

### **JUSTIFICATION OF THE PROJECT IN FOREST AREA**

Sathanur dam was constructed during the year 1954 to 1958 across the Ponnaiyar River. The dam is located at Latitude 12°11' N and Longitude 78°50' in Tiruvannamalai district. Capacity of the Dam is – 207.305 MM<sup>3</sup> (7321 M.cft).

In addition to existing surplus arrangements, a fuse plug providing fuse plug to breach @ level of +222.8m and sill @ +222.2m was considered. For the levels corresponding to the surplus arrangements above the sill level of fuse plug the outflow is determined for free flow considering it as by wash with 'CD' value of 0.437. A length of 450m had to be considered to prevent overtopping of the parapet of the nonspillway.

Construction of fuse plug constructed as per recommendation of Dam Safety Review Panel of Government of Tamilnadu.



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