

North Eastern Regional Power Committee

Agenda For

183rd OCC Sub-Committee Meeting

Time of meeting : 10:30 Hrs.

Date of meeting : 21st October, 2021 (Thursday)

Venue : "Pala Resort", Sohra.

A. CONFIRMATION OF MINUTES

CONFIRMATION OF MINUTES OF 182nd MEETING OF OPERATION SUB-COMMITTEE OF NERPC.

The minutes of 182nd meeting of Operation Sub-committee held on 21st September, 2021 at Shillong were circulated vide letter No. NERPC/SE (O)/OCC/2020/3052-3089 dated 30th September, 2021.

Following comments/observations have been received from constituents:

Item No. B.13:

Recorded: "SE(SO&PSC), DoP Ar. Pradesh stated that due to long radial link 132kV RHEP-Ziro-Daporizo-Along-Pasighat-Roing-Tezu-Namsai severe voltage problems are being encountered. For eg. the 20MVAR Bus Reactor at Roing when it is switched ON leads to the voltage(115-118kV) being less than IEGC and when turned OFF leads to voltage(>140kV) higher than IEGC limit. He requested that the Reactor may be replaced with reactor of suitable rating. Further he enquired about the status of 132kV Roing – Chapakhowa and 33kV Rupai-Chapakhowa.

CGM(AM), NERTS informed that 132kV Roing-Chapakhowa will be completed by Dec'21. AGM, SLDC, AEGCL informed that 33kV Rupai-Chapakhowa has already been charged."

Modifications sought by DoP Arunachal Pradesh vide letter dated. 06.10.2021

33kV Rupai-Chapakhowa to be modified to 132kV Rupai-Chapakhowa. Further it was also decided that during the pendency of completion of 132kV Roing – Chapakhowa by Dec'21, NERLDC would carry out a study and suggest voltage control means to keep the voltage in the IEGC range.

Item No. C.2

Sl.No. 9 Status for 132kV Roing – Chapakhowa recorded as: "Retendering done. By Dec'21"

View/Observation of DoP Ar.Pradesh : "At Sl.No.9 it is stated that re-tendering of 132kV Roing-Chapakhowa would only be completed by Dec'21. It may be recalled that CGM(AM), NERTS had informed the forum that the same line will be completed and put into service by Dec'21. This item is in contradiction to what had been informed in item B.13.

Sl.No. 4 Status for 132kV Agia – Nangalbibra-II – Name of utility: AEGCL

View/Observation: "Request to change the name of utility to MePTCL"

The Sub-committee may confirm the minutes of 182nd OCCM of NERPC with suitable amendments as no other comments/observations were received from the constituents.

ITEMS FOR DISCUSSION

B.1. Ensuring reliable power supply and redundancy of power connected to oxygen plants:

In 182nd OCCM Director(O&P), NERPC stated that present Oxygen plant power supply status for Assam is being reported live in the SCADA system and thus requested other SLDCs to follow suit.

Members may please discuss.

B.2 Implementation of Projects funded from PSDF:

The status as informed in 182nd OCC:

State	R&U scheme	ADMS	Capacitor Installation	SAMAST**	Line Differential Protection
Ar. Pradesh	Package-I (Diagnostic tools) Complete in all respects. P-II (for PLCC & communication) Supply completed. P-III (Substation equipment) Submitted to government for tender finalization. LoA by 15.10.21.	Work completed in all respects. Final 10% disbursement by 05.10.21.	-	Financial Evaluation for Meter, AMR part completed on 21 st Sep'21	-
Nagaland	Completed in all respects. 10% requisition to be sent alongwith UC.	Work completed in all respects. Final 10% release in process.	-	Financial Evaluation for Meter, AMR part completed on 21 st Sep'21	Lines identified. Under DPR preparation stage.
Mizoram	Completed. 10% remaining claim to be submitted ASAP.	Work completed in all respects. Final 10% to be disbursed.	To reply to TESSG queries.	Financial Evaluation for Meter, AMR part completed on 21 st Sep'21	DPR submitted.
Manipur	Package-II: completed Package-I: total quantity of material yet to be received at site	Work completed in all respects. Final 10% to be disbursed.	WIP.	Financial Evaluation for Meter, AMR part completed on 21 st Sep'21	DPR received.

	33kV System Integration with SLDC	In tendering stage			
	Reliable Communications for grid connectivity	In tendering stage			
Tripura	Work completed. 10% remaining claim to be sent ASAP.	60% funds received. Disbursement by 28.10.21	Study results to be submitted alongwith DPR	Financial Evaluation for Meter, AMR part completed on 21 st Sep'21	Under DPR preparation stage.
Assam	LOA issued. WIP, delayed due to COVID situation	Work complete in all respects. 10% to be disbursed.	-	Requisition to be submitted for first tranche	Lines identified. Under DPR preparation stage.
Meghalaya	MePTCL – UC to be submitted at the earliest. MePGCL – completed in all respects.	Project complete in all respects.	-	Requisition to be submitted for first tranche	WIP. Delayed due to COVID situation

Members may please discuss.

B.3 Operational Performance and Grid Discipline during September,2021:

NERLDC will present the Operational Performance and Grid Discipline in September'2021.

NERLDC may please deliberate.

B.4 Generation Planning (ongoing and planned outages)

- a. Present per day MU and projected number of days of operation.

Plants	Reservoirs level in meter	MU content	Present DC (in MU)	No of days as per current generation
Khandong + Kopili stg II			1.176	
Kopili			0	Will be "0" until further

				intimation.
Doyang			0.568	
Loktak			2	

The outage of other generating stations may be approved considering the present water levels in reservoirs and long term outage of Kopili HEP.

Members may please discuss.

B.5 Outage Planning Transmission elements

It was agreed in the 99th OCC meeting that shutdown will be availed only after approval is given by the OCC forum. It was also agreed that deferment/revision of outages elements other than already approved in OCC will be henceforth put/displayed in the website of NERPC (under Operational Activities/OCC Approved shutdown) as per CERC regulations/ CEA guidelines etc for ensuring smooth & secure grid operation.

Furnishing request of shut down of the element, which was approved by NERPC, by Indenting Agency (ISTS licensees/STUs/Generating Companies) to NERLDC: Planned shutdown approved by NERPC shall be considered for implementation by NERLDC on D-3 basis. If an outage is to be availed on say 10th of the month, the shutdown availing agency would reconfirm to NERLDC on 7th of the month by 10:00 Hr. This practice is necessary to ensure optimal capacity utilization and the time required for associated system study/coordination by/amongst RLDC/NLDC.

It was decided in the previous OCCM that shutdown would be granted from the 1st day of the following calendar month to the 30th/31st day of the same month.

Members may please discuss.

B.6 Estimated Transmission Availability Certificate (TAC) for the month of August - September, 2021:

NETC and POWERGRID have submitted the outage data for the month of August, September 2021. So, the attributability of outage of the said elements may please be finalized.

Members may please discuss.

B.7 Mock Black Start Exercise:

The previous mock black start & restoration exercise has been conducted at various generating stations in NER on the dates mentioned in the following table:

Plant Name	Performed On	Due Date	Schedule of Testing as per 176th OCCM
AGBPP	June 2021
AGTTCCPP	09.04.2019	09.10.2019	July 2021
RHEP	March 2021
PareHEP	25.01.2020	25.07.2020	To be reviewed
Kopili HEP	10.05.2019	NA	NA

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Khandong HEP	09.05.2019	09.11.2019	To be reviewed
DHEP	12.06.2019	12.12.2019	To be reviewed
Kameng HEP	After 10.04.2021
Loktak HEP	10.12.2019	10.06.2020	To be reviewed

As per discussion in 177th OCC meeting on 22nd April 2021, schedule of Mock exercise at AGBPP and RHEP was to be finalized by NEEPCO after discussion with OEM. As per regulation 5.8 (b) of IEGC, mock black start shall be carried out by Users/CTU/STUs at-least once in 6 months. Therefore, mock black start exercises at all the generating stations is due as per dates mentioned in the above table. Procedure of Mock Black start at AGBPP was discussed and agreed in 166th OCC Meeting.

In 182nd OCC meeting it was decided that NEEPCO would revert back with the revised dates.

Members may please discuss.

B.8 Planned shutdown of Khandong and Kopili Stg-II units:

It is proposed for all the three Units of both the Power Plant shall remain under shutdown w.e.f. 01.12.2021 to 31.03.2022 for the following activities:

1. Inspection and repairing of Khadong Head Race Tunnel, Trash Rack Gate, intake Gate, Surge Shaft Gates, Steel Liner of HRT etc.
2. Acid Proof Coating of Stage-II Penstock
3. Installation and commissioning of Penstock Protection BFV System of Khandong
4. Annual Planned Maintenance of Khandong Unit# I & II.

