

# **Ranchi Municipal Corporation; Ranchi**

## **Rain Water Harvesting Regulation - 2016.**

In exercise of the powers conferred by Section 592 read with clause (3) of section 434 of the Jharkhand Municipal Act, 2011 (Act No.- 07 of 2012), the Ranchi Municipal Corporation do hereby make the following Regulation namely :-

1- **Short Title and commencement – This Regulation may be called the Ranchi Municipal Corporation Rain Water Harvesting Regulation – 2016.**

2- **It shall come into force from the date of notification in the official gazette.**

3. **Objectives:-**

The objective of this regulation is to ensure that Ground Water is Protected, Conserved and regulated so as to reduce degradation and depletion of Ground Water.

4. **Definitions:-**

In this Regulation, unless the context otherwise requires:-

- a) **Act** Means Jharkhand Municipal Act – 2011.
- b) **Aquifer** is a Geological formation that stores and transmits water.
- c) **Artificial Recharge:** Any man made scheme or facility that adds water to an aquifer.
- d) **Bore Well:** Small diameter wells which are generally deeper than open wells.
- e) **Dug Well:** Traditionally made long diameter wells, pits excavated in the ground until the water is reached, supported at the sides by RCC/Brick/Stone walls.
- f) **Ground Water:** The Water retained in the inter-granular pores of soil or fissures of rock below the water table.
- g) **Run Off:** Run off is the term applied to the water that flows away from a surface after falling on the surface in the form of Rain.
- h) **Recharge:** The process of surface water (from rain or reservoirs) joining the ground water aquifer.

5. Anything not defined in this regulation but is defined in the Act shall have the same meaning as defined in the Act.

6. Domestic Rain Water Harvesting or roof top Rain Water Harvesting is the technique through which Rain Water is captured from roof catchments and stored in tanks reservoir/general water aquifers. The system involves collecting water that falls on roof of a house during rains and conveying by any means to a nearby covered storage unit or cistern and then letting it in the aquifers.

7. Unless otherwise stipulated specifically in the Jharkhand Municipal Act 2011 or Building Bye Laws, workable roof top Rain Water Harvesting arrangements shall be provided as an integral part of all building construction on plot size of 300 square meter or above in the Municipal Area. The size of Recharge Pit should be ~~106~~ 106 Cubic Meter per 100 square meter of roof area.

The specifications of the Rain Water Harvesting models are described in schedule (I), schedule (II) and schedule (III) of this regulation.

8. **The building constructions could be broadly classified as per the following:-**

Category - (A) Buildings on plot size less than 300 square meter.

Category - (B) Buildings up to G+2 on plot size more than 300 square meter.

Category - (C) Buildings G+3 and above on plot size more than 300 square meter.

Provided further that, the Rain Water Harvesting arrangement is not mandatory for buildings with a plot size less than 300 square meter However the owners of such buildings are advised to construct Rain Water Harvesting Structure for conservation and protection of ground water.

The model of Rain Water Harvesting advised for Category "A" building is described in schedule I; and the model of Rain Water Harvesting required for Category "B" buildings is described in schedule II; and the model of Rain Water Harvesting required for Category "C" buildings is described in schedule III.

**(C) The components of workable roof top Rain Water Harvesting arrangement as stipulated shall include: -**

- (i) Roof Catchment area
- (ii) Roof Gutters
- (iii) Down pipes and first flush pipe arrangement
- (iv) Silt Chamber.
- (v) Recharge Pit with provision for seepage or letting the water to the aquifer.
- (vi) Bore for recharging water to the aquifer. Defunct Bore well/Well may be used as bore if available.

**9. Obligation to construct Rain Water Harvesting –**

Every owner or occupier of a building having a plot area of 300 square meter and above or every owner who proposes to construct a building on plot area 300 square meter or above shall provide for Rain Water Harvesting structure in such manner, with such conditions as provided in the schedule II and III of this regulation depending upon the category of the building failing which the Ranchi Municipal Corporation shall charge or cause to be levied holding tax 1.5 times over and above the normal holding tax.

