

## Emerald Dam

<b>Location</b>	11.3278° N, 76.6206° E
<b>State</b>	Tamil Nadu
<b>Nearest City</b>	Uthagamandalam
<b>Year of Completion</b>	1961
<b>Operated and Maintained by</b>	Tamil Nadu Electricity Generation and Distribution Corporation
<b>River Basin</b>	Cauvery
<b>River</b>	Emerald
<b>Dam Type</b>	Earthfill Embankment
<b>Height above lowest foundation level</b>	65.0 m
<b>Dam length</b>	323.0 m
<b>Reservoir Area</b>	8060000.0 m <sup>2</sup>
<b>Gross storage capacity</b>	156200000.0 m <sup>3</sup>
<b>Effective storage capacity</b>	152800000.0 m <sup>3</sup>

## CATCHMENT CHARACTERISTICS

Catchment Properties	Values
<b>Area of catchment</b>	30.8 km <sup>2</sup>
<b>Perimeter of catchment</b>	24.8 km
<b>Basin Length</b>	6363.7 m
<b>Form factor</b>	0.76014
<b>Circularity ratio</b>	0.63164
<b>Elongation ratio</b>	0.98346
<b>Highest Stream order</b>	6
<b>Max elevation</b>	2531.0 m
<b>Min elevation</b>	1923.0 m
<b>Mean bifurcation ratio</b>	3.7372
<b>Stream frequency</b>	77.5750 per km <sup>2</sup>
<b>Relief</b>	608.00 m
<b>Drainage density</b>	11.3930 km/km <sup>2</sup>
<b>Length of overland flow</b>	43.886 m

## CATCHMENT CLIMATOLOGY

