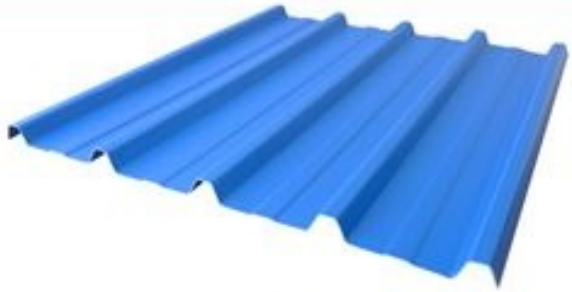
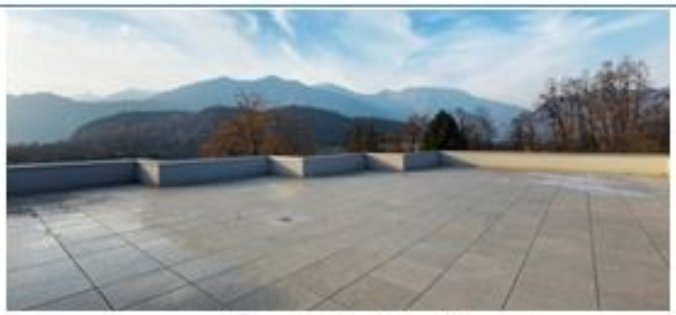
How Much Rain We Can Store

Calculate the amount of Rain water you can store

Material	Runoff Coefficient
 Galvanised Iron (GI) sheet	0.9
 Asbestos	0.8
 Tiled Roof	0.75
 Concrete Roof	0.7

Runoff Coefficients for type of material of roof

Supposing you live in a family of four in Pune in a house with asbestos roof of size 5m x 5m.

Annual average rainfall	=	722 mm (for Pune)
Area of roof	=	25 m^2
Runoff coefficient	=	0.8 (for Asbestos)
Water available from roof top	=	Annual rainfall (in mm) x Area of roof (in m^2) x Coefficient of runoff for the roof
	=	722 x 25 x 0.8
	=	14440 Litres
Per capita availability	=	Availability / No. of Persons
	=	14400 / 4
	=	3610 Litres per Capita
Per day per capita availability	=	Per capita availability / No. of Days in a year
	=	3610/365
	=	Say 10 Litres Per Capita Per Day
Per capita drinking water demand in Urban area	=	**5 Litres Per Capita Per Day**

As is clear from this example Rooftop Rainwater Harvesting can be a great option to meet the household drinking water demands, the only constraint being the storage options available.

Next Chapter >>
Design of Roof Top RWH System