In 182nd OCC meeting, Director(O&P), NERPC requested NEEPCO to postpone the shutdown from 04.01.2022 to 30.04.2022 so that there is no interruption of power supply during the festive period.

DGM, NEEPCO stated that intake gate and stop lock gate has to be repaired during the shutdown period. Further he stated that NEEPCO is eager to complete the works ASAP in order to avoid a Kopili like tragedy at any cost.

EE, SLDC, MeECL stated that since Misa-Kopili-Khandong link is unavailable the Khandong generation is very much essential for Meghalaya during the lean season and the suggestion of Director(O&P), NERPC may be accommodated.

In 182nd OCC meeting, it was decided that NERLDC would conduct a detailed system study and present in the next OCC meeting for discussion.

Members may please discuss.

B.9 Turning ON of SPS for Monarchak GBPP:

As per discussion in special meeting held on 20/02/2020, SPS devised at Monarchak and tested successfully on 01/05/2021 at 02:42 Hrs when line - 3 (132 KV Monarchak-Rokhia) tripped due to some line fault. SPS was operated, STG was out from grid, GTG not tripped and feeder-4 (132KV Monarchak - Udaipur) also not tripped due to overloading. Logic was devised as discussed and advised in special

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meeting on 20/02/2020. Total generation setting can be changed as per requirement. SPS is presently in disable condition and waiting the confirmation from SLDC Tripura to implement the SPS. Email containing all the details and logic diagram was sent to SLDC Tripura on 29/07/2021 with request to evaluate, confirm and clear the DC/schedule revision issue.

In 182nd OCC meeting DGM, NEEPCO informed the forum that the wiring and control logic for the scheme has been implemented, however the SPS has not been put into service due to no assent from TSECL. Further he requested TSECL to grant the following in case of SPS operation:-(i) real time schedule, (ii) Open Cycle Certification. DGM, SLDC, TSECL informed that SLDC is not empowered to take decision in this regard as it has financial implications also. The same has been put up for management approval. He assured the forum that Board Meeting will be convened soon and the decision would be conveyed to NEEPCO/NERPC.

CGM (I/C) NERLDC requested Tripura to obtain the management approval as early as possible so that the SPS may be put ON as the same is required urgently to be put in operation so that GDs at Monarchak may be avoided during tripping of 132 kV Monarchak – Rokhia or 132 kV Monarchak – Udaipur line. He also stated that the SPS may not be required after commissioning of 132 kV Monarchak – SM Nagar TL.

Members may please discuss.

B.10 Low voltage at Namsai:

In 182nd OCC meeting SE(SO&PSC), DoP Ar. Pradesh stated that due to long radial link 132kV RHEP-Ziro-Daporizo-Along-Pasighat-Roing-Tezu-Namsai severe voltage problems are being encountered. For eg. the 20MVAR Bus Reactor at Roing when it is switched ON leads to the voltage(115-118kV) being less than IEGC and when turned OFF leads to voltage(>140kV) higher than IEGC limit. He requested that the Reactor may be replaced with reactor of suitable rating. Further he enquired about the status of 132kV Roing – Chapakhowa and 132kV Rupai-Chapakhowa.

CGM(AM), NERTS informed that 132kV Roing-Chapakhowa will be completed by Dec'21. AGM, SLDC, AEGCL informed that 132kV Rupai-Chapakhowa has already been charged.

After detailed deliberation it was decided that during the pendency of completion of 132kV Roing – Chapakhowa by Dec'21, NERLDC would carry out a study and suggest voltage control means to keep the voltage in the IEGC range.

Members may please discuss.

AGENDA ITEM FROM NERPC:

B.11 Status of ADMS:

Status for Automatic Demand Management Scheme in 7 states of NER:

Name of the utility	SAT Completion	DoCO
DoP Ar. Pradesh	To be informed	To be informed
AEGCL/APDCL	07-12-2020	
MSPCL	30-11-2020	
MePTCL/MePDCL	31-08-2020	
P&ED Mizoram	26-02-2021	
DoP Nagaland	17-11-2020	
TSECL	24-12-2020	

SLDC Meghalaya shall present the “ADMS for Meghalaya”. The draft MIS report for ADMS shall be displayed in the meeting.

NERPC may please deliberate.

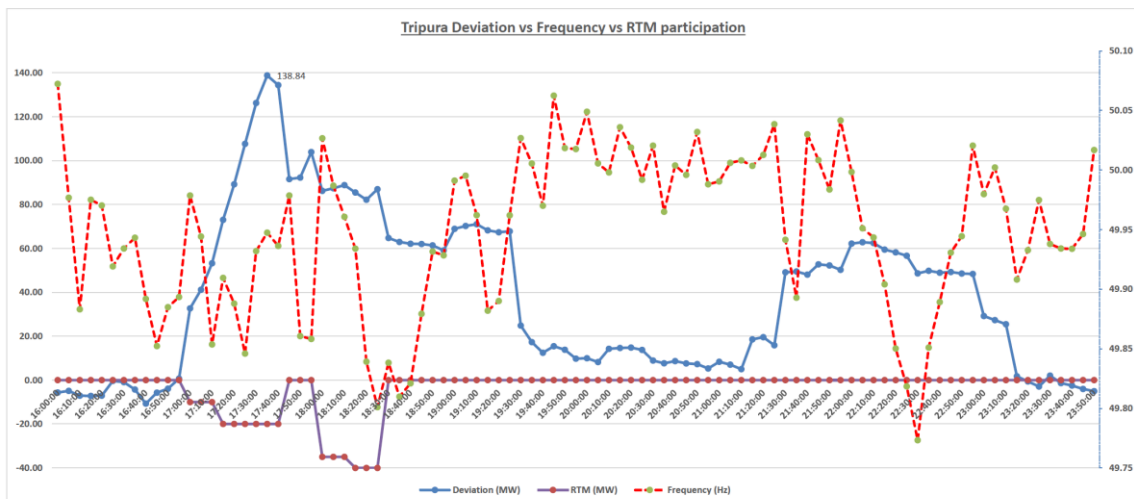
AGENDA ITEMS FROM NERLDC

B.12 Persistent overdrawal by Tripura during peak hour and at low frequency on 04.10.21:

It has been observed that Tripura has been over drawing from the grid during peak hours. On 4th Oct. 2021, the Tripura was persistently over drawing from 17:00 Hrs to 23:15 Hrs with maximum over drawl mounting to approx.138 MW. OD of Tripura mounted upto 134 MW. No significant corrective action was taken by SLDC Tripura even after numerous violation messages, emails, and telephonic instructions to Tripura for control of their over drawl. The Grid frequency was below the IEGC band for substantial period during the peak hours with minimum frequency going upto 49.77 Hz at 18:25 Hrs/04.10.2021.

Also, it is to be mentioned that there was sale of power by Tripura in RTM between 17:00 Hrs to 18:30 Hrs. Selling power in RTM during outage of Monarchak generating station (which was under planned outage till 16:00 hrs/04.10.2021) and then overdrawing from Grid significantly during peak hour is a matter of serious concern.

SLDC Tripura is requested to limit their deviation and ensure compliance of RLDC instructions in real time. Strict adherence to schedule must be ensured when gridfrequency is at alarmingly low level. Also, overdrawing from grid after selling power in RTM must be strictly avoided.



NERLDC may please deliberate.

B.13 Synchronisation issue at AGBPP on 05.10.2021:

On 05.10.2021 there was Planned shutdown of 220kV AGBPP – Maraini(PG) due to which Upper Assam gate flow was maintained around 0MW. The shutdown was returned at 16:46hrs but due to synchronizing issue at AGBPP, the line was charged at 19:00hrs after multiple attempts. During Multiple attempts the line was extended

from Mariani(PG) end but failed to synchronize at AGBPP end. During the last attempt the line was extended from AGBPP end and synchronized successfully at Mariani(PG). During this a huge load reduction of around 100MW was done by Assam to maintain Upper Assam Gate Flow.

NERLDC may please deliberate.

B.14 Availing emergency shutdown of an element multiple times for the same reason:

Emergency outages are allowed subject to system conditions and its severity by RLDC on real time basis. In recent times it has been observed that many requisitions for emergency shutdown are being applied by utilities for same element multiple times citing similar nature of emergency. Few instances for reference are listed below:

- NERTS availed shutdown of 132kV Badarpur- Kolasib multiple times on consecutive days as follows:
- Emergency basis on 25.09.2021 for vegetation clearance (loc 301-302)
- Planned shutdown on 26.09.2021 for overhauling of CB at Kolasib end
- Emergency basis on 27.09.2021 for vegetation clearance (loc 342 - 343 & 302 - 303)
- Emergency shutdown was applied on 28.09.2021 for vegetation clearance (loc 305-306) but was not permitted.
- TSECL availed shutdown of 132kV PKBari(ISTS)-Ambassa multiple times as follows:
- Planned shutdown on 01.10.2021 for vegetation clearance
- Emergency basis on 06.10.2021 for vegetation clearance
- Emergency basis on 09.10.2021 for vegetation clearance
- Emergency basis on 11.10.2021 for vegetation clearance

Multiple emergency shutdown of the same element for similar reason dilutes the essence of emergency nature. Proper checking/ patrolling of the line could have reduced the frequent outage of the lines. Utilities must avoid such practices in future and plan the shutdowns in advance.

