

**BANGALORE WATER SUPPLY AND
SEWERAGE BOARD**
III FLOOR, CAUVERY BHAVAN, K.G. ROAD,
BENGALURU - 560 099

NOTIFICATION

NO.

BWSSB/CH/CE(QA)/TAQA/2553/2
010-11 DATED 28TH OCTOBER,
2010

In exercise of the powers conferred by Section 72-A and 88 of Bangalore Water Supply and Sewerage Act, 1964 (Karnataka Act 36 of 1964) and all other powers enabling it in this behalf, and with the approval of the Government of Karnataka accorded in Government order No.UDD 19 MNI 2010, dated 20th May, 2010, the Bangalore Water Supply and Sewerage Board hereby makes the following Regulations, the draft of the said Regulations having been published as required by sub-section (2) at Section 88 of the said Act, in Notification No.BWSSB/CH/CE(QA)/TAQA/479/2010-11 dated 31st May, 2010 duly published in part III, section 641 of the Karnataka Gazette, dated June 3rd, 2010.

REGULATIONS

1. Title and commencement :

1 These Regulations may be called the Bangalore Water Supply and Sewerage (Rain Water Harvesting) Regulations, 2010

2. Definitions:

In these Regulations, unless the context otherwise requires :-

a) “Act” means the Bangalore Water Supply and Sewerage Act, 1964 (Karnataka Act 36 of 1964)

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- b) “Bore Well” means Well drilled in the hard rock formation for extraction of ground water.
- c) “Disinfection” means removing the bacteriological contamination.
- d) “Expert” means specialist in subject matter of rain water harvesting

- e) "Filter" means line or graded material used for filtering the unwanted.
- f) "Ground Water" means The Water available below the ground in the zone of saturation.
- g) "Ground Water recharge" means The Water put below the ground to charge ground Water body by artificial structure or pit.
- h) "Non Potable Water" means The Water used for garden, washing, Flushing or any other secondary purposes.
- i) "Open well" means well constructed for extraction of ground Water. "Rain Water Harvesting" means the technique of collection and storage of rain Water for future use or for recharge of ground Water
- k) "Regulations" means Regulations made by The Board.

3. Implementation of Rain Water Harvesting Scheme :

The manner of providing rain Water harvesting structure as required under section 72A of the Act, shall be distinct for roof based rain Water harvesting as specified in regulation 4 and 5 respectively and guidelines issued there under.

4. Roof based Rain Water Harvesting :

1. Roof based rainwater shall be harvested for use through a filter into a storage tank or for recharge of an open well. In case of a bore well in the building through artificial recharge structure or pits, irrespective the nature of sub-soil conditions.
2. Rain Water from The roof of the buildings such as tiled/slope roof and flat/RCC roof may be collected using appropriate size of gutters or pipe lines respectively and stored either in a collection tank or storage structure of appropriate size placed over the ground or underground after proper filter and disinfection. Appropriate filter shall be used for filtering rain Water. The Water shall be used for non portable purpose. The water to be used for portable purpose by owner/occupier shall be treated to IS 10500 standards before using. The surplus water available after filling the storage tank/sump may be diverted to the open well or bore well through recharge structure or pits.

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5. Land based Rain Water Harvesting :

Land based rain Water harvesting, shall be done by using appropriate ground water recharge structures or pits depending on the nature of the sub-soil conditions.

6. Capacity designing of rain water storage structure :

1. While designing the roof based rain water harvesting the capacity of a storage structure or for for artificial recharge structures to ground water, a provision at the rate of 20 ltrs or more capacity per Sq. mtr. of the roof area shall be adopted.
2. While designing The Land based rain water harvesting the capacity of a storage structure or for artificial recharge structure to ground water a provision at The rate of 10 ltrs or more capacity per sq.mtrs. of the land.

7. Recharging of ground water through open well or Bore Well :

1. Through open well : The rain water collected from The roof of tiled or sloped roof and □at or RCC roofs using gutters or pipe lines rain water harvested shall be diverted to the open well through a filter before recharging into a open well. Appropriate disinfection methods shall be practiced before using Tor artificial recharge to ground water. Contaminated water should not be used as source of water for recharging The open well.
2. Through Bore Well : The rain water collected from the roof of tiled or sloped roof and □at or RCC roofs using gutters or pipe lines or Land based rain water harvested shall be filtered through proper filter, stored and stabilized in a sedimentation Tank before recharging into bore well. Expert advice may be obtained before recharging the bore well. Adequate bypass or safety arrangements shall be provided in the system.

Sd/-
Chairman
**Bangalore Water Supply and
Sewerage Board**

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