

DESK STUDIES FOR THE DESIGN OF COASTAL PROTECTION WORK AT VILLAGES UMARASADI MACHHIVAAD AND KOLAK, TAL. PARDI, DIST. VALSAD, GUJARAT,



STUDY OVERVIEW

The project involves a design of coastal protection works at villages Umarasad -Machhivaad and Kolak, Tal. Pardi, Dist. Valsad, Gujarat. The length of proposed coastal protection works at Kolak is 125 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 +6.00 m including storm surge of 0.6 m above Highest High Water Spring (HHWS) of +5.40 m is considered for the design of coastal protection work at Kolak.
- The maximum breaking wave heights of 3.1 m at DWL in front of the structure is considered for the design purpose.

IMPACT/SIGNIFICANCE / OUTCOME

The project aims at protecting residential areas situated along the seashore at village Umarsadi Machhivaad and Kolak.

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 Kolak.