NERLDC may please deliberate.

B.15 Low generation availability due to ongoing coal shortage and low frequency during the peak hours:

Due to the ongoing Coal Shortage condition, generation availability has reduced to a very low level throughout the country. The maximum price at DAM and RTM is touching Rs 20/kwh almost every day. The Minimum frequency has reached upto 49.50 Hz twice within a fortnight (at 18:42 hrs/24.09.21 and at 18:14 hrs/07.10.21). This alarming scenario of the grid shall have to be handled with cooperation from all stakeholders. For maintaining the grid frequency within the IEGC band following proactive steps are required to be taken:

1. Maximization of internal state generation.
2. States to carry out demand estimation and avoid resorting to deviation from the grid
3. States to Revive the units under outage to maintain reserves for meeting demand

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4. Higher DC by coal-fired stations in evening peak hours.
5. Scheduling of Hydro generating stations under state control area such that deviations as well as frequency excursions are minimized.
6. Constituents are advised to control the draws and take proactive measures to maintain and plan the schedules carefully and accurately. Also, states may purchase power from the exchanges to meet their demand & reserve requirements.
7. In case of inadequate generation to meet the state demand, state shall take measures to manage their demand suitably and keep their drawl from grid within the schedule throughout the day particularly during the evening peak hours.
8. ISGS under outage (Kameng Unit IV & Kopili Stg 2) must be revived immediately.
9. Healthiness of defense mechanisms such that UFRs, ADMS, SPS, Islanding etc. must be ensured

NERLDC may please deliberate.

B.16 Implementation of Single Phase Auto-Reclosure for 132kV Rangia-Motonga and 132kV Gelephu-Salakati :

It was discussed in 164th OCCM held on 21.01.2020 that the 3 phase GO CB at Salakati and Rangia is to be converted to single Pole CB by NERTS. The same has been implemented at Gelephu and Motanga end by Bhutan. In 6th OCC meeting between India & Bhutan held on 16th March 2021, it was informed by NERTS that the work shall be completed within 3 months.

NERLDC may please deliberate.

B.17 Installation of AWS by IMD for better weather forecasting in power sector :

RMC, Guwahati vide mail to NERLDC dated 08.09.2021 informed that inspection for site selection of AWS installation has been completed and No-Objection Certificate (NOC) is awaited for the selected sites to initiate the installation process.

The selected site list for AWS installation in NER is attached as **Annexure-B.17**. Hence, all the NER constituents are requested to provide immediate NOC for the concerned sites to RMC, Guwahati for smooth installation of AWS.

NERLDC may please deliberate.

B.18 Implementation of revised setting of Automatic Under Frequency Load Shedding in NER:

In the 19th NERPC Meeting held on 28th& 29th Nov'18, it was approved to revise the stages of the operation of UFR from existing frequency band of 49.2 – 48.6 Hz (100MW) to 49.4 – 48.8Hz (170MW) in four stages viz., 49.4 Hz, 49.2 Hz, 49.0 Hz, 48.8 Hz and the constituents agreed for the implementation of revised band of frequency and quantum of load shedding during the 148th OCC Meeting.

As per the minutes of 174th OCCM, all the states were asked to identify the feeders for additional installation of UFRs and review the existing locations of UFR installations with respect to frequency and connectivity. It was also requested from

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the states to share the detailed plan for UFR installation. However, only Assam and Nagaland had shared their updated UFR plan as per 176th OCCM.

Hence, all the states are requested to expedite the implementation of revised UFR settings and share their respective updated UFR plan.

NERLDC may please deliberate.

B.19 Frequent tripping/outage of 132kV Monarchak-Rokhia and 132kV Monarchak-Udaipur lines:

132 kV Monarchak-Rokhia and 132 kV Monarchak-Udaipur lines are a vital link for evacuation of power from TGBPP, Monarchak. 132 kV Monarchak-Rokhia and 132 kV Monarchak-Udaipur lines have tripped twenty (20) times from February'21 to September'21.

As per DR analysis most of the tripping's are likely due to solid and vegetation nature of fault.

Frequent tripping of the above lines is a matter of serious concern and effects the reliability of the evacuation path of TGBPP. Also, it signals that there is the requirement of proper & regular maintenance of these transmission elements by TSECL.

NERLDC also highlighted the same to TSECL vide letter dated 22nd Sep'21 requesting to carry out the patrolling related activities as per Cl. No 23(2) (3) & (4) of CEA grid standard Regulation, 2010 on regular basis and to identify and implement measures at the earliest to enhance reliability & resiliency of NER grid.

TSECL is requested to look into the matter on priority basis for ensuring secured & integrated grid operation.

NERLDC may please deliberate.

B.20 Load restriction in Meghalaya power system due to proposed shutdown of Khandong HEP and Kopili Stg-II from Dec'21 to Mar'22:

As per the minutes of 182nd OCCM, it is proposed that all the three units of both the Power Plants shall remain under shutdown w.e.f. 01.12.2021 to 31.03.2022 for the following activities:

1. Inspection and repairing of Khandong Head Race Tunnel, Trash Rack Gate, Intake Gate, Surge Shaft Gates, Steel Liner of HRT etc.
2. Acid Proof Coating of Stage-II Penstock
3. Installation and commissioning of Penstock Protection BFV System of Khandong
4. Annual Planned Maintenance of Khandong Unit# I & II.

As per system study conducted by NERLDC, it is observed that due to forced outage of 220 kV Kopili-Misa link, load reduction in Meghalaya system may be required. The study results suggest that, with 42 MW power support from Leshka HEP, a maximum of 250 MW load can be served to Meghalaya under N-1 contingency i.e. outage of one circuit 132 kV Uiam Stg-3-Uiam Stg1. High loading has been observed in other circuit of 132 kV Uiam Stg-3-Uiam Stg-1 (81 MW). The maximum served load may reduce correspondingly if the generation from Leshka HEP is reduced.

NERLDC may please deliberate.

B.21 Introduction of SPS in Leshka S/Sn of Meghalaya:

Proposal to set up a SPS to limit the generation of Leshka on the account of tripping of one circuit of 132 kV Leshka – Khliehriat D/C. NERPC stated that under NERPSIP 132kV Leshka-Khliehriat-II will be LILoed at 132/33kV Mynkre S/Sn. However, even after LILo of Leshka-Khliehriat-II at Mynkre, full generation of Leshka cannot be safely evacuated via the other circuit in case of N-1 contingency.

NERLDC may please deliberate.

AGENDA ITEMS FROM AEGCL

B.22 Low voltage at CALCOM Cement, Umrangsho:

M/s Calcom cement India Ltd., Umrangsho is receiving 132kV power supply from adjacent 132kV GSS AEGCL which is fed from Haflong(PGCIL) on one end and Khandong(NEEPCO) on the other end. There are issues of frequent voltage dips in 132kV line recently, thereby leading to tripping of our whole plant & huge operational losses. Recent voltage dip occurrence and plant stoppage details are given in **Annexure-B.22**

AEGCL may please deliberate.

B.23 Third Party Protection Audit:

AEGCL requests for Third Party Protection Audit of its stations, so that AEGCL may plan for Renovation and Upgradation of the same. The list is attached at **Annexure-B.23**

AEGCL may please deliberate.

B.24 Establishment of backup SLDC:

With reference to the agenda B1 of 20th NeTEST meeting, SLDC, AEGCL is planning to establish backup SLDC along with up gradation of SCADA/EMS at the existing control center. In the connection with SCADA/EMS up gradation at the existing control center a draft DPR has been circulated by NERLDC. In that draft DPR, equipment needed for SCADA/EMS has been considered for two control center. But the cost involved against equipment needed for communication network up gradation and civil infrastructure for establishing the backup control center has not been considered in that draft DPR for PSDF funding.

AEGCL may please deliberate.

AGENDA ITEMS FROM NERTS:

B.25 Temporary jumpering of 132kV Aizawl-Melriat TL (6.7km) with 132kV Aizawl-Luangmual TL(0.8km) at Dead end Tower of Aizawl SS to avail Day-time shutdown of 132kV Main Bus of Aizawl SS for 08hrs each on 10/10, 11/10 & 12/10/21 for erection of GIB/Bus Duct below 132kV Main bus area:

POWERGRID Aizawl Sub-Station (Ramrikawn) is an AIS substation having 132kV Single Main and Transfer Bus Schemes with 07(seven) nos. Bay.

