

PROJECT NOTE

Proposal for Diversion of Forest Land for Construction of Minor Irrigation Tank at Village Nirukhe, Taluka- Kudal, District- Sindhudurg

GENERAL:

The proposed Minor Irrigation Scheme is located across a local nalla near village Nirukhe, Taluka- Kudal, District - Sindhudurg and is administratively approved for Rs.1015.81 lacs by Kokan Irrigation Development Corporation, Thane (Maharashtra Government undertaking) dated 02/08/2004. The village Nirukhe is located at a distance of about 25 K.M. from Taluka Kudal. The proposed dam site is about 2 K.M. from village Nirukhe, Taluka - Kudal, District - Sindhudurg is in hilly area. The dam site latitude is 16° 07' 15" and longitude is 73° 48' 00" as per reference of Toposheet No.47H/12. The proposed Nirukhe Minor Irrigation Scheme consists of earthen dam, waste weir, RCC well type Head Regulator to be constructed on the local nalla. There is no scope for considering alternative site for construction of Scheme, as the area coming under submergence is minimal at this location. Also benefit cost ratio for the scheme is more than the norms.

LAND ACQUISITION:

For this scheme forest land needs to be acquired, while balance land is being acquired by Land Acquisition officer. Executive Engineer, Minor irrigation Division, Oros-Sindhudurg has inspected the proposed site. The proposal for acquisition of forest land and private land is under process.

HYDROLOGY:

The catchment area is 2.54 square K.M. The catchment of scheme is mainly in hilly area of Kokan region.

RAIN FALL, YIELD and STORAGE CAPACITY:

The rain fall data has been collected from the nearest rain gauge station at Avalegaon, Taluka- Kudal. The average rainfall in Catchment area is 3737 mm & 50% dependable yield is 7.265 M cum. The proposed gross storage of the project is 3.712 M cum.

EARTHEN DAM:

The proposed length of earthen dam is 326 M and maximum height of earthen dam in gorge portion is 34.34 M. The earthen dam consists of hearting and casing zones with impervious and pervious soil respectively. The top width of earthen dam is 4.50 M. The top bund level is 132.00 M. Full Supply Level is 129.00 M. and Full Reservoir Level is 130 M. The RCC well type Head Regulator is provided at chainage -10 M with RCC conduit. Sufficient number of trial pits were taken on dam alignment, quarry site location to ascertain the strata. It is ascertained that sufficient quantity of Hearting and Casing material is available within lead of 1 or 2 K.M. from quarries in submergence area. The Ogee type 46.00 M length RCC waste weir is proposed.

RECOMMENDATION:

The proposed Minor Irrigation Scheme is located at village Nirukhe Taluka - Kudal, District- Sindhudurg. The project is demanded by the villagers for irrigation and drinking water purpose. The scheme is administratively approved on 02/08/2004. For this scheme Private and Forest land needs to be acquired. The topography of the project is such that there is no alternative alignment available to avoid the forest land. This proposed scheme is surrounded by Forest land, but there is no other sustainable source for Irrigation and drinking purpose for Nirukhe and adjoining villages. This is the unique site for the project; hence the Government has given Administrative approval to the Nirukhe Minor Irrigation Scheme.



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Date - 24/05/2021

Place - Kankawali