



**SRI VENKATESWARA COLLEGE  
(University of Delhi)**

***Managed by Tirumala Tirupati Devasthanams (TTD)***  
***NAAC Accredited "A" Grade (2016), DBT Star College Status (2016)***  
***NIRF Rank # 14 (2020), NIRF #11(2021)***

***Benito Juarez Road***  
***Dhaura Kuan, New Delhi -110021***  
***Phone: 91 11-24118590***  
***Fax: 911124118535***  
***Webpage: [www.svc.ac.in](http://www.svc.ac.in)***  
***Email: [principal@svc.ac.in](mailto:principal@svc.ac.in)***

**CRITERIA 7  
SUPPORTING DOCUMENT**

**7.1.4 Water conservation facilities available in the Institution**

## Rain Water Harvesting

DELHI JAL BOARD: GOVT. OF NCT OF DELHI  
OFFICE OF THE EXECUTIVE ENGINEER (RWH/GWC)-I  
ROOM NO. 208, VARUNALAYA PHASE-I  
KAROL BAGH, NEW DELHI - 110005  
# 23558264

No./DJB/EE (RWH/GWC)-I/2021/ 1209

DATED: 04/8/2021

To,

Principal,  
Prof. C. Sheela Reddy,  
Sri Venkateswara College,  
Benito Juarez Road,  
Dhaura Kuan, New Delhi-110021


**Subject: Design of rain water harvesting structure at Sri Venkateswara College, Benito Juarez Road, Dhaura Kuan, New Delhi-110021.**

Sir,

Please refer to your application on the above subject. A drawing of rain water harvesting structure for the premises including conditions and layout drawing showing location of RWH structure are enclosed. It is to mention that design of rain water harvesting structure is based on the inputs provided by yourself/your representative.

The enclosed design is in form of technical assistance only. Proposed Eight Nos. RWH structure **without bore** of sizes mentioned in the sheet of RWH structure drawing attached herewith. Rain water conveyance system (storm water drain) should be provided and connected with RWH Structure in the above premises.

This is subject to the condition that in case of any restrictions on construction activities in the said premises by any other government authorities and court orders, then this design/approval deemed to stand cancelled. The storm water conveyance system shall be provided in place and made fully operational for efficiency of proposed RWH Structure.

  
EE (RWH/GWC)-I  
EE (RWH/GWC)  
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VARUNALAYA BHAWAN  
JHANDEWALAN, N.D.-5

**Conditions for Construction at Sri Venkateswara College, Benito Juarez  
Road, Dhaula Kuan, New Delhi-110021.**

1	Total area of the Plot	60700.50 sqm.
2.	Total Roof Top area considered for RWH Systems	8631.09 sqm.
.3	off available -Average Yearly Rain Water Run for recharge	650 mm
.4	Maximum average hourly rainfall intensity considered for designing rain water harvesting structures	25 mm
.5	Proposed Recharge Structures (drawing enclosed)	Eight nos. recharge pit without recharge bore well .

1. This office should be intimated immediately after completion of the recharge system for inspection by officials of RWH cell of DJB.
2. Structural design for chamber walls & top slab is to be got done from a qualified structural engineer. No claims shall be tenable on account of this.
3. Depth of the recharge trenches/chambers is below the Invert Levels of inlet pipes and up to the first layer of filter media. Sizes in respect of lengths and breadths given in design are the inner dimensions of recharge trenches/ chambers. Foot rests in filtration chamber are to be provided to facilitate entry of maintenance person in this chamber. In case of any doubt, the office of EE (RWH) Cell, DJB may be contacted.
4. Waste water/contaminated water shall not be allowed to enter into the storm water drains (rain water conveyance system) and recharge structures to avoid contamination of ground water. Proper care & precaution shall be taken for maintaining the rain water harvesting system on regular basis.
  - a. Check and clean catchments on weekly basis.
  - b. Check and clean rain water conveyance system on monthly basis.
  - c. Check and clean filtration chamber prior to and after monsoon every year. Take out filter media, wash it and reuse with additional quantities for the deficient portions.


These are to be checked on fortnightly basis during monsoon and are to be cleaned.


5. It is advised to provide a mesh on the mouth of the inlet (in the last chamber of the rain water conveyance system prior to recharge structures) to prevent entry of debris and floating material into the recharge trenches. Sluice valves/ Shutters may be provided to ensure that no water other than rain water is diverted to the recharge structures and to divert first rain water run-off into municipal drain. Rain water recharge structures are to be in operation during the monsoon season only so as to avoid any contamination.