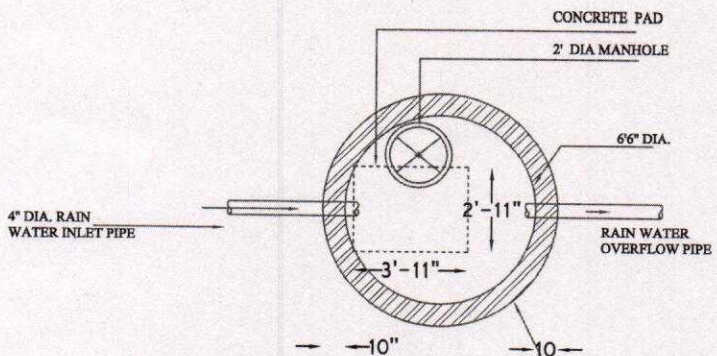
**10.** Community Rain Water Harvesting shall be strived in case where the owner or occupier reside or occupy building units with land constraint. It shall be duty of each and every owner/occupier to participate in the community Rain Water Harvesting where individual Rain Water Harvesting is not possible due to land constraint.

- 11. Power of Municipality to use any discarded or dead tube well as recharge pit or percolation pit.** The Municipality may provide or cause to be used any discarded or dead tube well for use as percolation pit for any locality or for use as community Rain Water Harvesting system.
- 12.** Notwithstanding anything provided in this regulation the provision provided/stipulated in the Environment Protection Act 1986 and Water (Prevention and Control of Pollution) Act shall be followed and adhered to in case of ambiguity.
- 13.** Compliance of Rain Water Harvesting structures in Govt. Buildings shall be ensured by the head of the institution situated in the building.
- 14.** It shall be ensured by every person responsible for construction of Rain Water Harvesting structure that in no case polluted or waste water is let into the recharge pit as it will lead to pollution of the ground water.
- 15. Penalty:** Any person found violating clause no. 14 shall be punishable as per section 340 of Jharkhand Municipal Act 2011.

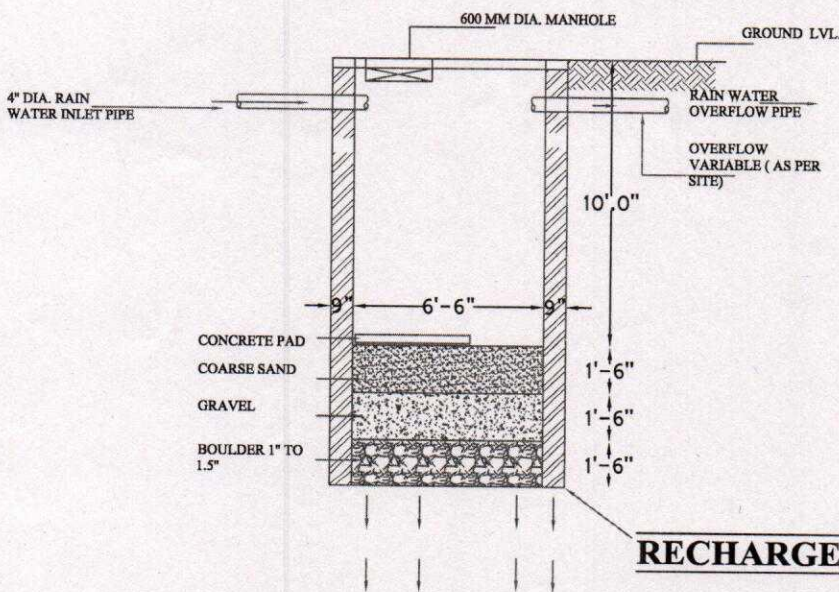


# RANCHI MUNICIPAL CORPORATION, RANCHI

## LINE PLAN FOR CONSTRUCTION OF RAIN WATER HARVESTING UNIT • FOR PLOT SIZE BELOW 3000 SQ. Ft.



**RECHARGE PIT**



**RECHARGE PIT**

NOTE :

