

GAULA BARRAGE

The Gaula River is a river which originates in Uttarakhand State of India flows south past Kathgodam, Haldwani, and Shahi, finally joining the Ramganga River about 15 km (9.3 miles) northwest of Bareilly in Uttar Pradesh. Ramganga in turn is a tributary of the river Ganges.

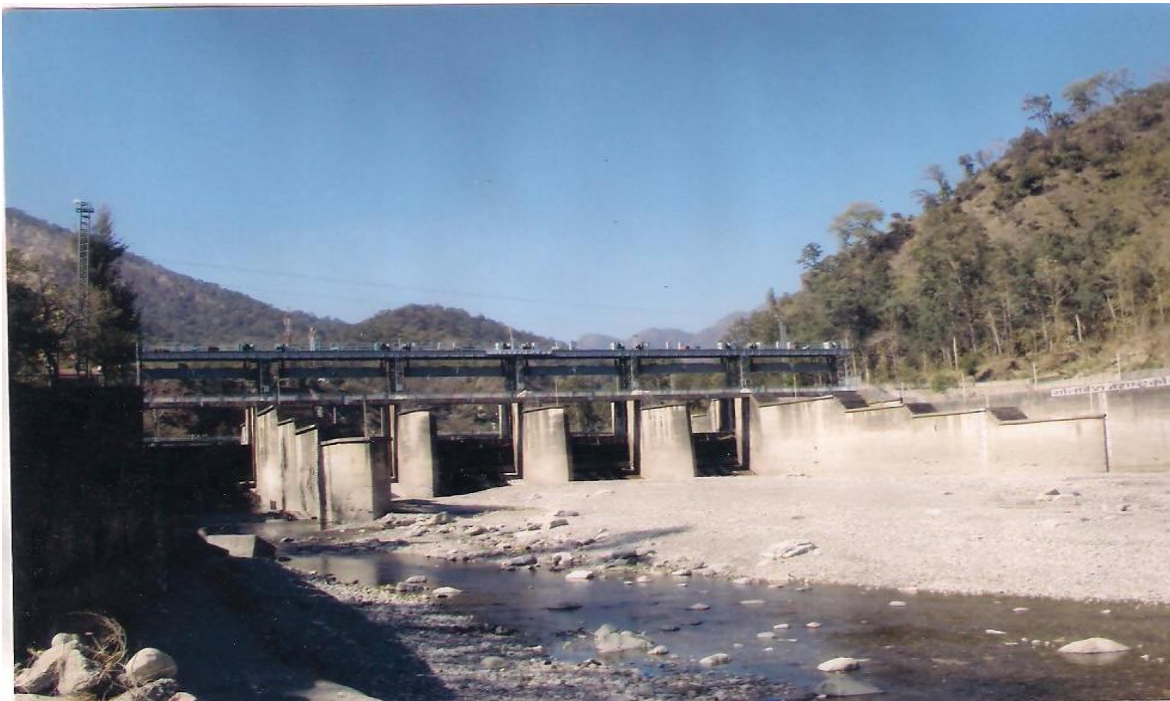
A barrage on this river, known as the Gaula Barrage, is located at Kathgodam. The barrage is a landmark structure of Uttarakhand Irrigation Department. It provides drinking water to Haldwani city & irrigation water for the bhabar fields.

Salient Features

1	Name	Gaula Barrage
2	District	Nainital
3	Tehsil	Haldwani
4	(a) Latitude	29°16'18"N
	(b) Longitude	79°32'51"E
5	Hydrology	
(a)	Normal Monsoon Rainfall	1500 MM
(b)	Minimal Monsoon Rainfall	547 MM
(c)	Normal Annual Rainfall	1645 MM
(d)	Name of Main River	Gaula River
(e)	Catchment	
i	Type	Hilly
ii	Area	250 Sq. Mile/617.5 Sq.Km
6	Value of " C "	1350 Dickens
7	Length Of Barrage	
	Bays	6 X 11.50
	Piers	3 X 2
	Divide Wall	2 X 3
	Total	81.00 M.
8	Designed Discharge	115000 Cusec./3250 Cumec.
9	Maximum Discharge Passed in the year 1993	123000 Cusec.
10	Maximum Pond Level	510.750 M.
11	U/S floor level of Sluice	506.500 M.
12	U/S floor level of Barrage	506.500 M.
13	Sill level of Sluice	506.500 M.
14	Sill level of Barrage	506.500 M.
15	Size of Gates	11.50 M X 4.50 M.
16	No. Of Gates	06 Nos.
17	RL of Top Of Gates	511.000 M.
18	RL of top of U/S Pier	516.000 M.
19	RL of top of D/S Pier	514.250 M.
20	RL of top of Stanchion Legs	522.250 M.
21	RL of top of D/S floor & Apron.(Gate no. 1)	502.500 M.
22	RL of top of D/S floor & Apron.(Other Bay)	502.000 M.
23	RL of top of D/S Wing Walls	514.000 M.
24	High Pond Level	513.250 M.
25	Length of U/S Floor of Sluice (Impervious +Pervious+ Toe Wall)	(5.00+4.75+0.90)= 10.65 M.
26	Length of U/S Launching Apron of Sluice & Barrage	10.00 M.

27	Length of D/S Floor of Sluice (Impervious +Pervious+ Toe Wall)	$(35.75 + 9.20 + 1.20) = 46.15 \text{ M.}$
28	Length of D/S Launching Apron of Sluice & Barrage	5.00 M.
29	Length of D/S Floor of Barrage (Impervious +Pervious+ Toe Wall)	$(35.75 + 9.20 + 1.20) = 46.15 \text{ M.}$
30	Details of Sluice Gates	
31	Length of U/S Divide Wall	22.00 M.
32	Length of U/S Divide Wall	55.50 M.
33	Length of U/S Piers	8.25 M.
34	Length of D/S Piers	9.50 M.
35	Clear Width of Road Bridge	1.90 M.
36	Angle of Off take of U/S at flank from Barrage	110°
37	Rate of opening of Barrage Gates	0.30 M. per minutes
38	Rate of opening of Barrage Gates	0.30 M. per minutes

IMAGES OF GOLA BARRAGE



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