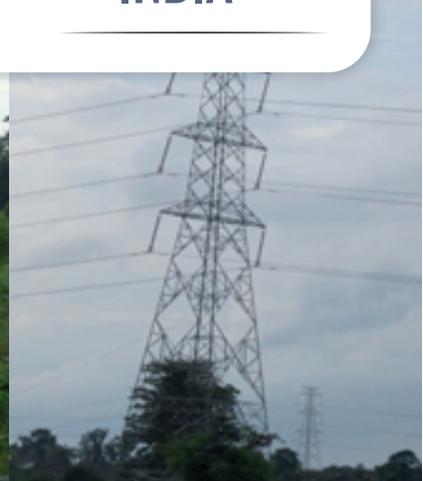




INDIA



SECURING A 400KV TRANSMISSION LINE AFTER A FLOOD IN INDIA



THE SITUATION

A 400kV transmission line owned by PowerGrid Corporation of India Ltd. (PGCIL) connecting Raipur to Bhadravati in India had tripped. In fact, a two-circuit tower, submerged in the main course of the river, had deflected backward.

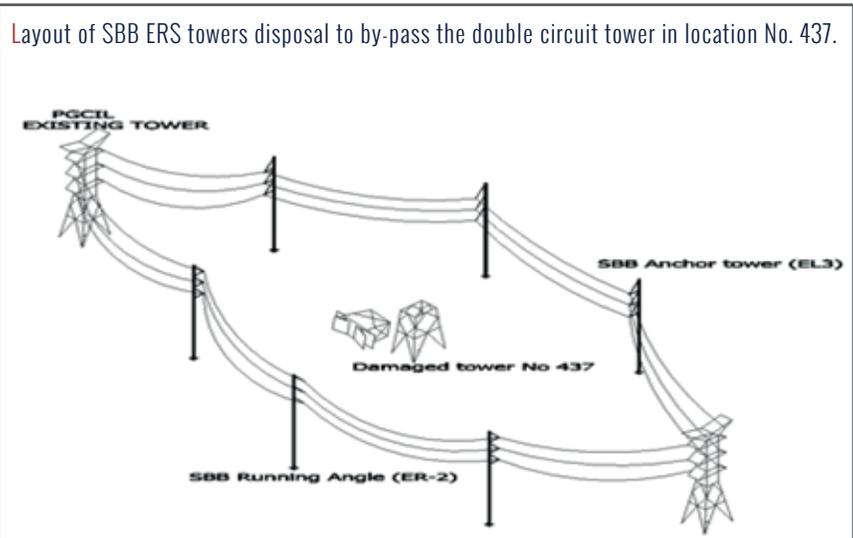
The soil was sandy and heavy erosion had occurred due to the flash flood in Satna river during the Indian monsoon season.

THE SOLUTION

In order to maintain that vital 400kV line, it has been decided to by-pass both 400kV circuits of the submerged tower (Location No 437) using SBB Emergency Restoration Systems (ERS).

PGCIL has acquired SBB towers to be prepared for this kind of situation.

Six SBB ERS towers and two teams were required to make the by-pass simultaneously: 2 tension towers and 1 running angle are to be erected for each circuit (See figure 1).



The versatility offered by the modular design and the offered field and PLS CADD/POLE software trainings helped to quickly set the restoration plan.



Picture 1



Picture 2



Picture 3

THE WORK REALIZATION

Picture 1 and 2 : The location to erect the SBB towers was very critical: Dense forest in one side and the river in the other side. No heavy machinery were required to transport the material and all components were arranged in containers, easy to access and deploy. Given that SBB ERS towers are made from light modular components, the teams were able to quickly and efficiently mobilize the material to both sides of the river.

Picture 3 : Although 3 meters extension helix anchors were mostly used, they were replaced by anchor plates for the towers EL3 and ER2 where the soil is soft and swampy.



THE CONCLUSION

The teams completed the entire installation and the 400KV Bhadravati-Raipur circuit II and III were charged successfully. The by-pass of the emerged tower on 400kV Raipur-Bhadravati line took 7 days using the SBB Emergency Restoration Systems which otherwise would have taken several weeks.

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