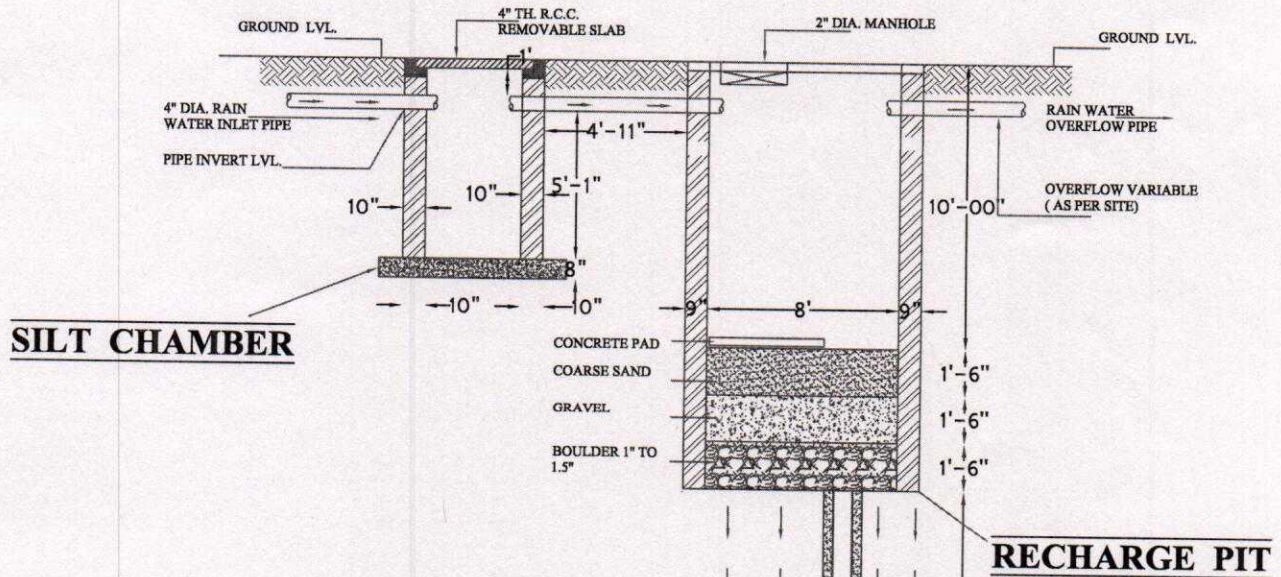
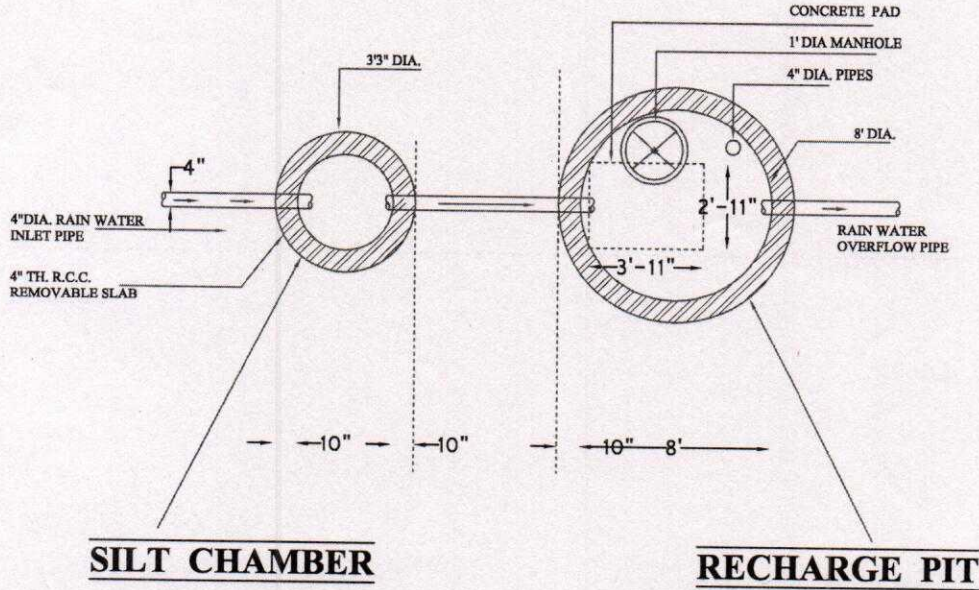
*31/3/14 L/S*

**RECHARGE PIT  
DETAIL**

**RANCHI MUNICIPAL CORPORATION, RANCHI**

**LINE PLAN FOR CONSTRUCTION OF RAIN WATER HARVESTING UNIT**

- FOR PLOT SIZE 3000 SQ. Ft. & ABOVE
- FOR BUILDING UPTO G+ 2 LVL.



4" DIA.  
BOREWELL 100 Ft. DEEP  
BORE<sup>1</sup>

100'-0"

