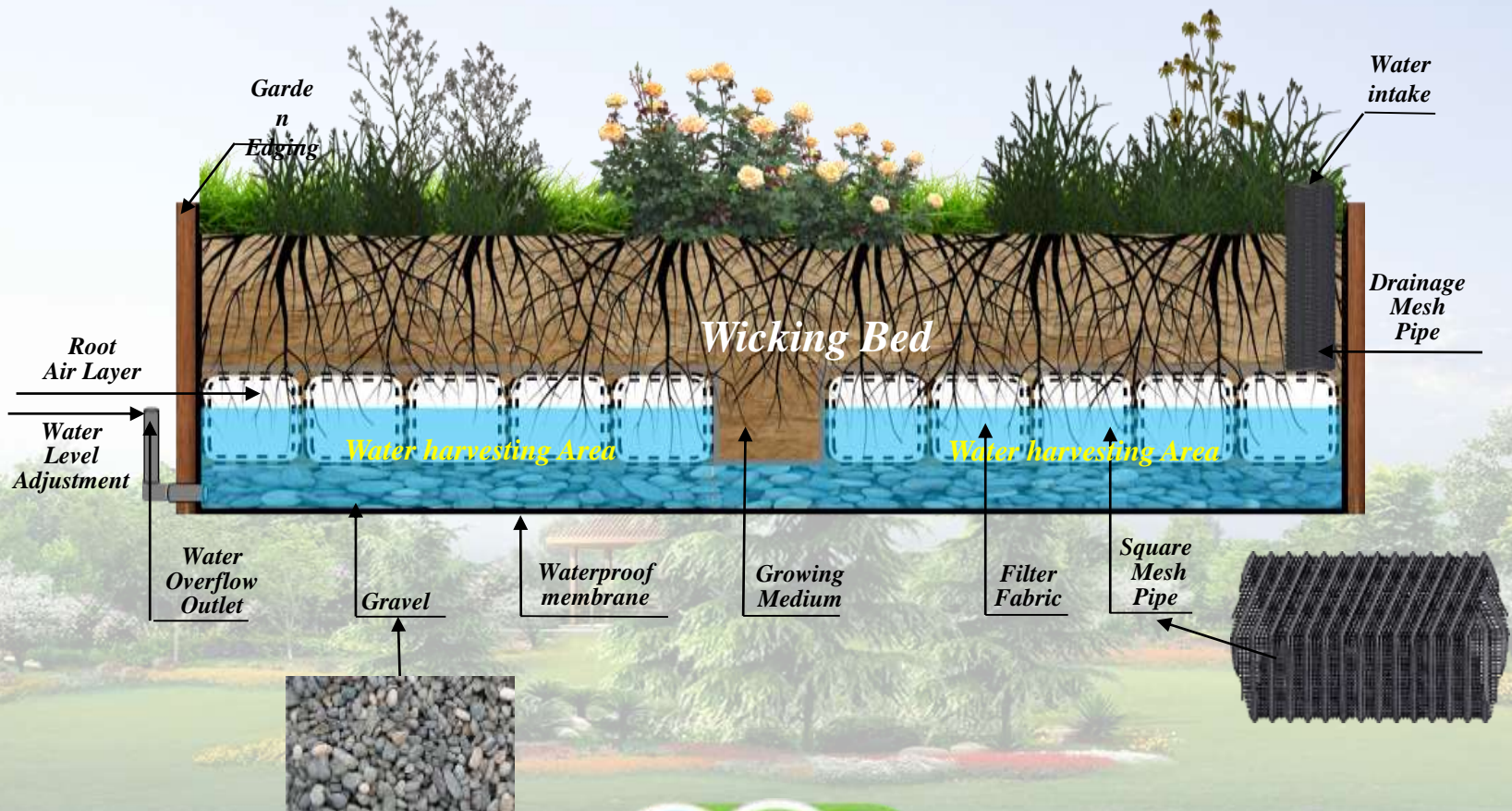


SMP-Square Mesh Pipe

Water Harvesting Self-Watering Wicking Bed Module Experiment Planning

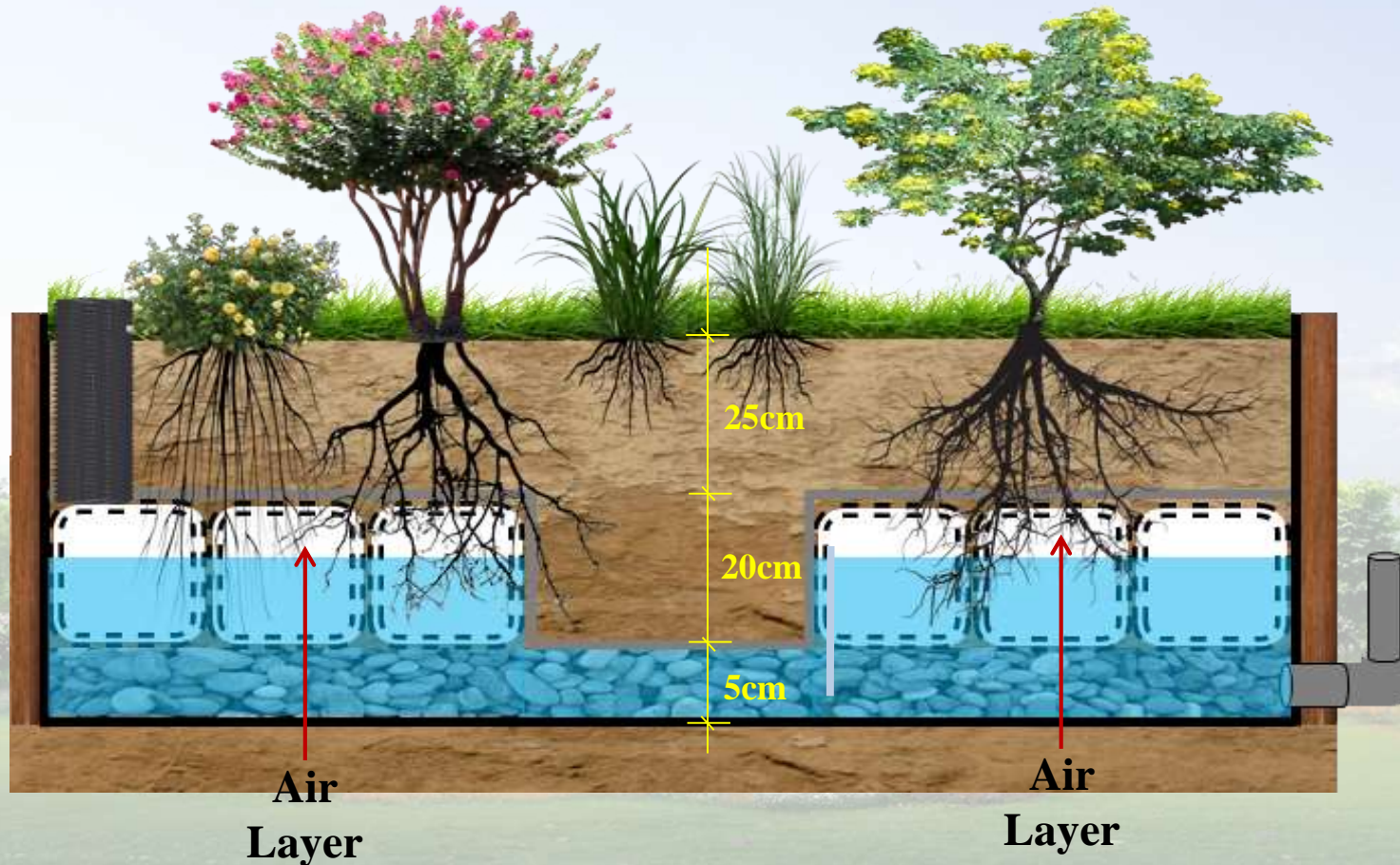


ECO-MESH



SMP-Square Mesh Pipe

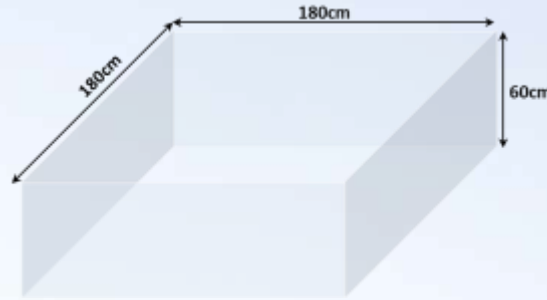
Water Harvesting Self-Watering Wicking Bed Module Experiment Planning



Plant roots grow through the air layer into the aquifer. The