H_2O-Energies

WATER FILTRATION AND PURIFICATION SYSTEMS

From the plainest to the most sophisticated configuration, according to with different topological variables and water quality.

WITHOUT FILTER	WITH FILTER		
A	**B**	**C**	**D**
Water Turbidity lower than 5 UTF *	Water Turbidity from 1 through 5 UTF	Water Turbidity from 1 through 50 UTF	Water Turbidity higher than 30 UTF
Origin :	**Origin :**	**Origin :**	**Origin :**
River whose fall is higher than 1.50 m above ground level.	River whose fall is higher than 4.50 m above ground level	Same conditions as per plan **B**	Same conditions as per plan **C**
Or	Or	**But**	**But**
Watertank (e.g. 1.000 litres) whose water is brought by a tanker.	Pumping from a river or from a well.	It is necessary to add flocculation so as to hold the silt, mud and the other impurities at the surface of the filtering mass located inside the filter. Then it will be possible to get rid of them when washing the filter.	It is advisable to add a decanting tank. The latter can be made with locally available materials (steel, plastic, concrete, or others).
To disinfect water corresponding to the above configuration, we suggest the equipment as per plan	To disinfect water corresponding to the above configuration, we suggest a filtration unit capable of bringing turbidity down under 1 UTF. Device as per plan	Device as per plan	Device as per plan
A	**B**	**C**	**D**

* UTF measure = measuring unit of Turbidity in liquids.
Turbidity can be caused by various types of mineral or organic materials scattered in the water. An analysis will be required in each case.