EE (RWH/GWC)  
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JHANDEWALAN, N.D.-5

*(Handwritten signature)*

6. The work may be undertaken by the specialized agencies so that the objective of rain water harvesting is implemented in true spirits and due benefits are accrued.
7. It is to be noted that success and effectiveness of rain water harvesting system depend on proper execution and its proper maintenance.
8. Following measures as stipulated by Hon'ble Supreme Court must also be ensured to prevent any accident:
  - a. Erection of signboard & caution board at the time of construction and on the above installations.
  - b. Erection of barbed wire fencing or suitable barriers around the above sites.
  - c. The display Board (in Hindi) with Dos & Don'ts must be erected on each crucial installation.
9. Capacities for recharge structures are based on rain water runoff from roof areas. However citizens are encouraged to make recharge structures of additional capacities that take runoff from other non polluting catchments.
10. Minimum and maximum depths of recharge structures may not be less than 1.0m and may not be more than 4.0m respectively.
11. Recharge structures shall be cleaned before onset of monsoon season every year including removal, washing and relaying with topping of filter media layers, if provided.
12. It is advisable to clean the recharge structures after every 2 rainfalls during the rainy season or more frequently. Recharge structures shall be checked and cleaned at least 7 days interval or more frequently during rainy season.
13. Post monsoon cleaning and maintenance of recharge chambers shall be carried out. It is again to emphasize that proper & timely maintenance is the key factor for the success of Artificial Recharge structures. Citizens are required not just to make the RWH structures but also to maintain them such that they are efficiently able to function during the monsoons. Following annual maintenance activities shall also need to be done in this regard.
  - a. Cleaning of filter media by thoroughly washing it with water/topping/replacement of filter media.
  - b. Repair for structural damages & system efficiency.
  - c. Repair / design modifications / diversions to ensure that no contaminated water enters the structures and not to allow any changes in catchment that may prevent Rain Water runoff from reaching the recharge chambers.