roots can breathe in the air layer and absorb water, providing a better plant growing environment.

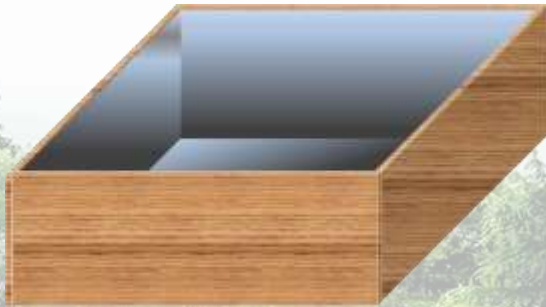


Water Harvesting Self-Watering Wicking Bed Module Experiment Planning

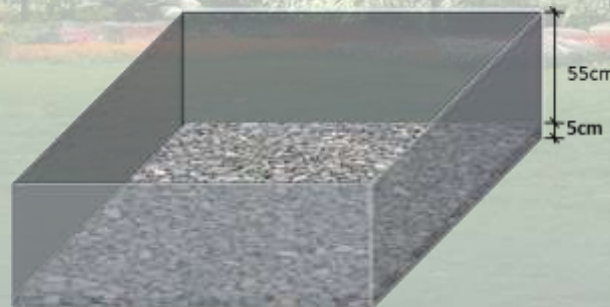


1. Garden wooden edges assemble

Wooden board 180cm * 60cm * 4 pcs assembled into a 180cm (W) * 180cm (L) * 50cm (H) space



