



**SHRI SHIVAJI EDUCATION SOCIETY, AMRAVATI'S**  
**SHRI SHIVAJI COLLEGE OF ARTS, COMMERCE AND SCIENCE, AKOLA (MS)**  
**Affiliated with Sant Gadge Baba Amravati University, Amravati (MS)**  
**UGC Status- College with Potential for Excellence (Phase II Completed)**  
**DST- FIST (Level "00") Support;**  
**Lead College Status by S. G. B. Amravati University, Amravati (MS)**  
**Website: [www.shivajiakola.ac.in](http://www.shivajiakola.ac.in)**

7.1.4

*Water conservation facilities available in the Institution*

Shri Shivaji Education Society, Amravati's

## SHRI SHIVAJI COLLEGE OF ARTS, COMMERCE AND SCIENCE, AKOLA



NAAC Re-Accredited with A grade with CGPA 3.24  
UGC Status of 'College with Potential for Excellence', DST-FIST level-0 Support  
**Lead College status by S.G.B.A.U. Amravati**



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**Late Dr. Panjabrao Deshmukh**  
Founder President

**Hon. Harshvardhan Deshmukh**  
President

**Dr. Ambadas L. Kulat**  
Principal

No. SSC/AKL/

Date 15/12/2021

### Declaration

This is to declare that the information, reports, true copies and numerical data etc. furnished in this file as supporting documents is verified by IQAC and found correct.

Hence this certificate.

Dr. A. S. Raut  
**Dr. A. S. Raut**  
IQAC Co-ordinator  
Shri Shivaji College of Arts,  
Commerce & Science, AKOLA

Dr. A. L. Kulat  
**PRINCIPAL**  
Shri Shivaji College, of Arts  
Commerce & Science, AKOLA  
A GRADE C.GPA. 3.24., BY NAAC



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## 7.1.4

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

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**SHRI SHIVAJI COLLEGE OF ART S, COMMERCE AND SCIENCE,  
AKOLA (MS)**

**Report of  
Water conservation facilities**

**Rain Water Harvesting**  
<https://youtu.be/Q9nPw8KEYfI>  
**Rain Water Harvesting video**




Shri Shivaji Education Society, Amravati's

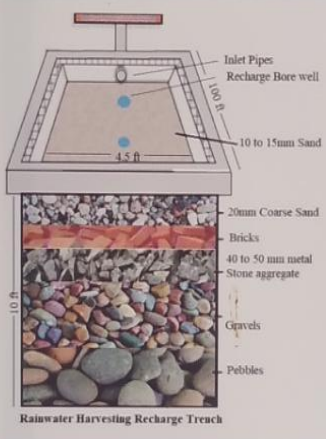



**SHRI SHIVAJI COLLEGE OF ARTS, COMMERCE & SCIENCE, AKOLA**  
NAAC Re-accredited with 'A' grade with CGPA -3.24 IUGC Status of college with Potential for Excellence I DST FIST Sponsored, Lead College Status by Parent University

## RAINWATER HARVESTING IN THE CAMPUS

### Project by Department of Geology & Geo-informatics with NSS







**Total catchment area : 11461 sq. meter**

**Total volume of rainwater collected :**  
**246275.225 cubic metres (m<sup>3</sup>) or**  
**24,62,75,225 litres.**

About 70 percent of the total rainwater harvesting potential to the harvesting recharge structure.

So that, **Total volume of rainwater harvested about :172392.65 cubic metres (m<sup>3</sup>) or 172392657.5 liters .**

The College has developed its own rainwater harvesting model by constructing rainwater recharge trench having size 100ft x 4.5ft x 10 ft located at North- West part of the College campus. The recharge trench site was selected by using GIS, Geophysical and Geological survey of the college campus. The main water bearing formation i.e. Basalt (Deccan Traps) fractured, jointed under phreatic conditions whereas, Alluvium- Sand, silt and clay column, under semiconfined to confined conditions were reported.

All the runoff of surface water and rooftop rainwater outlets collected with PVC Pipes and drains into the groundwater recharge pits. To increase groundwater recharge, two recharge borewells were taken along recharge trench for artificial opening to basement sand, silt and clay column to avoid confined condition and drilled up to a weathered and highly jointed basalt sections which having a good groundwater holding and yielding capacity. The rainwater harvesting structures enhanced groundwater table in and around the college campus. The college borewells continuously yielding groundwater also in summer seasons.

Criterion VII–Institutional Values and Best Practices/7.1.4



Water Conservation Competition-First Prize



Inauguration of “Jal-Sandharan” (Water Conservation) model competition



Media Coverage of the activity

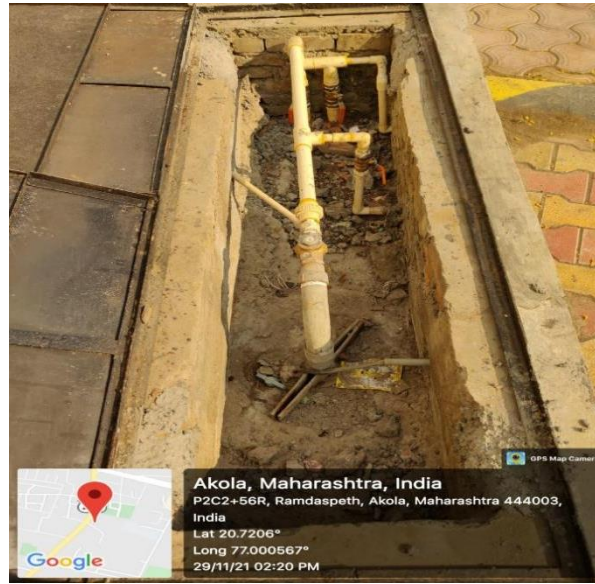


Poster and Model Competition

### Borewell and Recharge



Bore well in Botanical Garden



Bore well near entrance gate



Water recharge Facility



Bore Well near Girls Hostel



### Construction of tanks



**Underground Tank near the Department of Chemistry (Capacity 25000 lit.)**

### Overhead Tank with Water Distribution

