SOME GUIDELINES

Rain water harvesting system which has shown in drawing, capacity of storage is 20000 liters. Time required for complete this system is only 8 days. Day by day programmes are given below:

1st day
1) Cleaning of place for construct storage tank.
2) Layout marking & earth excavation.
3) Compaction of Foundation base with sand.
4) P.C.C (1:4:8) @ 150 mm thick.
5) Brick work (1:4) as per drawing.

2nd day
1) Sand filling inner portion of circle and compaction with spreading water. Place required for P.C.C @ 62 mm from top of wall.
2) P.C.C (1:4:8) @ 62 mm thick.
3) Fixing of gutter (donga) or pipe fixing, so that all rain water will be collected from roof.
4) Cutting & making of ring from 6 & 5 mm reinforcement.
5) Preparation of soak pit, soak pit is a connector of dirty rain water, overuse water & overflow of tank.

3rd day
1) Brick bats filling at soak pit.
2) Placement of reinforcement at proper place as per schedule.
3) R.C.C (1:2:4) @ 62 mm thick at base of tank.

4th day
1) Providing Chicken wire mesh (tarjali @ 20 gauge) inside & outside of reinforcement structure.
2) Placing of pipes for using water, overflow & scouring of water.
3) Outside wall will be plastered at first (20 mm thick). Before plastering, a solution of cement & water should be given to reinforcement for prevent rust. Cement & sand will be taken (1:3) for plastering.
4) First 10 mm thick plastering will be done at outside, gap between two tarjali should be filled properly.
5) Allow 2 hours for 1st layer (10 mm), after that second layer (10 mm) will be provided.

5th day
1) Inside plastering (1:3) will be done maintaining same procedure.(1st step 10 mm thick & after 2 hours again 10 mm thick plastering)
2) Plinth protection of water tank should be constructed.
3) A solution of cement & water called slurry may be given to both outer & inner wall.

6th day
1) Reinforcement arrangement for cover of tank should be done & place to be leaved for manhole cover & filter @ 600 mm & 250 mm dia.
2) Tarjali should be provided both inner & outer side of cover.
3) Plastering will be done by cement mortar (1:3) & thickness will be restricted to 25 mm.
4) Slurry will be given by maintaining same procedure.

7th day
1) Plastering to plinth protection with (1:4) cement mortar.
2) Pipe connection to filter should be done.
3) Construct a nala for carry overuse water to soak pit.
4) Placement of valve at proper place.
5) M- Seal may be used for any leakages.

8th day
For any type of delay or natural hazardous this day is reserved. Curing should be done properly.

Disinfection of storage water:-- (for 20000 liters)

1) Take 3 liters of water in a bucket.
2) Mix 60 grams calcium-chloro-hypo-chlorite [ca (ocl) cl] generally called bleaching powder with 3 liters water & stirred well for 5 minutes.
3) Allow this solution for sedimentation for 30 minutes.
4) Fresh water from upper portion should be taken into another bucket & solid part of lower portion should be leaved.
5) Mix this solution into 20000 liters of water.(at storage tank)
6) Allow 30 minutes for disinfecting of storage water & after 30 minutes this water use for drinking purpose.

BEST OF LUCK