.

6.2 Agenda note put up by BTPS

Request for arrangement for a workshop for detail deliberation on CERC (DSM and related matters) (Fifth Amendment) Regulations, 2019.

Deliberation in the meeting:

Addl CE, WBSLDC mentioned that a workshop on Fourth Amendment of DSM Regulation was held and changes from fourth amendment to Fifth Amendment are minor. No major philosophical changes were introduced; hence there is no need for separate workshop. However, he elaborated in front of the house about the salient changes that has been introduced in the Fifth Amendment.

6.3 Agenda note put up by STPS

- A. Details generation availability (EX-Bus) of STPS: July'2019 — 343.72 MU, August'2019 — 343.72 MU & September'2019 — 297.79 MU. This is our provisional Ex-Bus Generation availability but actual availability of STPS will be submitted by our Corporate OS, Cell.
- B. Tentative maintenance program of equipment and transmission lines during the Month of July'2019, August'2019 & September'2019 are attached in the separate sheet.
- C. Tentative program of unit shut down during this period: Unit # 6 of STPS will remain under shutdown for six (06) days for Boiler license renewal job. However actual date of shut down will be submitted by our Corporate OS, Cell.

Deliberation in the meeting:

Detailed generation and tentative program were accepted.

6.4 Agenda note put up by SgTPP

Change of SG value during running block or after completion of block observed in some revisions. These are unethical and need to be avoided. Instances- (1) Revision 12 dated 03/06/2019, (2) Revision 4 dated 21/05/2019 and others.

Deliberation in the meeting:

WBSLDC representatives stated that those stray cases may be due to communication (internet) failure. Numerous schedule revisions are done on each day and SLDC shift personnel take utmost care to make the schedules available to entities within acceptable time frame.

6.5. Agenda note put up by BkTPP

A. Auto-Refresh of SLDC site.

Pop up against revision of schedule with auto refresh at WBSLDC website is yet not available. SLDC is requested to update the status w.r.t Sl. No-6.3.1 of 57th SLCF minutes.

Deliberation in the meeting:

WBSLDC representatives accepted that Pop up against revision of schedule with auto refresh at WBSLDC website is yet not available and confirmed that they will look into the matter.

B. Time stamping of Current schedule in SLDC site

Revision updating with time stamp at WBSLDC website is yet not available. SLDC is requested to update the status w.r.t Sl. No-6.2.B of 57th SLCF minutes.

Deliberation in the meeting:

WBSLDC representatives accepted that Revision updating with time stamp at WBSLDC website is yet not available. Considering the status of the WBSLDC website, WBSLDC representative expressed that modification of the website will be explored.

C. Decommissioning of WBSETCL's 220KV/33 KV Pass bay inside BkTPP Switchyard.

With reference to letter of CE, SLDC dated 19.03.19 to the CE Transmission (O & M-II), the expected time frame may please be intimated to us by WBSETCL so that we can explore the vacated yard and control space for our upcoming FGD power supply.

Deliberation in the meeting:

On this issue, no discussion was held as there was no representative from Transmission (O & M), WBSETCL.

D. Regarding O&M of WBSETCL's 220KV/33 KV PASS BAY inside BkTPP Sw. Yard following issues are still persisting:

- a. Digital Current Display meter (Y PHASE) of 220KV/33 KV PASS BAY (HV SIDE, LV SIDE) showing erratic value since MAY 2018 in Control Panel .
- b. 189TL isolator is showing no feedback at Control Panel.

Deliberation in the meeting:

On this issue, no discussion was held as there was no representative from CTD, WBSETCL.

E. Online access of Frequency meter NP-2657-A at Korba.

In Deviation Bills, Frequency meter NP-2657-A at Korba is used as the Master frequency. But it is not accessible online to us. As per our knowledge, the block wise average frequency is downloaded from Frequency meter NP-2657-A at Korba and sent to ERLDC. It is then distributed by ERLDC to state SLDCs. The generators get the figures only when Deviation Bill is sent by SLDC. The average Block frequency sometime differs between our ABT Management System and Deviation Bills (i.e of Korba). The online frequencies of ERLDC or WBSLDC site are also found different at a given time.

