

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

  
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