



A.Y. DADABHAI TECHNICAL INSTITUTE, KOSAMBA



DEPARTMENT OF CIVIL ENGINEERING

Visit Report

29/03/2022

at

MADHUBAN DAM



Prepared by:
4TH SEMESTER (BATCH-2020, 2ND YEAR)

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ACKNOWLEDGEMENT

- ❖ The students of Civil engineering Department, were really thankful to our principle and head of department of civil branch of AYDTI, Mr.N.J.Patel and Lecturer Mr.S.y.patel, Mr.M.I.Shaikh ,Ms. D.K.Master respectively for an educational visit of Madhuban Dam.

- ❖ We are also very thankful to the authority of Maduban Dam Project site which provided us an informative guidance and gave practice based approach learning to students and shared their knowledge with students.

Purpose of Visit

Our main purpose of the visit was to be familiar with experience of field work and to get practical knowledge of routing of canal and directing water through dams and distribution of water. Students of civil branch will get the idea of dams and canals and their purposes. Students will also get familiar with catchment area, hydraulic gates, and level of water, wing wall and body wall.

What We Learnt

Madhuban Dam is located approximately 40 km on the downstream of the river Damini Ganga. It was built jointly by the Government of Gujarat and the Union Territories of Dadra and Nagar Haveli.

At around 11:00 AM, we reached Dam site, During Site visit Deputy Executive engineer Mr. Nilesh Rathod sir well explained about Madhuban Dam site.

INFORMATION

Location	Village: Madhuban Tal.: Dharampur, Dist.; Valsad
Purpose	Irrigation, water supply and power generation
River	Damanganga
Area of catchment	1813 Km ²
Mean annual runoff in the catchment	3771.60 Mm ³
Mean annual rainfall	2382 mm
Year of commencement of construction work	1973-74



ABOUT DAM:

Type	Composite
Bed Rock	Basalt
Maximum height above the lowest point of foundation	58.60 m
Length at the top of the dam	2870 m
Total Volume Content:	
Concrete	0.085 Mm ³
Masonry	0.30 Mm ³
Earthwork	11.46 Mm ³

Details of Reservoir:

Area at full reservoir level	51.44 km ²
Gross storage capacity	567 Mm ³
Effective storage capacity	502 Mm ³

This dam with its spillway discharging capacity of 22,040 m³/second (30.70lac). For Ogee spillway, 10 Radial gates each having size 15.55 x 14.02 m and the length of spillway is 155.47 m.

Details of canal:

Length of canal	98.40 km
Capacity	34.76 (Right) 11.46 (Left) m ³ /s
Gross command area	77905 ha.
Culturable command area	56070 ha.

The Estimated cost of Dam was Rs.16051.00 lacs & Expenditure upto March, 1987 is Rs. 12189.18 lacs.

Conclusion

From this visit, we got information and practical knowledge about distribution of water and storage of water. Students were also made aware about different protection measures used in headwork. They learnt about new technology about hydraulic gates and system of canal. About 17 students were benefited from this visit as they got chance to discuss with authorities working at dam.

Thus, this site visit was very delightful and we had a great knowledgeable experience. We were really satisfied and had a great time.

Photogallery



