

OFFICE OF THE EXECUTIVE ENGINEER

SANJAY SAGAR PROJECT BAH RIVER DIVISION GANJ BASODA

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Semal Khedi Teerth Irrigation Tank Project Justification

A note containing justification for location the project in forest land Semal Khedi Teerth Irrigation tank project envisages construction of earthen bund near village Semal khedi on the Chakna river. Which has of catchment area 70.88 Hectare the project is proposed to serve the need of productive irrigation of 1240 hector. A detailed extensive survey has been carried out to achieve minimum submergence area and optimum project cost. For this purpose a study is done for the the alternative dam site with different height and finally FTL is decided.

It provide that either by shifting dam location of increasing the capacity. The submergence area would be increased, thus submergence forest area would be increased. Therefore present proposal is decided with minimum submergence of forest area of 70.88 hectare with 6.884 Mcum live storage and to serve rain fed area 1.58 Msqmtrs.

Date : 08/12/2017



(K.D. Ojha)

Executive Engineer

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SEMAL KHEDI TEERTH TANK PROJECT
BRIEF DESCRIPTION OF ALTERNATIVE SITE


After carrying out the topographical survey of the proposed basin threedam Alignments has been marked and studied with merits and demerits of each.

Alignments No. 1- It is located across deep gorge and river bed is suitable for foundation. The available capacity of dam 6.884 MCM. The height of Dam is lowest in comparison to other two alternative sites with minimum Forest area of 70.88 ha. Hence Alternative No.1 is best suitable site, and hence finalized based on data mentioned below.

Alignments No. 2- Alternate No. 2 is Located at 0.680 Km Downstream of the proposed site along the river. The Height of Dam and Forest Area Increases in This location.

Alignments No.3- Alternate No 3 Located at 0.90 Km Downstream of the proposed site along the river. The Height of Dam and Forest Area Increases in This location.

Salient Feature	Alternate-1 (Proposed)	Alternate-2	Alternate3
Coordinates	24° 9'42.65"N 77°39'15.17"E	24° 9'47.32"N 77°39'29.42"E	24° 9'48.46"N 77°39'41.63"E
Dam Storage (In MCM)	6.884	7.01	7.45
Submergence Area (In Ha.)	158.00	179.22	195.89
Govt. Land (in Ha)	29.00	35.77	40.23
Private Land (In Ha.)	58.12	68.54	79.88
Forest Land (In Ha.)	70.88	74.91	75.78
Catchment Area (inSq.km)	41.00	43.40	44.15
FTL (In m)	484.15	484.15	484.15
Height of Dam (in m)	23.06	23.60	24.00


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