

ERPC :: KOLKATA

Minutes of Special Meeting on “Shutdown of 400 kV D/C Nabinagar-Sasaram Line” held on 02.08.2019 at ERPC, Kolkata

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

Member Secretary, ERPC chaired the meeting. He welcomed participants from Powergrid, BRBCL, NPGC, Eastern Central Railway, ERLDC & ERPC in the meeting. He explained that the issue was discussed in 158th OCC Meeting held on 27th June 2019 wherein, Powergrid informed that during line patrolling of 400kV D/C Nabinagar-Sasaram Line, the main leg-A and connected bracing between Leg-A & Leg-D was found deformed and bend inside, following the summer cyclone in the month of May 2019. Powergrid had requested for shutdown of 400kV D/C Nabinagar-Sasaram Line for ten days to replace the bend bracing by de-stringing of conductor and after that replacement of leg with support of derrick / hydra with proper guying arrangements. To avoid collapse of said tower, POWERGRID had provided stitching with additional tower member to safeguard the tower and kept under regular vigil.

OCC opined that no evacuation path would be available for Nabinagar generation plant during the shutdown period of 400kV D/C Nabinagar-Sasaram Line. OCC advised Powergrid to restore the line using ERS and complete the tower repairing work.

In 159th OCC Meeting held on 19th July 2019, Powergrid informed that restoration of the line using ERS would take more than 10 days as it requires destringing of 3.6 km line. The replacement of deformed / bulged leg & bracing would take 10 days. OCC decided to discuss the issue in separate meeting with the concerned utilities i.e. Eastern Railway, Bihar, BRBCL, Powergrid, ERLDC and ERPC.

In line with the OCC decision this meeting has been convened. The following deliberations were held in the meeting:

- BRBCL informed that 400kV NPGC-BRBCL line (about 10 km) was not yet completed by NPGC. Therefore, survival power to BRBCL plant will not be available during the shutdown of 400 kV D/C Nabinagar-Sasaram Line. Therefore, BRBCL requested Powergrid to carry out the tower repairing work by taking single circuit instead of double circuit shutdown.
- Powergrid informed that carrying out the tower repairing work by taking single circuit shutdown and using ERS is not possible. Powergrid assured to expedite and complete the repairing work within four days provided both line shutdown is granted.
- BRBCL added that since no alternative supply is available, the repairing work on the above line can only be started after complete shutdown of the turbine till stopping of the barring gear and the machines have to be started in cold start mode. Hence the BRBCL units will be under shutdown for one more week in addition to the shutdown period taken for the tower repairing work.
- Railways suggested that in order to have minimum interruption to Railways, the maintenance of BRBCL units may be planned during the shutdown of 400 kV D/C Nabinagar-Sasaram Line.

- ED, ERLDC suggested that if possible, 400 kV D/C Nabinagar-Sasaram Line may be connected to a nearby 400kV transmission line using ERS and jumpering arrangement for evacuation of BRBCL power during the shutdown of 400 kV D/C Nabinagar-Sasaram Line.
- During the discussion, it emerged that 400kV Daltanganj-Sasaram D/C line and 400kV NPGC-Patna D/C line are passing close to 400 kV D/C Nabinagar-Sasaram Line.
- Powergrid was advised to explore temporary connection of BRBCL power station with nearby 400kV transmission lines (i.e. 400kV Daltanganj-Sasaram D/C line or 400kV NPGC-Patna D/C line) using ERS during repair works of the defective tower of 400kV BRBCL-Sasaram D/C line. Powergrid agreed to explore the possibility for the same.
- Powergrid was advised to place the scheme in the upcoming 160th OCC Meeting scheduled to be held on 9th August 2019 at ERPC Kolkata. BRBCL and Railway were also advised to attend the 160th OCC Meeting.
- NPGC informed that 400kV NPGC-BRBCL line was planned only for drawing the start up power for NPGC station and for meeting system contingencies, if any. Contract for this line was awarded long time back and work also started but the line could not be completed due to serious ROW issues.
- It was opined that as a long term plan, the construction of 400kV NPGC-BRBCL line (10 km) is to be expedited for providing power to BRBCL under contingency. Possibility of construction of the line on cost plus basis through Powergrid may be explored for early construction of the line. It was decided to refer the issue to TCC for further guidance.
- BRBCL was also advised to plan for dedicated low voltage supply from state for meeting the emergency supply at the station.
- ERLDC suggested that to avoid situation like this in future, if there are two circuits planned for the evacuation of power from a generating station then separate single circuit towers should be planned instead of one double circuit tower.

Meeting ended with vote of thanks to the chair.

Participants in Special Meeting on "Shutdown of 400kV Nabinagar-Sasaram D/C line"

Venue: ERPC Conference Hall, Kolkata

Time: 11:00 hrs

Date: 02.08.2019 (Friday)

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