

PROJECT NOTE

Proposal for Diversion of Forest Land for Construction of Minor Irrigation Tank in Nirukhe Village Tal- Kudal Dist- Sindhudurg

GENERAL :

The proposed Minor Irrigation Scheme is located across a local nalla near village Nirukhe Tal kudal Dist. Sindhudurg is administratively approved for Rs 1015.81 lac by Konkan Irrigation Development Corporation, Thane (Maharashtra Government undertaking) dated 02/08/2004. The village Nirukhe is located at a distance about 25 m away from Taluka Kudal. The proposed dam site is about 200 km from village Nirukhe Tal Kudal Dist Sindhudurg is a hilly area. The dam site latitude is 16° 07' 15" and longitude is 73° 48' 00" with reference of Toposheet No.47H/12. The proposed Nirukhe MI Scheme is earthen dam, waste weir, RCC well type Head Regulator on the local nalla. There is no scope for considering alternative site considering the storage and coming under submergence is minimum. BC ratio is more than the norms, existing natural high ground profile on both the flanks and other aspects.

LAND ACQUISITION:

For this scheme forest land needs to be acquired as remaining 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 private land is under process.

HYDROLOGY :

The catchment area is 2.54 sq km. The catchment area is hilly area in Konkan region.

RAIN FALL:

The rain fall data has been collected from the nearest rain gauge station at Avalegaon Tal Kudal. The average rainfall in Catchment area is 3736.65 mm & 50% dependable yield is 7.265 Mcum. Gross storage is proposed for 3.712 Mcum.

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 level is 131.50 M. FSL is 129.00 M. and F. RL is 130 M. On U/S and D/S side slopes of earthen dam 0.30M pitching is proposed with 0.15 M thick quarry spools. The Rock toe is proposed on D/S toe of earthen dam up to H/O height of dam. Bottom width of COT is proposed 5.00 M with 0.60 M depth in hard rock. The RCC. well type Head Regulator is provided ch. -10 M with RCC conduct. Sufficient number of trial pits are taken on dam alignment, quarry site location to ascertain the strata. It is ascertained that sufficient quantity of Hearting and Casing material is available with a lead of 1 and 2 km. from Quarry in submergence. The Ogee type 46.00 M length RCC waste weir is proposed.

RECOMMENDATION:

The proposed M.L Scheme is located at village Nirukhe Tal kudal, Dist Sindhudurg. The project is demanded by the villagers for irrigation and drinking water purpose. The scheme is administratively approved dated 02/08/2004. For this scheme private land Forest land needs to be acquired. The topography of the project is such that there is no single alternative alignment available to avoid the minimum forest land. This proposed scheme is surrounded by Forest land, but there is no single source for irrigation and drinking purpose for Nirukhe village. This is the unique site for the project, hence the Government has given Administrative approval.



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