Under the NERSS-VIII project, all the existing 132 kV AIS Bays shall be changed to GIS Bays (Double Main Bus Scheme) & existing equipment's (i.e. CT/CVT/LA/WT etc.) shall be dismantled along with structures. The GIS hall is ready & all GIS eqpt. Modules have been erected inside the GIS hall.

To facilitate the erection of GIB/Bus Duct inside switchyard area including area beneath the 132kV Main Bus at Aizawl SS shutdown of the following element is required:

- 132 kV Main Bus along with all associated TLs (i.e. Aizawl-Kumarghat, Aizawl-Kolasib, Aizawl-Melriat, Aizawl-Lungmual, Aizawl-Tipaimukh & Bus-Reactor) on 23/10, 24/10 & 25/10/21

Considering the above facts, it is proposed for availing the Main Bus shutdown to concerned authority for the following works :

Sl No	Date	Time (hrs)		Shutdown Equipment	Works
		From	To		
1.	23.10.2021	08:00	16:00	132kV Main Bus	Erection of T-section & L-section of GIB/ Bus-duct of Lungmual bay, Melriat bay, Kumarghat bay & Kolasib bay beneath 132kV Main Bus
2.	24.10.2021	08:00	16:00	132kV Main Bus	Erection of GIB/Bus Duct of Melriat Bay & Kolasib Bay including equipment structure beneath the Main bus area (10 mtr.) & from Main Bus section to existing CVT foundation (40 mtr.)
3.	25.10.2021	08:00	16:00	132kV Main Bus	Erection of GIB/Bus Duct of Lungmual bay & Kumarghat bay including equipment structure beneath the Main bus area (10 mtr.) & from Main Bus section to existing CVT foundation (30 mtr.)

- **Presentation on the shutdown and temporary arrangement attached at Annexure-B.25.**

To facilitate un-interrupted power flow to 132/33kV Lungmual SS of P&E, Mizoram during the proposed daytime shutdown of 132kV Main Bus at POWERGRID Aizawl (Ramrikawn), following temporary arrangement shall be done :

1. Temporary connection of 132kV Aizawl-Melriat TL (6.7 km) with 132kV Aizawl-Lungmual TL (0.8 km) in dead-end tower at POWERGRID Aizawl SS on the very 1st day of Bus-shutdown (i.e. on 23/10/21). 132/33 kV Lungmual Sub-station will be affected for 4 hrs. on 23/10/21 w.e.f 08:00 hrs.
2. After 12:00 hrs. on 23/10/2021, 132kV Aizawl-Melriat TL shall charged as 132kV Melriat-Lungmual TL as temporary arrangement
3. After 12:00 hrs. on 23/10/2021, Lungmual SS will draw power from POWERGRID Melriat SS (at Sakawrtuichhun) via 132kV Melriat-Lungmual TL. Relay setting shall

be changed at Melriat SS (PG) & Lungmual SS of Mizoram.

4. This Temporary arrangement shall be for 03(three) days (i.e. for 23/10, 24/10 & 25/10/2021). On 25/10/21 @16:00 hrs., the temporary jumper connection shall be removed with 4 hrs S/d 132kV Melriat-Lungmual TL from w.e.f 12:00 hrs of 25/10/2020.

NERTS may please deliberate.

C. ITEMS FOR STATUS

C.1. Status update of important grid elements under prolonged outage impacting system operation:

Sl. No	Element	Owner	Status as informed in the 182 nd OCCM	Latest status
1	132kV Mariani - Mokokchung (out since April'2008)	AEGCL	Inspection completed for Loc. No. 163/164/165 on 07-08-2021	
2	FSC of 400kV Balipara - Bongaigaon-4(out since 02 nd Sep'20)	NERTS	LoA placed. Completion by Apr'22	
3	132kV Roing-Pasighat (charged through ERS tower)	NERTS	2/32 piles completed. By Mar'22	
4	220kV Mariani-Mokokchung - I	NERTS	By 24.09.2021	
5	Kameng Unit-III (out since 29.07.2021)	NEEPCO	By 30-09-2021	
6	Kameng Unit-IV (out since 18.08.2021)	NEEPCO	By Nov'21	
7	Kopili Stg-II-25MW (out since 01.09.2020)	NEEPCO	By 1 st week of Nov'21	

Members may please update the status.

C.2. Status of commissioning for upcoming projects:

Sl. No	Name of the element	Utility	Status as informed in 182 nd OCC meeting	Latest status
1	132kV Monarchak-Surjamaninagar	TSECL	By Oct'21	
2	PLCC for 132kV Loktak-Ningthoukong and 132kV Loktak-Rengpang(existing lines)	MSPCL	To be intimated.	
3	Construction of 2 nd bay	AEGCL	By Feb'22	

Agenda for 183rd OCC Meeting to be held on 21st October, 2021

	at Balipara for 220kV Balipara-Sonabil-2			
4	132kV Agia- Nangalbibra-II	MePTCL	PTCC clearance awaited.	
5	Upgradation of 132kV Lumshnong - Panchgram line	MePTCL	NIT to be floated. OPGW to be included in the same.	
6	Diversion of 132kV Bawktlang-Sihhmui	NERTS	Oct'21	
7	PLCC for 132kV Karong-Kohima	MSPCL	Karong side supply completed. Specifications to be provided by MSPCL to DoP Nagaland for Kohima.	
8	132kV Loktak- Ningthoukong-II	MSPCL	Delayed due to RoW issues. By July'21	
9	132kV Roing- Chapakhowa	NERTS	Retendering done. By Dec'21	
10	132kV Rupai- Chapakhowa & Chapakhowa S/Sn	POWERGRID	By Dec'21	
11	Re-conductoring 220kV BTPS-Salakati D/C	NERTS	By Mar'22	
12	420kV 80MVAR Bus Reactor	NEEPCO	OBD 21/08/2021 LoA by Sep'21	
13	220kV Killing - Mawngap	NERPSIP	RoW Ribhoi/ East Khasi Hills districts. By Dec'21	
14	220kV Samaguri - Mariani-I	AEGCL	Forest department clearance awaited.	
15	220kV Mariani(AS) - New Mariani	AEGCL	By Oct'21	
16	400kV Imphal-Thoubal & 400kV Thoubal S/Sn	MSPCL	By Sep'21.	

Members may please update the status.

Metering agenda

C.3. SEMs to be procured for Sterlite and KMTL ongoing projects:

Agenda for 183rd OCC Meeting to be held on 21st October, 2021

NERTS confirmed over mail regarding receipt of 50 Nos. SEM and 10 Nos. DCD at Misa Substation on 23.03.2021. NERLDC prepared a list of 30 nos. SEM and 07 nos. DCD on priority basis and sent to NERTS via mail on 29.04.21. Therefore, currently a total of 20 nos. SEM and 6 nos. DCD is in stock as spare (considering 3 nos. DCD as spare from earlier 20 nos. DCD procurement and 3 nos. from the present DCD procurement of 10 nos.).

List of completion of installation of SEMs and distribution of DCD may be provided for record. Further work progress may be discussed.

NERTS may please intimate the status.

C.4. Procurement of SEM&DCD/laptop for future requirements:

NERTS may intimate the status of procurement of:

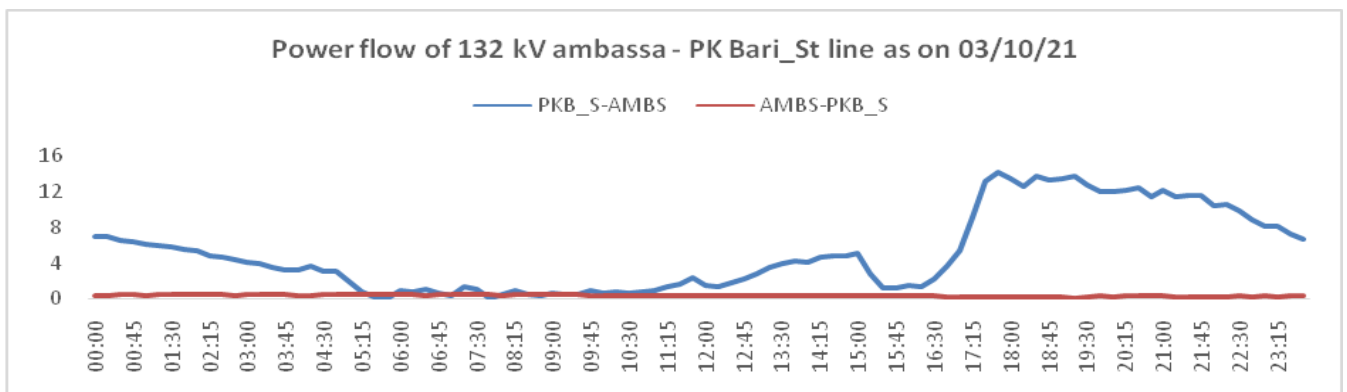
- (I) 125 nos. SEMs and 15 nos. CMRIs
- (II) Additional 40 nos. of DCD

In 181st OCCM, NERTS informed that 15 Number of DCDs will be procured by NERTS by first week of Sept, 2021.

