



# CENTRAL WATER AND POWER RESEARCH STATION

## DESK STUDIES FOR THE DESIGN OF COASTAL PROTECTION WORK AT DABHARI BEACH, TAL. OLPAD, DIST. SURAT, GUJARAT



### STUDY OVERVIEW

The project involves a design of coastal protection works at Dabhari beach, Tal. Olpad, Dist. Surat, Gujarat. The length of proposed coastal protection works at Dabhari is 1000 m.

### APPROACH

- Desk studies were conducted to evolve a design cross-section for the coastal protection works based on the data such as beach profiles, tides, waves and the existing site conditions.
- The Design Water Level (DWL) of +8.60 m including storm surge of 1.2 m above Mean High Water Spring (MHWS) of +7.40 m is considered for the design of coastal protection work at Dabhari.
- The maximum breaking wave heights of 2.4 m at DWL in front of the structure is considered for the design purpose.

### IMPACT/SIGNIFICANCE / OUTCOME

The project aims at protecting residential properties/farms/temple situated along the seashore at Dabhari village.

### KEY FINDINGS

- The design of coastal protection works in the form of seawall with 1.5 to 2.0 t stones in the armour layer and toe berm is evolved at Dabhari.