We have been operating on the basis of frequency measured at our end to stable the Grid and optimize profit. But when the Deviation Bill comes, sometimes it is found that the frequency measured locally could spoil our efforts. We find ourselves in difficult situation commercially and technically due to non-availability of online Korba frequency.

Therefore, we propose that data of Frequency meter NP-2657-A at Korba should be accessible online.

Deliberation in the meeting:

WBSLDC representatives informed that WBSLDC receives frequency of master meter NP-2657-A installed at Korba from ERLDC through e-mail and WBSLDC do not have any online access to that meter.

Therefore, WBPDC may approach to ERLDC regarding the matter.

F. DC compensation during Ramp up after LSD withdrawal.

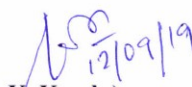
It is noticed that after LSD withdrawal, the credit of DC on account of LSD ceases with unit synchronization. No DC for unit back down is credited during ramp up process. Due to this reason we have lost huge capacity charge. So we propose that DC for unit back down should be credited during ramp up process also i.e from unit synchronization to achieving full load.

Deliberation in the meeting:

On this issue, after detailed discussion, it was decided that as there are no representatives from beneficiary WBSEDCL, no decision can be taken.

ITEM No: 7. Date and venue of next SLCF (i.e. 59th) Meeting.

Date and venue of next SLCF meeting will be intimated later.


(P. K. Kundu)
C.E., SLDC, WBSETCL.

Annexure -1

<u>Newly Commissioned Sub-stations</u>			
Sl. No.	Location	Identification of equipments	Date & Time
1	132 KV (GIS) PANAGARH Sub/stn.	132 KV Mankar-Panagarh D/C	Commissioned & charged on 12/03/19
		132/33 KV 50 MVA Tr. #1 & 2	Charged and loaded on 12/03/2019
2	132 KV JHALDA SUB/STN	132 KV Jhalda-Baghmundi ckt #2	Charged and loaded on 29/05/2019

Memo No. SLDC/ How/ 109/ 2019-20/ 656(1-36)

Dated : 12/09/2019

Copy for information please:-

1. The Secretary, WBERC, FD-415A, PouraBhavan, 3rd 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, AbhiksanBhavan, Kol-91.
11. C.E, Communication, WBSETCL, AbhiksanBhavan, 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, ALDC, WBSEDCL.
23. Sri N.G.Saha, DGM, WBPDC.
24. Sri A. Sen Gupta, DGM, System Control Department, CESC Ltd, CESC House, Kol- 01.
25. Sri S. K. Sarkar, G.S.(T&D, Load Management), DPSC Ltd.
26. Sri R. Biswas, Sr. Manager, ALDC, DPL.
27. Sri Suhas Ch. Ray Sr.Manager(Operation), KTPP WBPDC.
28. Sri Indrajit Banerjee Manager(Operation), KTPP WBPDC.
29. Sri D. Chanda, Sr.Manager(PS), BKTPP, WBPDC.
30. Mr. Joyanal Abedin, Sr.Manager(E.O.), BKTPP, WBPDC.
31. Sri K. Banerjee, Manager, System Control Department, CESC Ltd, CESC House, Kol- 01.
32. Sri A.Biswas, Manager(PS),BKTPP,WBPDC.
33. Sri F.Hossain, Manager (PS), SGTPP, WBPDC.
34. Sri M.S.Bapari, Manager (PS), SGTPP, WBPDC.
35. Sri M. Mallik, Sr. Manager, (System Operation – Electrical), BTPS, WBPDC.
36. Sri S. Maiti, Sr. Manager (O), STPS, WBPDC.


Convenor, SLCF 12.09.19