As per discussion in 182nd OCCM , NERTS may update the status of GTG-I, 400/132kV 125MVA ICT-I& ICT-II SEMs at Palatana GBPP .

NERTS may please intimate the status

C.5. Erroneous reading of 132kV Ambassa end of PKBari-Sterlite line:



Based on round of discussions in previous OCCMs, Ambassa (TSECL) end of 132 kV Ambassa- PK Bari Sterlite line meter (Type-B) procured by Sterlite and certified by CTU installed on 28.06.21. But the data received after installation of the meter found close to 0 (zero) reading.

Matter has been communicated over mail and phone several times, but no corrective action has been taken so far. Installation of that meter, though not procured by CTU was decided by the Forum based on the importance of requirement of that meter for energy accounting.

In 182nd OCCM, the Forum requested TSECL to check for connection issue of the SEM and rectify the same (if any issue is found). Also, the Forum requested NERTS to visit the sub-station to check issue of the Type-B SEM at Ambassa.

Status may be reviewed (As per NERLDC observation, SEM still reads close to zero reading).

NERLDC may please deliberate.

C.6. Time mismatch between SEMs and ABT SEMs:

OTPC Main and check SEMs used for commercial purpose are L&T make, stand alone and sealed, the meters are battery supported (No GPS time), Our ABT SEMs are Schneider make and GPS synchronized.

OTPC plant is managing and monitoring SG on real time through ABT system. On analysis of previous few week DSM data it was observed that there is difference in Average Generation of ABT data vs SCM data which is causing Deviation though the AG is as per SG in ABT data. Mainly under injection penalty and over injection penalty i.e. as per ABT data no over injection/Under injection violation recorded however on DSM data over injection/Under injection violation recorded for few blocks.

NERLDC may suggest to explore possibility to synchronize OTPC Main and check SEMs and ABT SEMs.

In 182nd OCC meeting Members surmised that the penalty may be due to the different frequency being used for calculation of DSM because Korba frequency is used for the purpose of DSM calculation. After detailed deliberation it was decided that NERTS would synchronize with GPS the Main & Check SEMs at Palatana GBPP.

NERLDC may please deliberate.

Any other item:

Date and Venue of next OCC

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☎: +91361-2840243/06/43
Email: ddgm-rmc-guw@nic.in

NO. RMC GUWAHATI GH-I-031(EDQ)/III/ DATED 26.06.2020

To,
Mr. Palash Jyoti Baruah
System Operation-II Department
NERLDC, POSOCO

Sub : Latest status of site selection of AWS under POSOCO

Ref : Your email dated 16.06.2020

Sir,

With reference to your email dated, kindly find below the latest status as on 25.06.2020. Remaining AWS site will be selected after the normalisation of present pandemic situation.

LATEST SITE STATUS OF POSOCO (25.06.2020)

STATE : TRIPURA (Undertaken by M C Agartala)

SN	Name of sub-station where AWS required to be installed	LAT	LONG	Site approved or not
1	Grid S/S, 79 Tilla, Agartala			Site not suitable
2	S.M Nagar S/S			OK
3	Budhjungnagar S/S			OK
4	Jirania S/S			Site not suitable
5	Barmura GTP S/S			Site not suitable
6	Rokhia GTP S/S			Site not suitable
7	Banduar S/S, Udaipur			Site not suitable
8	Rabindranagar S/S, Udaipur			OK
9	SLDC, 79 Tila for SCADA integraion and monitoring			Site not suitable
10	Gamaitilla S/S, Teliamura			Site not suitable
11	Ambassa S/S			Site not suitable
12	Garotilla S/S, Kamalpur			OK
13	P K Bari S/S, Kumarghat			Site not suitable
14	Gournagar S/S, kailasahar			OK
15	Mission Tilla S/S, Dharmanagar			Site not suitable
16	Dhalabil S/S, Khowai			OK

MANIPUR

SN	Name of sub-station where AWS required to be installed	Site approved or not	
1	Yurebam	Site not suitable	M O Imphal
2	Kaishampat	--do--	

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STATE : MEGHALAYA (To be undertaken by M C Shillong)

SN	Name of sub-station where AWS required to be installed	Site approved or not
1	Byrnihat (Killing), Ri-Bhoi District	
2	Lumshnong Jaintia Hills District	Near Star Cement. Lot of dust. Site not suitable. Alternate site proposed at KHLieriat
3	Mustem West jaintia Hills District	Site suitable after slight ground labelling
4	Mynkre S/S and KHLieriat East Jaintia Hills District	--do--
5	Mendipathar East Khasi Hills District	
6	NEHU East Khai Hills District	
7	Lad Nongkrem (Mawlyndep), East Khasi Hills District	Site suitable after slight ground labelling
8	Nongstoin West Khasi Hills District LAT : 25° 30' 28.9// N LONG : 91° 14' 44.4// E AREA : 15 X12 m	Site suitable after slight ground labelling Contact Person : Mr. Nongkhlaw, RE (M) : 07640090103
9	Nangalbibra South Garo Hills District	
10	Rongkhon West Garo Hills District	
11	Ampati South West Garo Hills District	
12	Phulbari S/S, West Garo Hills District	

STATE : ASSAM

SN	Name of sub-station where AWS required to be installed	LAT	LONG	ADDRESS
1	NTPC, Bongaigaon, Salakati			OK
2	Gauripur			OK
3	BTPS			OK
4	Barnagar			OK
5	Mirza			OK
6	Rangia			OK
7	Agia			OK
8	Samaguri			OK
9	Gohpur			OK
10	Bokajan			
	Mariani	26° 63' 27//	94° 33' 50//	Mr. Mrinmoy Borah, Asstt. Manager, AEGCL, Mariani
	Nazira	26° 93' 77//	94° 74' 52//	Mr. Madhab Mandal Neog, Resident Engineer, 132 KV SS, AEGCL, Nazira
	NTPS	27° 18' 36//	95° 37' 75//	Shri Pankha Boham, Resident Engineer 220KV Grid SS, NTPS, AEGCL, Namrup
	Ledo	27° 17' 40.4//	95° 43' 48.3//	132 KV Margherita Sub Grid Station,

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				Ledo, Near LEDO PHC NILOTPAL GOGOI, RESIDENT ENGINEER (M) : 70026 34841
	Panchgram			
	Dullavcherra			

STATE : AR. PRADESH/ASSAM

SN	Name of sub-station where AWS required to be installed	LAT	LONG	ADDRESS
1	Khupi S/S			
2	Itanagar S/S(Chimpu)			OK
3	Lekhi S/S			Not suitable
4	Daporizo S/S			
5	Aalo S/S			
6	Pasighat S/S			
7	Deomali S/S	27° 12' 49//	95° 28' 33//	Sri M M Singh, Jr. Engineer 220/132/33 SS, Deomali (M) : 094360-96387/ 098625-16933

This is for your information and kind necessary action.
Thanking you,

Yours sincerely,

(S.CHAKRABORTY)
METEOROLOGIST-B
For DDGM, RMC GUWAHATI

Annexure-1

Sr.no	Date	Time	Duration	Remarks	Reason	Feedrate before tripping
1	25.09.2021	13:05	48 ms	All plant tripped	Voltage dip	200tph
2		13:23	71ms	All plant tripped	Voltage dip	
3		13:27	120 ms	All plant tripped	Voltage dip	
4		13:35	30 ms	All plant tripped	Voltage dip	
5		13:52	55ms	All plant tripped	Voltage dip	
6		14:23	29ms	All plant tripped	Voltage dip	
7		14:41	50 ms	All plant tripped	Voltage dip	
8	26.09.2021	14:07	61ms	No trip	Voltage dip (Turbo Blower, Coal mill trip)	225 tph reduced to 205 tph
9	27.09.2021	13:27	65 ms	All Plant trip	Voltage dip	
10	27.09.2021	13:33	60 ms	All Plant trip	Voltage dip	215 tph

Handwritten signature/initials
(M. S. Prasad)

