





Sub-irrigation and drainage of Arched Mesh Pipe length-Experimental schematic



20m m**Experimental base pre-construction** 

## **Experimental base pre-construction**







Marking





**Trenching : 40cm depth** 





Laying Arched Mesh Pipe



**Connect Water Supply System** 



Irrigation and drainage systems connection



**Overflow Well** 





Fill with Growing Medium



Leveling



After irrigation 1000kg humidity



After irrigation 2000kg humidity





After24 hours and then measuring humidity





The status after 40 days





The Points of humidity after irrigation

## The results

Arched Mesh Pipe length 60m

Arched Mesh Pipe spacing 1.5 ~ 3.0m

12 "water catch basins covering irrigated area 300M<sup>2</sup>

Water-saving 50~60%

Save more than 70% of human irrigation