

Quarterly magazine in Earth, Energy and Environment Sciences

# CLIMATE CHANGE

The initiative for a Collective Action

SEPTEMBER 2025 VOLUME 1

www.greensapien.com





# **TABLE OF CONTENTS**

Prerace	1
Greensapien	2
Messages	3
Climate Change: Time for collective effort for its mitigation	4
Clean Energy: India's potential in utilizing Hydrogen as the major energy source	X
Carbon sequestration: The potential of Indo-Gangetic plains for long-term sequestration of carbon dioxide using ERW technique	X
Planet vs Plastic: The case of the toothbrush	X
The impact of climate change on fluvial geomorphology	Х
Effect of climate change on Himalaya stability	X
Articles from EARTHFEST 1.0	X
News: Recent scientific breakthroughs	×
Sponsors	X







#### In House Editors

Sunil Kumar, PhD (Petroleum Engineering) Energy Science Wing Sciglyph Exploration Private Limited Patna (Bihar) 801105

Gyan Prakash Satyam, PhD (Geomorphology) Earth and Planetary Science Wing Sciglyph Exploration Private Limited Patna (Bihar) 801105 Sirish Kumar, PhD (Geochemistry) Earth and Planetary Science Wing Sciglyph Exploration Private Limited Patna (Bihar) 801105

## **Senior Editor**

Harshavardhan Kumar, PhD (Geochemistry) Assistant Professor, Department of Geology, St. Columba's College, Hazaribag-825303 Jharkhand, India

## **Associate Editors**

Ranjit Kumar Paswan, PhD (Geo-Technical Engineering) Senior Scientist & Assistant Professor (AcSIR) CSIR-Central Institute of Mining & Fuel Research, Dhanbad-826015, Jharkhand,, India

Ravi Shankar, PhD (Applied Geology)
Assistant Professor, Department of Science and Humanities
Bakhtiyarpur College of Engineering , Bakhtiyarpur
Patna, Bihar
India 803212

Ashok Kumar Singh, PhD (Engineering Geology)
Scientist, Geo-technical Engineering & Underground Space
Utilisation Group
CSIR-Central Institute of Mining & Fuel Research, Roorkee-247667,
Uttarakhand, India

#### **PREFACE**



Welcome to the inaugural issue of the Greensapien Record, where we publish technical notes, scientific discussions, urgent dialogue, short reports, and new findings in the domain of Earth and Planetary Science, Energy and Environmental Science and Engineering. Greensapien Record is a quarterly magazine which is freely available for readers on our digital space <a href="https://www.greensapien.com">www.greensapien.com</a>.

In the face of unprecedented environmental shifts, understanding the intricate dynamics of our planet's system is paramount to shaping a sustainable future for generations to come. In these pages, we embark on a compelling exploration of the profound impacts of climate change on our planet's ecosystems, communities, and economies. Through rigorous scientific analysis, compelling narratives, and innovative solutions, we strive to illuminate the complexities of Earth, Energy and Environmental Science and inspire collective action towards mitigation and adaptation strategies.

As the consequences of climate change and other relevant issues become increasingly evident, we are confronted with a pivotal moment in human history—a moment that demands bold innovation, unwavering commitment, and international cooperation. Our magazine serves as a platform for amplifying diverse voices, sharing groundbreaking research, and fostering a dialogue that transcends boundaries and fosters a shared responsibility for our planet's future. Through knowledge, advocacy, and collaboration, we can forge a path towards a future where humanity and nature thrive in harmony. Thank you for joining us on this vital journey towards a more climate-resilient world

**GREENSAPIEN TEAM** 

#### **GREENSAPIEN**



We started Greensapien to positively impact the world regarding climate change and global warming. The Greensapien word was coined by Sciglyph Exploration®, which represents specific homo-sapiens who are concerned about global warming and keen to put their effort towards its mitigation. We are a brand whose sole mission is to eradicate global warming with a global effort. Since 2023 we come up with this theme where we try to connect people on a global scale through our platform and allow them to mark their role in climate control projects designed and executed by Sciglyph Exploration® the parent company of Greensapien. We believe winning the challenge against global warming can only be entirely possible when every individual plays their role. We develop tools, techniques, activities and products for community engagement and awareness of global warming climate change and Earth-related issues. Any individual from anywhere on this planet can feel proud by engaging with us because his/her one simple step is not only educating the society towards our planet and the negative anthropogenic effect on it but also their engagement makes it possible to mitigate a certain amount of greenhouse gases from the atmosphere. So engaging with Greensapien can be a remarkable step in achieving a net zero by 2050 with a global effort.

We believe that awareness, action, and alternative (the 3 A) are the keys to fighting global warming and climate change. These 3 A are the three pillars of our functioning at Greensapien whereas the fourth pillar is the research and development unit of our parent company (Sciglyph Exploration). In the awareness section, we design creative and innovative activities where students and any individual can participate and drive awareness at an accelerated rate. The action section is responsible for installing and executing projects designed and developed by Sciglyph for the eradication of issues like global warming, pollution, etc. The activities in the action section involve afforestation, urban forestation, carbon sequestration, waste management etc. The alternative section designs and develops, eco-friendly products to replace the plastic, polyester and nylon-based products from our daily life.