**RECHARGE PIT  
DETAIL**

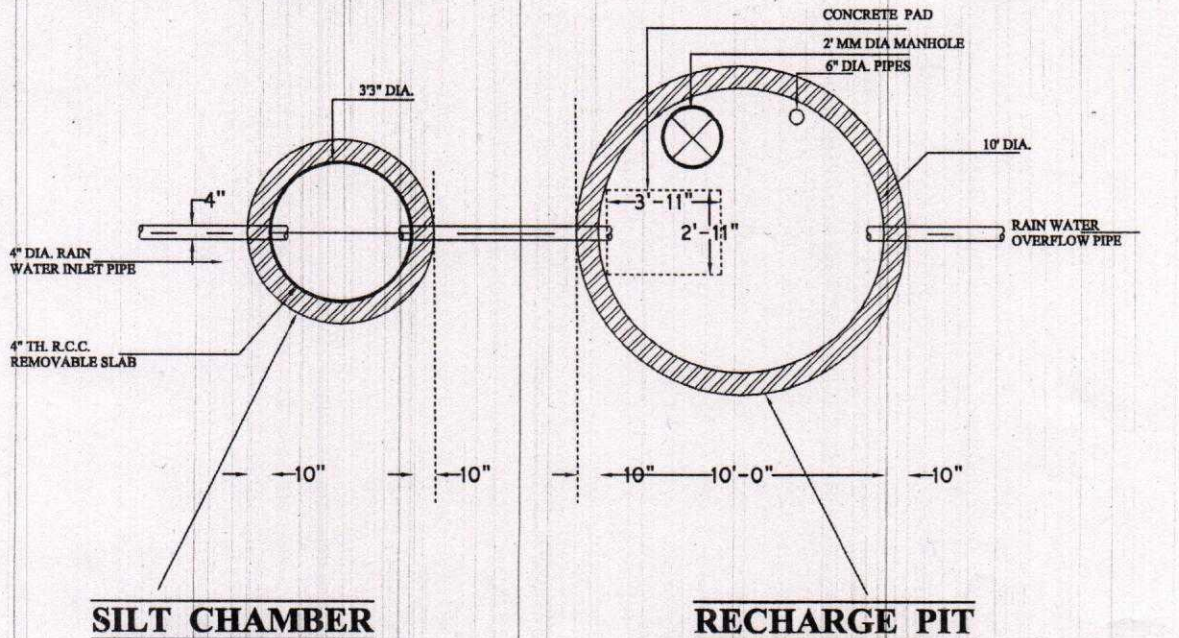
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**RANCHI MUNICIPAL CORPORATION, RANCHI**

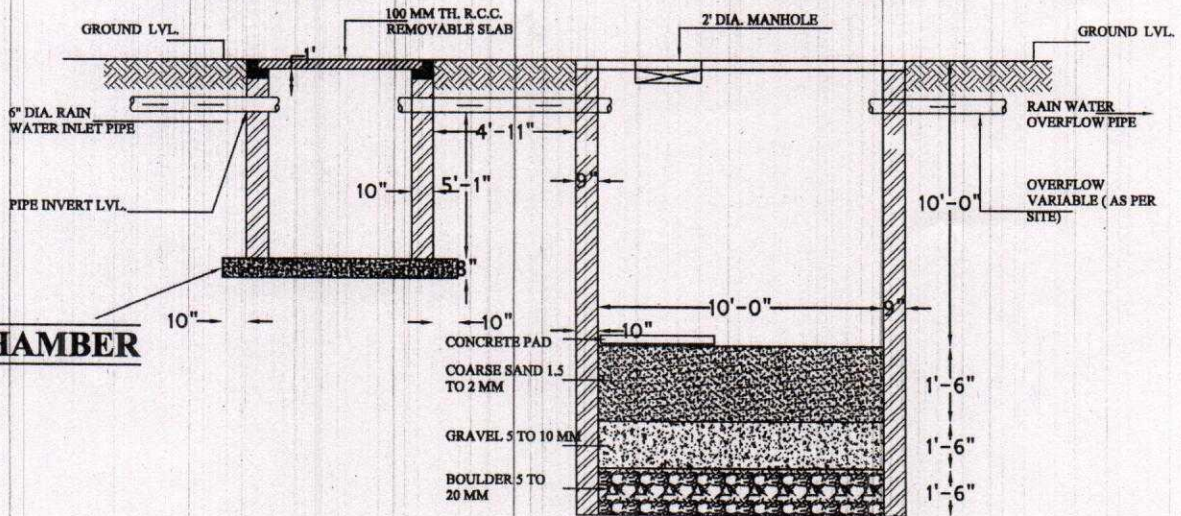
**LINE PLAN FOR CONSTRUCTION OF RAIN WATER HARVESTING UNIT**

- FOR PLOT SIZE 3000 SQ. Ft. & ABOVE
- FOR BUILDING G+3 LVL. & ABOVE



**SILT CHAMBER**

**RECHARGE PIT**



**SILT CHAMBER**

**RECHARGE PIT**

4" DIA.  
BOREWELL 300ft. DEEP  
BORE<sup>1</sup>

300'-0"

**RECHARGE PIT  
DETAIL**

NOTE :

*31/2011/10*