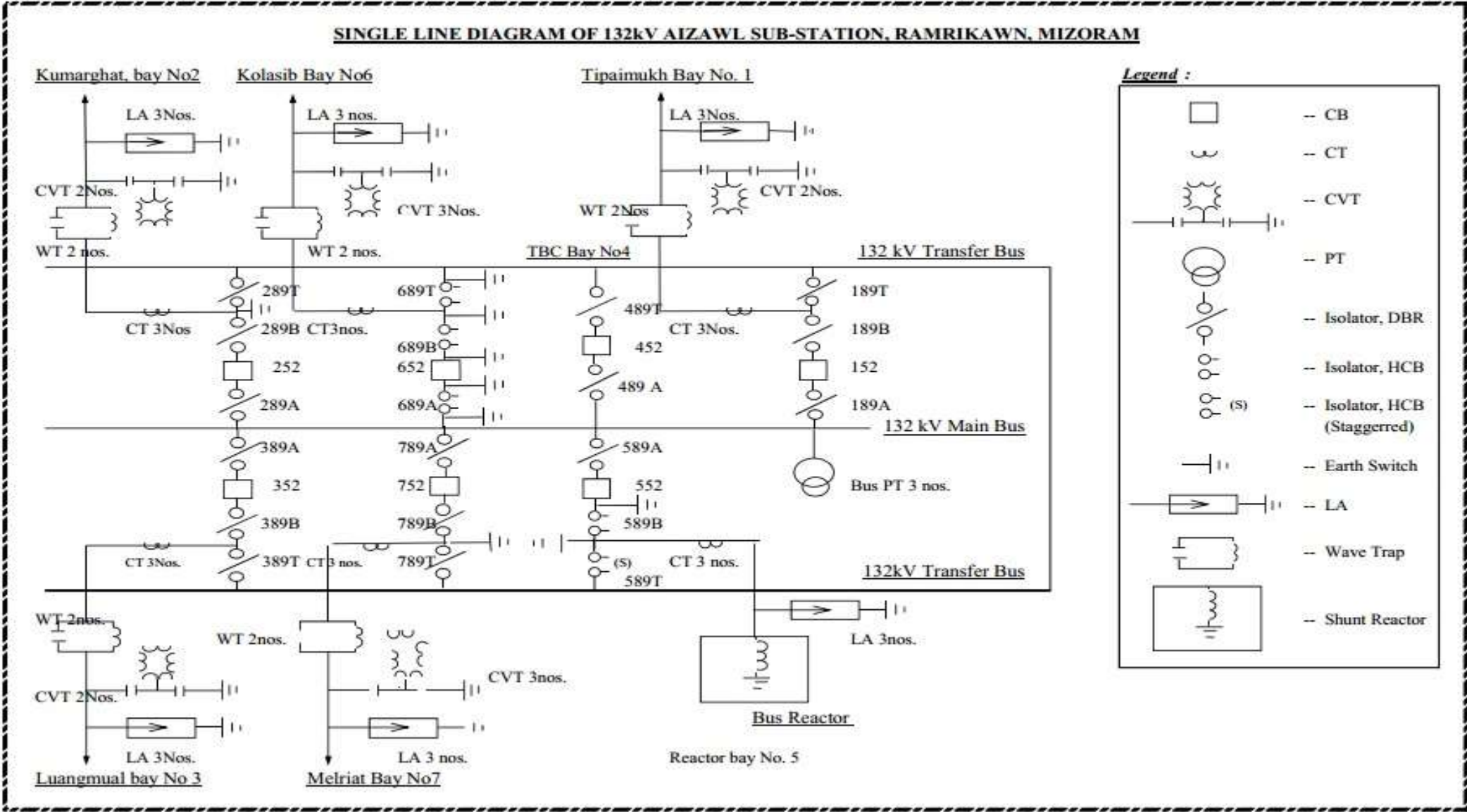
Name of Substations	Salakati
	Kokrajhar
	Gauripur
	Barnagar
	APM
	Gossaigaon
	Bilasipara
	Dhaligaon
	Kamakhya
	Capital
	Sonapur
	CTPS
	Sishugram
	Baghjap
	Narengi
	Agia
	Boko
	Matia
	Sarusajai
	Jawaharnagar
	Rangia
	Nalbari
	Sipajhar
	Kamalpur
	Kukurmara
	Azara
	Hailakandi
	Dullavcherra
	Panchgram
	Srikona
	Haflong
	Pailapool
	Rowta
	Gohpur
	Sonabil
	Biswanth Chariali
	Ghoramari
	Dhekiajuli
	Depota
	Nalkata
	Majuli
Dhemaji	
Khaloigaon	
Umrangshu	
Samaguri	
Sankardev nagar	
Mariani	

	Jorhat
	Bokajan
	Diphu
	Jorhat west
	Golaghat
	Bokakhat
	Nazira
	Sibsagar
	Sonari
	LTPS
	Dibrugarh
	Behiating
	Moran
	NTPS
	Tinsukia
	Bordubi
	Rupai
	Margherita
MRT	Bongaigaon
	Guwahati
	Silchar
	Tezpur
	Jorhat
PLCC	Tinsukia
	Jorhat
	Guwahati