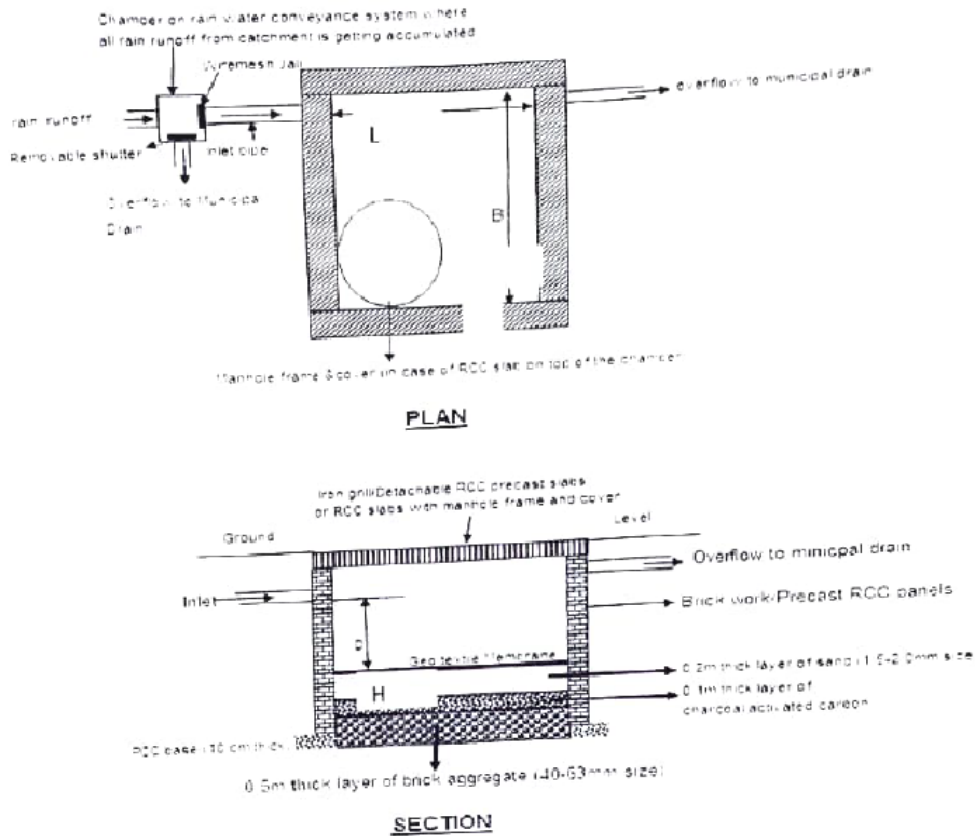
  
 EE(RWH/GWC)-1  
 EE (RWH/GWC)  
 DELHI JAL BOARD  
 VARUNALAYA BHAWANI  
 JHANDEWALAN N D-5

  
 AE(RWH)-1



**RWH Structure at Sri Venkateswara College, Benito Juarez Road, Dhaula Kuan, New Delhi-110021.**

**Fig. 1 Rectangular Recharge Chamber for RWH**



- Size of RWH Structure:-**
- (1)  $L= 12.0 \times B= 3.50 \times D=1.25 \text{ m}$  (Only one No. RWH structure)
  - (2)  $L= 14.0 \times B= 4.0 \times D=1.25 \text{ m}$  (Only one No. RWH structure)
  - (3)  $L= 3.0 \times B= 3.0 \times D=1.25 \text{ m}$  (Only one No. RWH structure)
  - (4)  $L= 4.0 \times B= 3.0 \times D=1.25 \text{ m}$  (Only two Nos. RWH structures)
  - (5)  $L= 2.0 \times B= 2.0 \times D=1.25 \text{ m}$  (Only three Nos. RWH structure)

Note: For working out the storage/retention capacities, depths are to be considered below the invert level of the lowest inlets to the recharge chambers/trenches. Alternative to suggested filter media may be multiple layers of jute mats in recharge chambers / modular filters in rain water pipes from rooftops with the objective to arrest the silt in the rain runoff generated from the catchments before its percolation into the natural soil strata. No waste water is allowed to be entered into Recharge Structures. For more details, please contact to the office of EE (RWH/GWC), Delhi Jal Board, Room No. 11, Varunalaya Phase-I, Karol Bagh, New Delhi-110005, Tel No. 011-23558264.



Prof. C. Sheela Reddy  
Principal

శ్రీ వేంకటేశ్వర కళాశాల  
Sri Venkateswara College

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Benito Juarez Road, Dhaula Kuan, New Delhi-110021  
Ph.: 011-24112196, 24118590, Telefax : 011-24118535  
principal@svc.ac.in

To

7<sup>th</sup> June 2021

**Mr. Rana Chatterjee**  
Head of Office,  
CGWB SUO  
R K Puram  
New Delhi – 110022

Subject: Request for technical expertise for Rain Water Harvesting for groundwater recharge

Dear Sir,


As you are aware, Sri Venkateswara College, University of Delhi, is known not just for its academics, sports and cultural vibrancy, but also for being environmentally conscious.

According to the report by your CGWB, groundwater level is declining by 0.5 to 2 metres annually in most parts of Delhi. Therefore, Sri Venkateswara College has been aiming to install Rainwater Harvesting (RWH) in our college for groundwater recharge.

I would highly appreciate it if you could kindly provide us with your technical expertise and guide us through various steps for installing RWH structures in our college. This will help us to fulfil our responsibility to recharge groundwater and contribute to increasing the water table in the area.

Please feel free to contact me ([principal@svc.ac.in](mailto:principal@svc.ac.in)) or Dr. Vartika Mathur ([vmathur@svc.ac.in](mailto:vmathur@svc.ac.in); +91 9810386575), who is taking care of this initiative, for any queries or communication.

Looking forward to your favourable reply.

  
Prof. C. Sheela Reddy  
Principal



Dr. P. Hemalatha Reddy  
Principal

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principal@svc.ac.in

Ref.No.SVC/Police/2019/41-28

28.09.2019

The Dy. Commissioner of Police  
South West District  
Basant Lok, Vasant Vihar  
New Delhi - 110 070

**Sub:** Sri Venkateswara College, New Delhi - Water Harvesting Structures in the campus - permission - reg.

Dear Sir,

I am pleased to inform you that the college has accorded necessary approvals from the management for a provision of water harvesting structures (3 nos.) in the college.

The work of "Construction of Rain Water Harvesting Structures in S.V. College: has been awarded to M/s Chaudhary Builders, Khasra No.299, Village Gokul Pur, Wazirabad Road, Shahdara, Delhi - 110 094 and the work will be supervised by the Tirumala Tirupati Devasthanams' Engineering Department stationed in the college campus.

I have been requested by the contractor and T.T.D. Engineering Department to obtain necessary approvals from your department for construction of Rain Water Harvesting Structures and other related works.

In the light of the above, I request you to kindly accord your approval for the Construction of Rain Water Harvesting Structures in S.V. College as the construction of Rain Water Harvesting Structures is a mandatory requirement as per NGT Guidelines for educational institutions.

Thanking you,

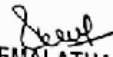
Yours sincerely

  
(P. HEMALATHA REDDY)

41-29 Copy to: The S.H.O. South Campus, R.K. Puram, New Delhi, for information and necessary action  
41-30 The Chowki-in-Charge, Nanakpura, New Delhi, for information and necessary action.  
TTD Engineering Department/Police file/Water Harvesting file/master file

d/c

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(P. HEMALATHA REDDY)