

## Deaerator Storage Tank erection at KAPP-3&4

For the first time in 700MWe Indian PHWR **Deaerator Storage Tank** of 40.097 M long, 4.93 M OD and 715 M<sup>3</sup> capacity, fabricated as a **single unit** and successfully lifted & erected at the designated location of Turbine Building-3 at KAPP 3&4 on 26.08.2015.

Detailed Erection Studies was carried out jointly by site execution team of NPCIL and M/s Dodsal. The Deaerator Storage Tank lifting structure was fabricated at site and load tested on fabricated cradle which was exclusively fabricated for load testing of the lifting structure.

The load capacity of LR-11350 crane for the lifting of the storage tank at required operating radius of 81.5 M was calculated to be 206 MT, while the combined load of Storage Tank, lifting structure, lifting Tackles and Crane hook was 198 MT. The job was meticulously planned and successfully executed in spite of low margin between SWL capacity of crane and load to be handled.

The Deaerator Storage Tank erected at EL 127 M in Turbine Building between grid 1-2 and A-G.

This demonstrated NPCIL site capability to handle and erect the 700 MWe Deaerator Storage Tank as a single unit. This will further strengthen the ethos of continuous learning & evolving at NPCIL, which will go a long way for future PHWR 700 MWe Nuclear Power Programme.



**Preparation for Deaerator Storage Tank Erection in TB-3**





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