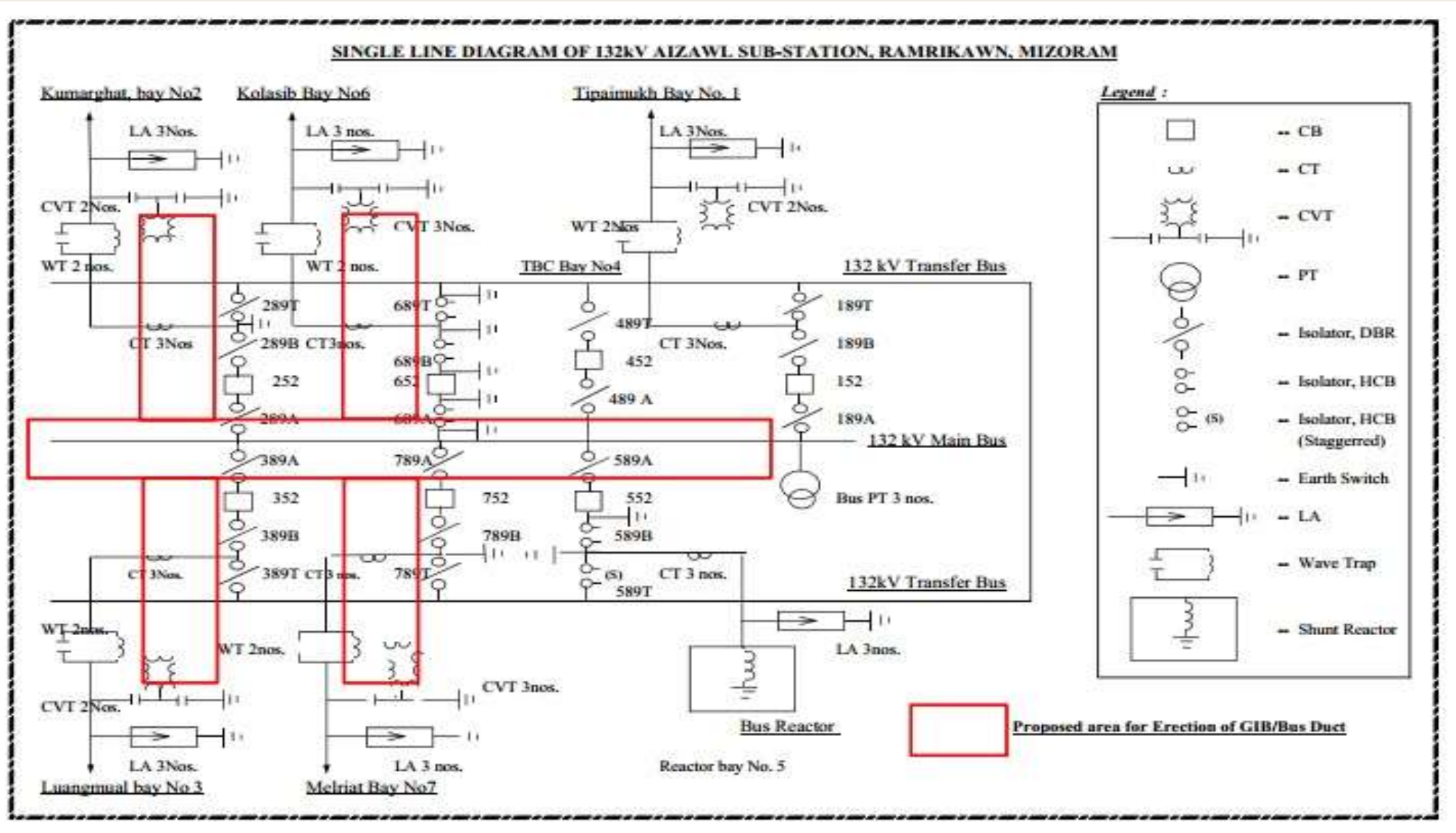


*A PRESENTATION
ON*
**PROPOSED 132KV MAIN BUS
SHUT DOWN**
AT
132KV AIZAWL GIS SUBSTATION, RAMRIKAWN

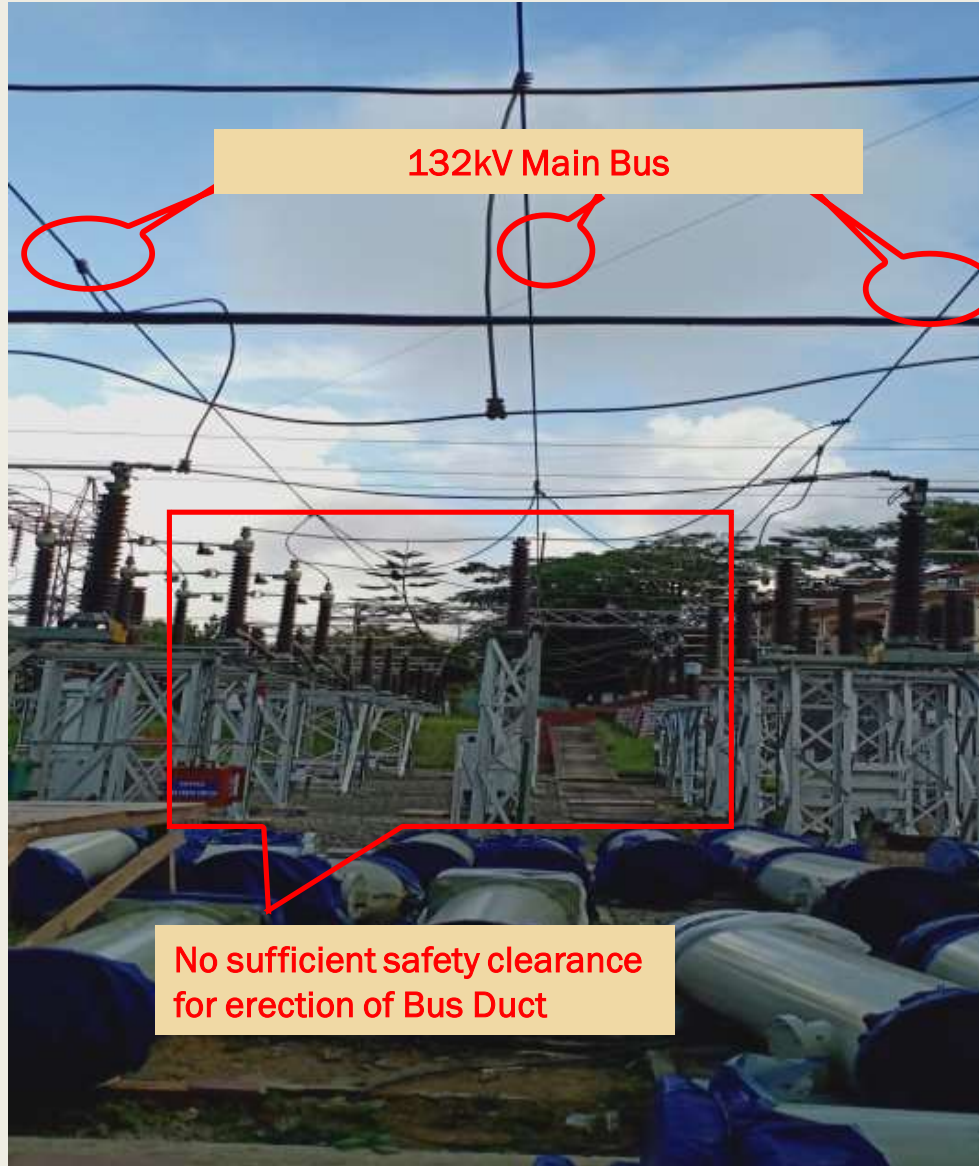
Single Line Diagram of 132kV Aizawl SS at Ramrikawn



Proposed area for GIB/Bus Duct Erection work



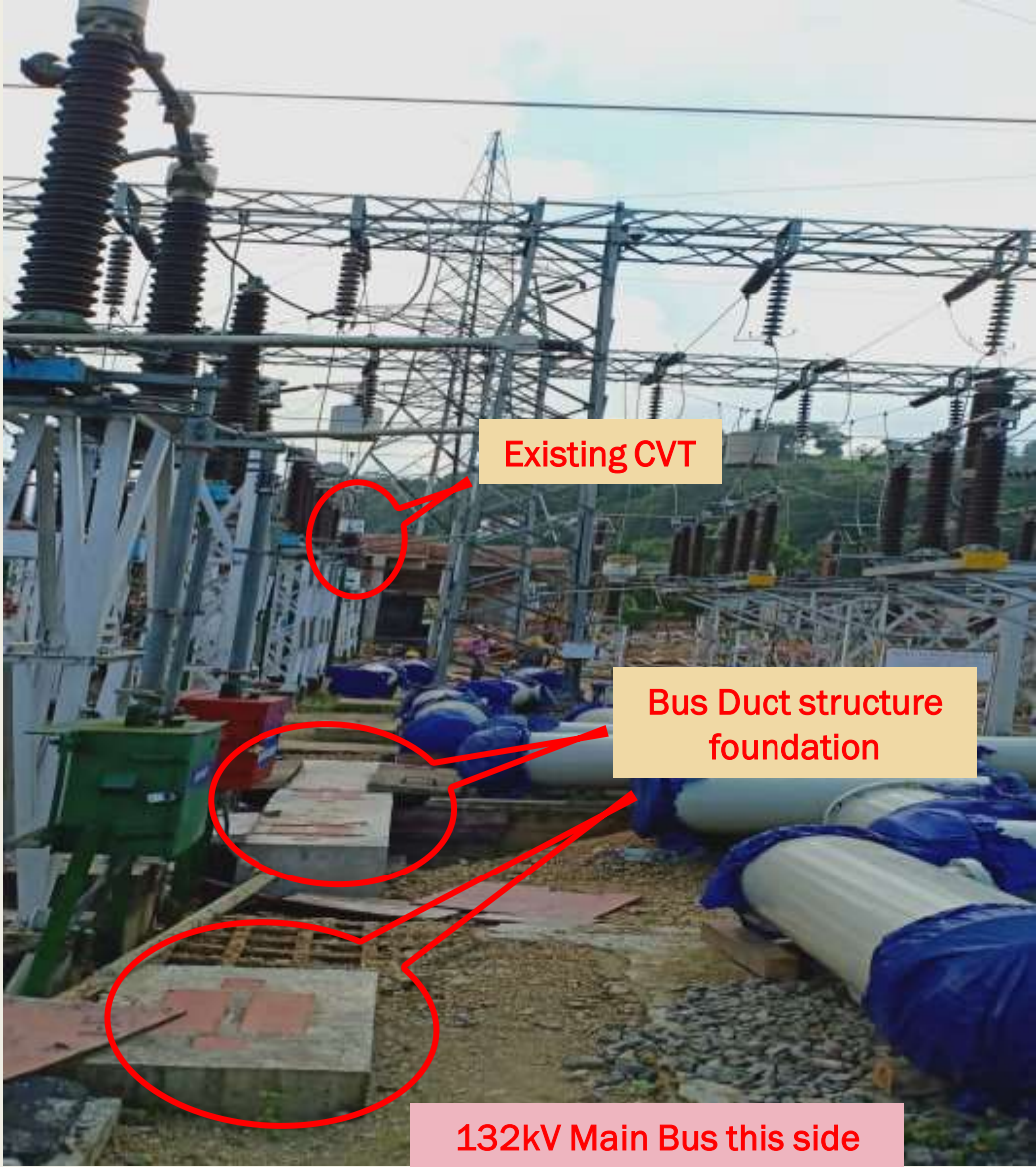
Site Constrain for GIB/Bus Duct Erection under 132kV Main Bus area



Site Constrain for GIB/Bus Duct Erection at Exit of GIS building



Site Constrain for GIB/Bus Duct Erection from Main Bus to CVT Structure



SEQUENCE-WISE SHUT DOWN REQUIREMENT (as proposed)

1. Day time shutdown of 132kV Main Bus at POWERGRID Aizawl SS has been proposed from 08:00 hrs. to 16:00 hrs. on 23/10/21 for erection of T-section & L-section in 04(four) nos. GIB/Bus Duct at exit of GIS building. Affected elements during this Shut Down period will be 132kV Kumarghat TL, 132kV Kolasib TL, 132kV Tipaimukh TL, 132kV Lungmual TL, 132kV Melriat TL & 132kV Bus Reactor (20 MVAR).
2. Day time shutdown of 132kV Main Bus at Aizawl SS has been proposed from 08:00 hrs. to 16:00 hrs. on 24/10/21 for Erection of GIB/Bus Duct of Melriat Bay & Kolasib Bay including equipment structure beneath the Main bus area (10 mtr.) & from Main Bus section to existing CVT foundation (40 mtr.). Affected elements during this Shut Down period will be 132kV Kumarghat TL, 132kV Kolasib TL, 132kV Tipaimukh TL, 132kV Lungmual TL, 132kV Melriat TL & 132kV Bus Reactor (20 MVAR).
3. Day time shutdown of 132kV Main Bus at Aizawl SS has been proposed from 08:00 hrs. to 16:00 hrs. on 25/10/21 for Erection of GIB/Bus Duct of Lungmual bay & Kumarghat bay including equipment structure beneath the Main bus area (10 mtr.) & from Main Bus section to existing CVT foundation (30 mtr.). Affected elements during this Shut Down period will be 132kV Kumarghat TL, 132kV Kolasib TL, 132kV Tipaimukh TL, 132kV Lungmual TL, 132kV Melriat TL & 132kV Bus Reactor (20 MVAR).

