

Eastern Regional Power Committee

Minutes of Special Meeting on issues related to charging of 220kV Biharsharif-Tenughat line at 400 kV level held on 14th December, 2017 at ERPC, Kolkata

List of Participants is enclosed at **Annexure-A**.

Shri J. Bandyopadhyay, Member Secretary, ERPC, at the outset, welcomed Director (Projects), BSPTCL and all the other participants from Powergrid, ERLDC, JUSNL and TVNL in the meeting. He informed that this special meeting was convened as per the decision of 36th TCC on issues related to charging of 220kV Biharsharif-Tenughat line at 400 kV level. The following issues were discussed:

- TVNL informed that one 250 MVA, 400/220kV ICT was charged from 220kV side along with the line reactor which is charged as bus reactor.
- Powergrid informed that scope of POWERGRID under deposit work of TVNL has been almost completed except old ICT. The scope of POWERGRID under deposit work of JUSNL at Biharsharif has been completed except stringing of one span due to non availability of shutdown.
- Director (Projects), BSPTCL informed that after charging of 220kV Biharsharif-Tenughat line at 400 kV level, the power availability at 220kV bus at Biharsharif will reduce. Since 400/220kV ICTs at 400kV Biharsharif S/s were already overloaded, there will be a constraint to draw power from 400kV Biharsharif. He requested to expedite the installation of 4th ICT (500MVA, 400/220kV ICT) at Biharshaff which was already approved in standing committee.
- ED, ERLDC informed that due to charging of 220kV Biharsharif-Tenughat line at 400 kV level, Bihar drawl at 220kV bus will be affected and problems in 220kV system may be aggravated specially during summer peak load.
- Powergrid informed that commissioning of 4th ICT at Biharshaff will take one and half year.
- Director (Projects), BSPTCL informed that argumentation of 315 MVA, 400/220kV ICT of Pasauli with 500 MVA may be differed and the same 500MVA ICT may be utilised at Biharshaff.
- Powergrid informed that the same may be done subjected to availability of bay equipment at other places and it would take around 6 to 7 months.

A) Line termination at TVNL end

- TVNL informed that Powergrid may terminate the line at 400kV bays at TVNL
- Powergrid clarified that termination of the line is not in their scope of work. Moreover the line is belongs to JUSNL hence they cannot terminate without JUSNL concurrence.
- TVNL was advised to make an agreement with JUSNL for termination of the line and convey the same to Powergrid to do the needful.

B) Charging of 2nd 250 MVA ICT at TVNL

- It was informed that the 2nd 250 MVA ICT at TVNL should be commissioned prior to charging of the line at 400kV level for complete evacuation of TVNL generation.
- TVNL informed that Powergrid is implementing Nitrogen based fire fighting system additionally which needs consent from BHEL.
- TVNL was advised to settle the issue with BHEL and convey to Powergrid.

C) Strengthening of Line

- It was informed that that 220 kV Tenughat- Biharsharif line is in very bad shape and need strengthening before charging at 400 kV level. The ground clearance may not meet the safety clearance requirement for 400kV level between some spans. It was further informed that line spans are very long and there may be a requirement of installation of new towers.
- It was emerged that the line was jointly maintained by JUSNL and BSPTCL as per their respective geographical area. The line has total 506 towers out of which JUSNL is looking after 290 towers and rest 216 towers are being maintained by BSPTCL.
- JUSNL and BSPTCL were advised to do survey of their respective portion of the line and assess the requirements like ground clearance, sag etc for charging the line at 400kV level. A report on the assessment may be submitted by March 2018.
- JUSNL/TVNL informed that they will face problem in power evacuation during strengthening of 220 kV Tenughat- Biharsharif line due to outage.
- Powergrid was advised to expedite 220kV TVNL-Govindpur line so that TVNL power can be evacuated during outage of 220 kV Tenughat- Biharsharif line.

D) O&M of 220kV Tenughat- Biharsharif line

- JUSNL informed that the line is being maintained by JUSNL & BSPTCL jointly and JUSNL suggested that O & M of the line may be taken over by any one constituent
- Director (Projects), BSPTCL informed that they cannot maintain the Jharkhand portion because of high dense forest area. If JUSNL wants to take over the line then JUSNL may come up with a proposal.
- JUSNL and BSPTCL were advised to discuss the issue bilaterally and settle.

E) System Study

- Director (Projects), BSPTCL suggested that a system study needs to be done with the existing/future network to assess the advantage of upgrading 220 kV Tenughat-Biharsharif line at 400kV level

It was agreed that before charging of Tenughat- Biharsharif line at 400 kV level separate meeting(s) will be convened by ERPC Secretariat with JUSNL, TVNL, BSPTCL, PGCIL & ERLDC to settle other operational and commercial issues.

Meeting ended with vote of thanks to the chair.

Participants in Special Meeting on Issues Related to Charging of 220kV Bihar Shariff-Tenughat line at 400kV Level

Venue: ERPC Conference Room, Kolkata

Time: 11:00 hrs

Date: 14.12.2017 (Thursday)

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"Coming together is a beginning, staying together is progress, and working together is success." -Henry Ford