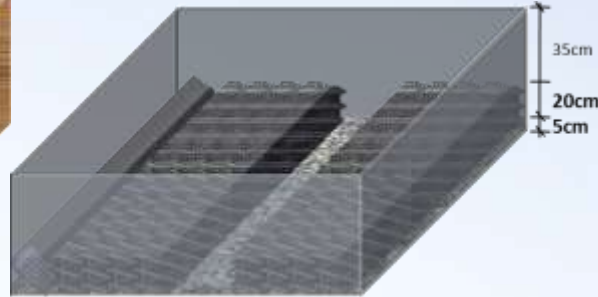
2. Cover water membrane inside the garden edges Polyethylene sheet 300cm(W)*300cm(L)



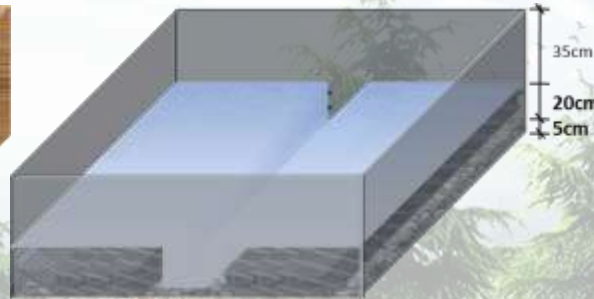
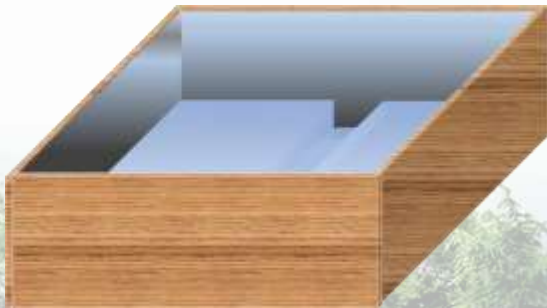
3. Lay 5cm Gravel on bottom and leveling



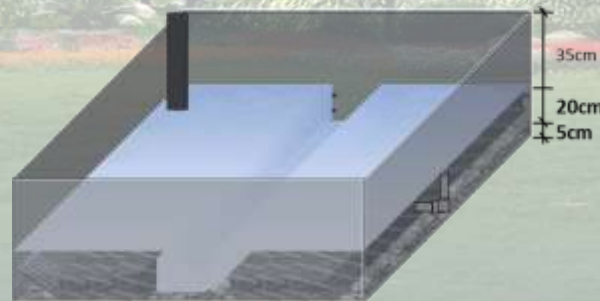
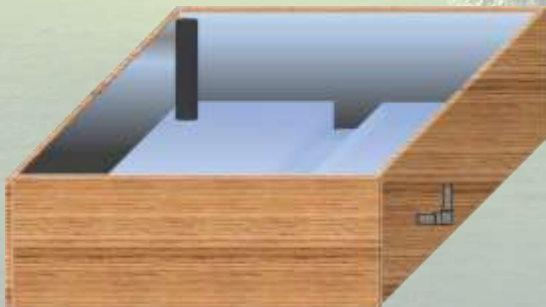
Water Harvesting Self-Watering Wicking Bed Module Experiment Planning



4. Lay one 4" AMP-Arched Mesh Pipe and six 20cm SMP-Square Mesh Pipes (Shown as above)



5. Lay textile fabric over mesh pipes



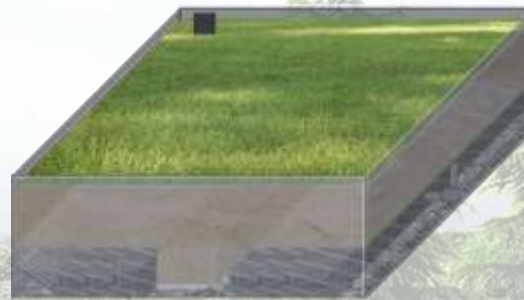
6. Install a mesh drainage pipe vertically as water inlet and a water overflow pipe



Water Harvesting Self-Watering Wicking Bed Module Experiment Planning



7. Fill with growing medium



8. Planting and vegetation



SMP-Square Mesh Pipe

Water Harvesting Self-Watering Wicking Bed

Module Experiment Planning

Material List

Item	Size	Quantity
Wooden Board	180cm(L) x 60cm(W)	4 pcs
Waterproof Liner	300cm x 300cm	1 pc
Arched Mesh Pipe	$\phi 4''$ x 180cm	1 pc
Square Mesh Pipe	20cm x 20cm x 180cm	6 pcs
Mesh Drainage Pipe	$\phi 4''$ x 50cm	1 pc
Nonwoven Fabric	200cm x 300cm	1 pc
Overflow Fitting	$\phi 3/4''$	1 set
3/4" Wash Gravel		0.16m ³
Growing Medium		1.0m ³