

## **ERPC :: KOLKATA**

### **Minutes of Special Meeting on “Shutdown of 400kV Farakka-Gokarno Line II” held on 14.08.2019 at ERPC, Kolkata**

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

Member Secretary, ERPC, chaired the meeting. He welcomed the participants in the meeting. He informed that the previous meeting was held on 08-08-19 to evolve a modality for allowing shutdown of Farakka-Gokarno-II line for conversion of the existing interim arrangement (400kV Farakka – Gokarno D/C) to the configuration approved by the Standing Committee on Transmission Planning in ER. The objective of the study was to assess the impact of outage of 400kV Farakka-Gokarno –I on WBSETCL system after establishment of 400kV N. Purnea-Farakka and N. Purnea – Gokarno lines as per transmission scheme planned under ERSS-V. He desired to know the outcome of the joint simulation studies carried out by WBSETCL and ERLDC.

ERLDC apprised the following in this regard:

- In the simulation, magnitudes of loads at different substations in WBSETCL have been considered to be the same as specified by WBSETCL.
- In one case, the 132kV loads of Baharampur, Amtala, Nazirpur and Domkol were considered to be purely radial on Gokarno 132kV whereas, in another case study, Amtala – Debogram 132kV D/C line and Debogram – Katawa – Gokarno 132kV D/C line were considered to be in service.
- To prevent high loading of Sagardihi 400/220, 315 MVA ICT and 220kV Bakreswar – Sadaipur D/C following contingency of 400kV Farakka – Gokarno-I line, an SPS was envisaged, which would trip the 220kV bus coupler of Gokarno S/Stn on tripping of Farakka – Gokarno-I, so that 220kV Gokarno – Sadaipur D/C, 220kV Gokarno – Krishnanagar D/C and 220kV Gokarno – N. Sagardighi D/C lines remain connected to one 220kV bus while all the 220/132kV ATRs and both the 400/220kV ICTs remain connected to the other 220kV bus at Gokarno.
- For the radially connected scenario, the voltage of the farthest 132kV bus (Domkol) from Gokarno was observed to dip to 91kV after the contingency and operation of the SPS whereas with 132kV loop closed; the post-contingency Domkol voltage was observed to be 111 kV. In both the cases however, post-contingency loading of Sagardighi ICT as well as 220kV Bakreswar – Sadaipur D/C line were found to be within acceptable limits.

Representative of SLDC, WBSETCL however informed that to eliminate any possibility of cascaded tripping, the 132kV system in WBSETCL is operated in radial mode. He further added that to avoid law and order problem during the forthcoming Puja season on account of loss of supply initiated by tripping of Farakka-Gokarno-I line, it would not be prudent to connect Gokarno with N. Purnea line in place of the existing 2<sup>nd</sup> 400kV line to Farakka before the Durga Puja festival.

Representative of PGCIL, ER-2 requested WBSETCL to allow the shutdown for commencement of power flow through 400kV N. Purnea-Farakka and N. Purnea – Gokarno lines, as these lines pass through theft prone areas.

After deliberations, WBSETCL agreed to allow the shutdown of 400kV Farakka-Gokarno-II line from 1-11-19, when the festival season would be over.

Meeting ended with vote of thanks to the chair.

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**Participants in the 2nd Meeting on "Shutdown of 400 kV Farakka -Gokarno Line II "**

Venue: ERPC Conference Hall, Kolkata

Time: 12:00 Hrs.

Date: 14.08.2019 Wednesday)

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