



SRM MADURAI
COLLEGE FOR ENGINEERING AND TECHNOLOGY
Approved by AICTE, New Delhi | Affiliated to Anna University, Chennai



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**NATIONAL SOCIETY FOR FLUID MECHANICS AND
FLUID POWER
AND
DEPARTMENT OF CIVIL ENGINEERING
ORGANIZES A WEBINAR
ON**



**ADVANCED RAINWATER HARVESTING
SYSTEMS
(MANAGED AQUIFER RECHARGE SYSTEMS)**

RESOURCE PERSON

**Mr. VENKATESH SUNDARAPANDIAN
PROJECT ENGINEER
MEIZHUAN BUILDERS Pvt Ltd
SINGAPORE**



05-04-2024, at 3.00 PM

Hosting Platform : Google Meet

Registration Link : <https://meet.google.com/tox-jcms-eor>

We cordially invite all Students to join the Webinar..!

Coordinator
Dr. V.Gowri,
ASP/Civil

Co-Convener
Dr. V.Gowri,
HoD - CIVIL

Convener
Dr. S. DURAIRAJ
PRINCIPAL



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WWW.SRMMCET.EDU.IN

V Venkatesh Sundarapandian (Presenting)

Map Explain India's Growing Water Risks

54%
of India
Faces
**High to
Extremely
High
High**
Water Stress

Source
World Resources Institute dated February 26, 2015

Quantitative Water Stress (with/without available supply)

- Low (<10%)
- Low to Medium (10-20%)
- Medium to High (20-40%)
- High (40-60%)
- Extremely High (>60%)
- Arctic & Low Water Use

www.indiawatertool.in WORL

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V Venkatesh Sundarapandian (Presenting)

News Letter Report dated Thursday 04 April 2024

Zimbabwe declares El Nino drought a national disaster

MARY TARUVINDA
Thu, 4 April 2024 at 0:57:20 GMT - 3 mins read

In this article:
Zimbabwean Meteorology

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Venkatesh Sun... S. Megaammu Krishna Kuma... Raj Kumar 4 others Gowri V

Activities

V Venkatesh Sundarapandian (Presenting)

News Letter Report dated Tuesday 22 August 2023

DownToEarth

clean water is also considered as absence of access to water.

Water availability decline is steep in low- and lower-middle-income countries, mostly in Asia, which has the least amount of water but has the highest water withdrawal rate.

Estimates show that if the global water availability decline continues, 87 out of 180 countries will have annual renewable water resources (ARWR) per capita below 1,700 cubic metres per year (m³/year) by 2050. The number of countries with absolute water scarcity—ARWR per capita below 500 cubic metres/year—is projected to increase from 25 in 2015 to 45 by 2050.

India sustains 17.74 per cent of the world's population with just 4.5 per cent of its freshwater resources. On the face of it, the country seems to be heading towards water shortage. However, the water budget proposed by T N Narsimhan and V K Gaur in 2009 shows that the country still maintains a balance between water demand and supply.

The water budget says that India's average annual rainfall of 1,170 mm yields 3,838 cubic kilometres (cu km) of water. Of the total rainfall, 1,869 cu km constitutes average annual potential flow in rivers, while 432 cu km replenish the

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V Venkatesh Sundarapandian (Presenting)

Fresh water Demand vs Amount of water Getting

DEMAND OF WATER
Water Demand is the measure of the total amount of water used by the users within the water system.

- Domestic Water demand
- Industrial Water demand
- Agricultural Water demand
- Hydroelectric Water demand

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V Venkatesh Sun...

S. S. Megaammu

Thiru Moorthy

P Krishna Kumar...

5 others

G Gowri V

V Venkatesh Sundarapandian (Presenting)

Ancient Rainwater Harvesting Systems in India

Ramtek Model - Maharashtra

Eri - Tamil Nadu

Zabo - Nagaland

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S. S. Megaammu

Thiru Moorthy

P Krishna Kumar...

5 others

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V Venkatesh Sundarapandian (Presenting)

Ancient Rainwater Harvesting Systems in India

Panam Keni - Kerala

Baoli

V Venkatesh Sun...

S. S. Megaammu

Thiru Moorthy

P Krishna Kumar...

6 others

G Gowri V