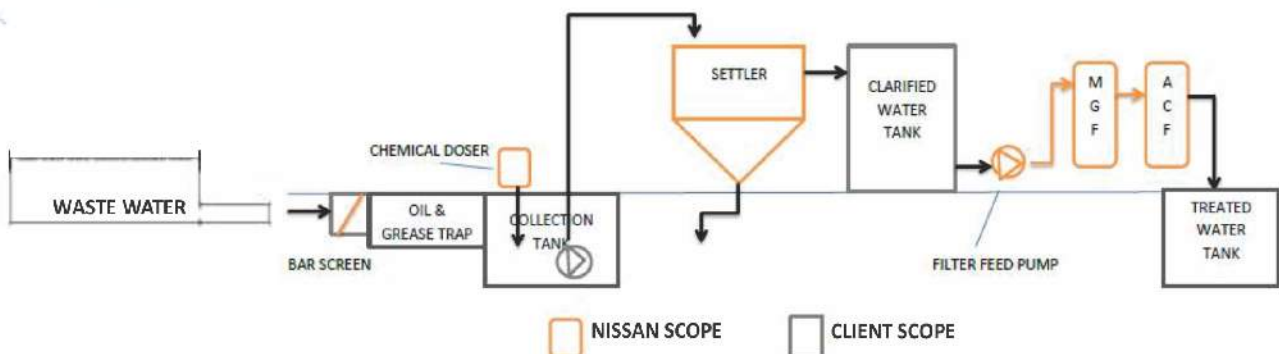


NWRP 2200



Water Recycling Plant For Automatic Car Wash Systems



Water Recycling System – Do you need one?

Water is not only essential for life but equally important for the industries & service centers as it is being one of the most critical elements. A water recycling system not only helps to save water but is one of a step for the business to become sustainable in the world of competition. We at Nissan Clean India Pvt. Ltd., think of giving our customers along with our Vehicle Wash System, a water recycling plant (NWRP) as a package to help our customers save water. With this plant we can serve you to

- Reduce your cost of operation by reusing water.
- Provide Clients with an Eco-Friendly solution.
- Overcoming water scarcity situations.
- Adhering to environmental issues.
- Easy to operate - A one stop solution.

Objective of NWRP

After careful understanding of the client's requirement the system has been efficiently design to cater specified needs of the customer.

NWRP has been developed into various modules which can be selected by the client as per their requirement providing flexibility to the client.

Description

The waste water generated during vehicle washing is processed through the various levels which either can be pumped from a collection tank/sump or through gravity can be fed into the NWRP

The various components of the system are as follows

Bar screen

The inflow water may contain trash like plastic piece, thermocol, cardboard, etc. which needs to be trapped before entering the recycling unit which otherwise can damage the equipment.

Oil and Grease Trap

The car washing system would involve oil and grease to flow into the system which needs to be taken care of. A specially made RCC chamber retains waste water and allows oil to float at the top layer. This layer can be skimmed off time to time making water free from oil & grease.

Collection Tank

The water from the Oil and Grease Trap then enters the collection tank where chemical is dozed in measured quantity to react with the other impurities and make it settle at the bottom. The other impurities may start coagulating and start floating which can be removed further.

Chemical Doser

This is a small but efficient metering pump to dose measured quantity of coagulant chemical. Coagulant increases the efficiency of settler to separate water and sludge.

Settler

A settler is a prefabricated tank used to separate sludge. The water from collection tank is transferred into settler through a pump. Here the suspended dust and other fine particles would get settled at the bottom of the tank hopper. The clarified water can be transferred to a tank.

Multi-Grade Filter (MGF)

The clarified water is pumped to pass through MGF which would further remove suspended solids and turbidity from the water.

Activated Carbon Filter (ACF)

The filtered water then enters ACF where the remaining of odour and colour is effectively absorbed by Activated carbon making water look crystal clear.



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