BATTISA NALLAH MINOR IRRIGATION PROJECT, SIROHI

PROJECT DETAILS

Salient Features Longitude 72° 52' 38.48" N, Latitude 24° 30' 41.39" E

1. A masonry non-overflow dam (gravity section) portion between R.D. 4.0 M to RD 15 m and RD 331 m to 348 m (Length 28.00 m)
2. A Masonry overflow (gravity dam) section with ogee shaped crest and D/s stilling basin between RD 15 m to 331 m (Length 316.00 m)
3. Head outlet sluice at RD 340.0 m with Sill RL 314.50 m
4. Maximum height of Dam from deepest Nallah bed is 31.70 m.
5. Average rainfall : 641.70 mm
6. Catchment Area : 162.51 Sq. Km.
7. Available yield at 50% dependability : 629.09 mcft
8. Gross storage Capacity : 577.40 mcft
9. Live storage Capacity : 500.61 mcft
10. Submergence Area : Total : 158.02 Ha
    Forest Land : 91.202 Ha
    Private and Govt. Land : 66.818 Ha
11. Water to be reserved for Drinking Purpose : 269.80 Mcft
12. Water available for Irrigation : 230.81 Mcft
13. Gross Command Area (GCA) : 1620.00 Ha
14. Culturable Command Area (CCA) : 900 Ha
15. Irrigable Command Area (ICA) : 450.00 Ha
16. F.T.L. : 331.00 M
17. M.W.L. : 332.75 M
18. T.B.L. : 334.25 M

Masonry non-overflow dam section from RD 4.0 to 15.00 m and RD 331.00 to 348.00

A masonry non-overflow has been proposed from RD 4 m to 15 m and RD 331 to 348 m on both side flank. The non-overflow has been designed as a gravity dam. The dam has been proposed to be founded on the hard rock strata available. The flood lift of 1.75m & free board of 1.50 m has been provided.

OVER FLOW SECTION

Over flow section from RD 15.0m to RD 331.0 in length of 316.0 M has been proposed with flood lift of 1.75M.

It is proposed to construct over flow portion as masonry dam with R.R. stone masonry in CM (1:5) in hearting and U/s & D/s face shall have of casing of Reinforced cement concrete of thickness 1.5 M and 1.0 m respectively.

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