

ID :3478 Bidalana Bridge _ _ _ _ _

on Chainage 2.750 of Thano Bhogpur road

In District Dehradun Under TD Rishikesh Division

Bridge Inventory Report

Division: TD Rishikesh

Data not-yet finalized

General

Name of Division : 53

Revenue Block Name : 33

Chainage (at Mid Point) : 2.750

Road/ Segment Name : 349

Bridge Type : Motor Bridge High Level

Structure No : 1/2

Feature Intersected : Bidalana River

Name of Bridge : Bidalana Bridge

Nearest Town : Thano

Latitude (Northing) : 30.22154000

Longitude (Easting) : 78.22156700

Construction Year : 2023

Inventory Year : 2024

Geometric

Overall length (in meter) : 240.00

Total No of Span : 5

Maximum Span (in meter) : 48.00

Span Arrangement : 5x48.00

No of Lane : 2.000

Overall Width (m) : 12.000

Carriageway Width (m) : 7.500

RS Footpath Width (m) : 1.750

LS Footpath Width (m) : 1.750

Approach Width i/c Shoulders (m) : 11.000

Gradient (%age) : 3

Skew Angle (degree) : 0.00

Radius of Curve in Plan (if Any) : 0.00

Design Data

HFL Highest Flood Level : 638.000

OFL Ordinary Flood Level : 637.500

LWL Low Water Level : 635.500

Design Velocity (m/Sec) : 2.83

Design Discharge (Cumecs) : 1248.00

Soffit Level at Centre : 637.150

Road Level at Centre : 644.000

Design Scour Level at Pier : 632.000

Design Scour Level at Abutments : 632.000

Exposure Condition : Moderate

Seismic Importance factor : 1.0

Design Loading : Class A

Load Rating : Class A

Super-Structure

Superstructure Type : Solid slab

Superstructure Material : Pre-stressed concrete

Wearing Coat Type : Cement Concrete

Expansion Joint Type : Modular Strip/Box Seal Joints

Railing/Crash Barrier type : Cast-in-situ concrete

Bearing type : POT PIN

Sub-Structure

Founding Strata : Sandy

Abutment Foundation Type : Well

Pier Foundation Type : Well

No of Piers : 4

Abutment Type : RCC buttressed type

Pier Type : RCC Hollow

Protection Work

Bank Protection Left Side of Up-stream : R.C.C. Wall

Bank Protection Right Side of Up-stream : R.C.C. Wall

Bank Protection Left Side of Down-stream : R.C.C. Wall

Bank Protection Right Side of Down-stream : R.C.C. Wall

Floor Protection on Up-stream : N.A.

Floor Protection on Down-stream : N.A.

Treatment for Corrosion Protection (if any) : Zinc Paint

final

Name of JE/AAE :