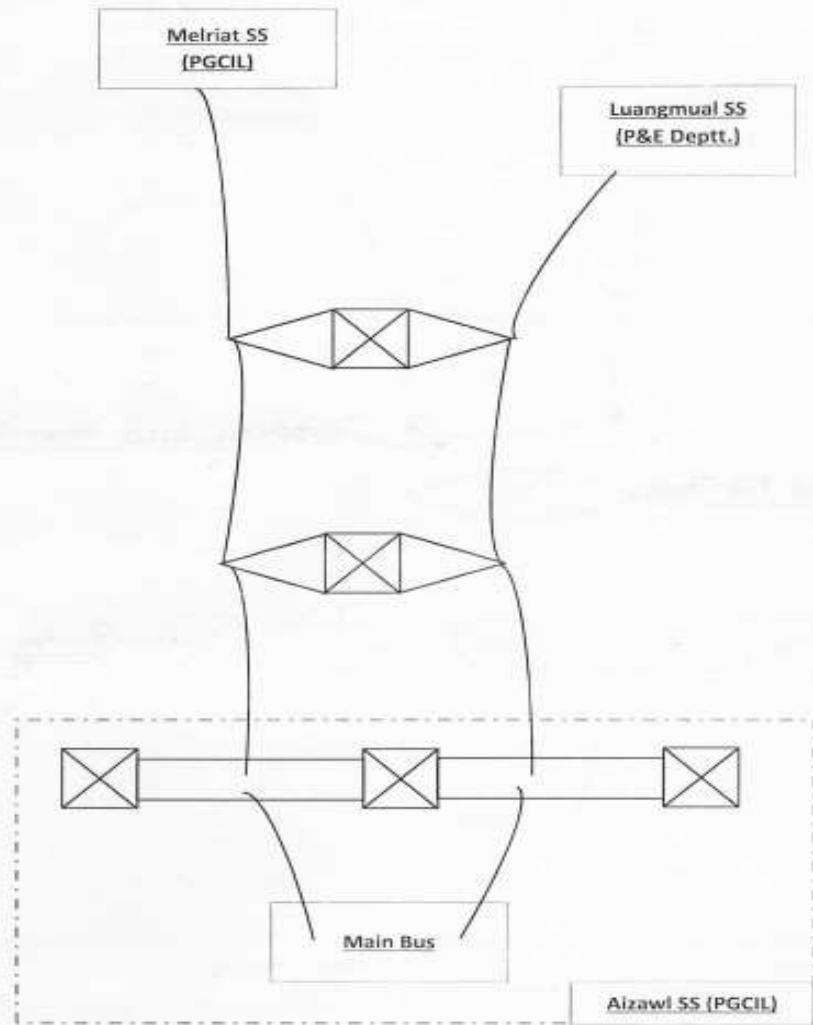
Temporary Arrangement for 132kV Lungmual SS (as per request of SLDC, Mizoram)

To facilitate un-interrupted power flow to 132/33kV Lungmual SS of P&E, Mizoram during the proposed daytime shutdown of 132kV Main Bus at POWERGRID Aizawl (Ramrikawn), following temporary arrangement shall be done :

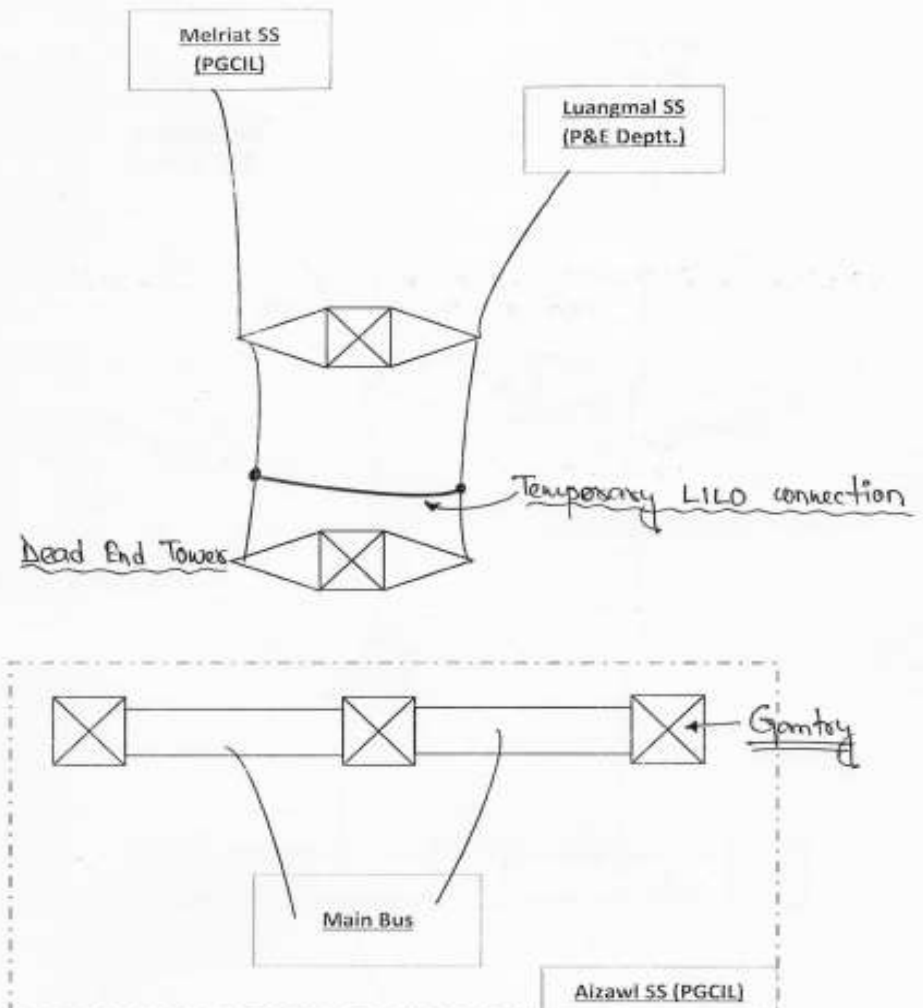
1. Temporary connection of 132kV Aizawl-Melriat TL (6.7 km) with 132kV Aizawl-Lungmual TL (0.8 km) in dead-end tower at POWERGRID Aizawl SS on the very 1st day of Bus-shutdown (i.e. on 23/10/21). **132/33 kV Lungmual Sub-station will be affected for 4 hrs. on 23/10/21 w.e.f 08:00 hrs.**
2. After 12:00 hrs. on 23/10/2021, 132kV Aizawl-Melriat TL shall be charged as 132kV Melriat-Lungmual TL as temporary arrangement
3. After 12:00 hrs. on 23/10/2021, Lungmual SS will draw power from POWERGRID Melriat SS (at Sakawrtuichhun) via 132kV Melriat-Lungmual TL. Relay setting shall be changed at Melriat SS (PG) & Lungmual SS of Mizoram.
4. **This Temporary arrangement shall be for 03(three) days (i.e. for 23/10, 24/10 & 25/10/2021). On 25/10/21 @16:00 hrs., the temporary jumper connection shall be removed with 4 hrs S/d 132kV Melriat-Lungmual TL from w.e.f 12:00 hrs of 25/10/2020.**

Temporary Arrangement for 132kV Lungmual SS (as per request of SLDC, Mizoram)

Existing Scheme of Power connection at POWERGRID Aizawl SS



Proposed Scheme of Power connection at POWERGRID Aizawl SS for GIS upgradation works



A horizontal scroll graphic with a white background and a dark grey outline. The scroll is partially unrolled, with the top and bottom edges curled up. The word "Thanks" is written in the center in a green, cursive font. The background is a light beige color with a vertical black bar on the left side.

Thanks