


VERSION II-1


1) Inlet pipe size is 1 inch and is fixed with a clip to avoid any damage of the inlet pipe by shaking.
2) Flow rate can be controlled using a control valve ( 1 inch size) by watching the pouring of an inflow water. (Suitable valve setting height is $1,100 \mathrm{~mm}$ from the base.)
3) A gap of 100 mm between the inlet pipe ( 1 inch size) and the inner pipe (4 inches size) is necessary to confirm the flow rate and to sampling the raw water. 4) The height difference of 100 mm between the top edge of the inner pipe (4 inches) and the bottom height of the outlet (over-flow) pipe is requested to keep the level of seepage water from gravels. In order to guard the outlet pipe against the excess floating scum, the larger size of gravels are heaped up the outlet pipe
4) Insert a mosquito mesh (plastic) between the bottom a large gravel layer ( 100-150 mm size) and a gravel layer ( $30-50 \mathrm{~mm}$ size) to avoid dropping small stones from the gravel layer and to easy drain the accumulated muddy matter. 6) One drain pipe and valve are set near the bottom of the inner pipe to easy drain.
5) Open (cut) windows are covered with chicken mesh to avoid fallen leaves. And one cover near the inlet pipe can be lifted for a caretaker maintenance. 7) Each tank connecter must be tightly connect from both sides (inside and outside) by two persons. Then the empty tank is filled with water. After the confirmation of no leakage from the connect point, this tank can be filled with the large gravel, mesh and small gravel.




BALANGE TANIK 300~2,700L


1) Floating valve is set to the inlet from a balance tank.
2) Correct pipe setting order is the key to normal operation. The order of setting height is siphon, inlet, over-flow and outlet. 3) At the downward ends of a siphon break system and an air ventilation are sealed with a mosquito mesh to avoid dust, rain drop and inversion of any animals.
3) Outlet pipe for the filtrate must be tighten using a brace or a clip to avoid any damage of the inlet pipe by shaking. If any other optional storage tank is not necessary in future, this outlet pipe is not necessary to set.
4) Each tank connecter must be tightly connect from both sides (inside and outside) by two persons.
5) Then the empty tank is filled with water. After the confirmation of no leakage from the connect point, this tank can be use for normal storage.

Pipe ends in the sink (Drainage box) are covered with mesh in order to prevent an inversion of frog, leaves, etc.
The end of the last drainage pipe should be extended to the existing creak.
The drainage pipe of the sink for public tap should also be extended to the existing creak.





Ecological Purification Systen design
 VERSION IT-I


EECCHI (HIDE), JICA 16/JUNE/2016


## EPS Basement design

EGUCHI (HIDE), JICA 16/UUVE/2016



