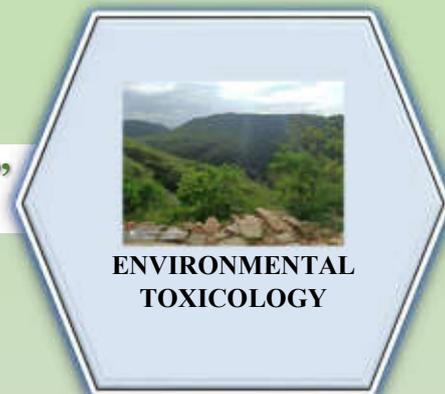


**“BE KIND TO MOTHER NATURE”**



**INTERNATIONAL CONFERENCE**

**ON**

**MULTIDISCIPLINARY APPROACH TOWARDS  
SUSTAINABLE DEVELOPMENT AND CLIMATE CHANGE  
FOR A VIABLE FUTURE (ICMSDC-2022)**

**FUNDED BY**

**COMPONENT 8- ENHANCING QUALITY AND EXCELLENCE  
(RUSA-2)**

**DATE- 11<sup>TH</sup> -13<sup>TH</sup> AUGUST 2022**

**ORGANISED BY**

**RAJ RISHI GOVT. AUTONOMOUS COLLEGE ALWAR-301001  
RAJASTHAN, INDIA**



## **ABOUT UNIVERSITY**

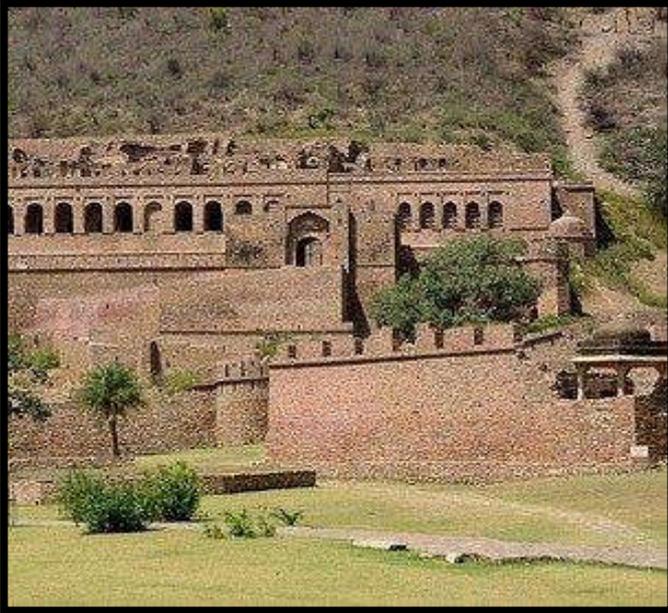
Establishment of Raj Rishi Bhartrihari Matsya University (RRBMU), Alwar was announced in budget speech of 2012-13 by Hon'ble chief minister of Rajasthan. Gazette notification of University was done on 23-08-2012 (Matsya University Act, 2012 No. 29). According to notification No. 203 (3) March 04, 2015 of the Rajasthan Government jurisdiction on RRBMU, Alwar spread over the all-academic, teachers training and law colleges of Alwar district. RRBMU, Alwar is the only University in Rajasthan catering to the needs of the students of Alwar district. Since the University is located in the Matsya-Mewat region of Rajasthan within the Aravali hills, the University thus imparts education and conducts research on the various aspects of this region.

## **ABOUT COLLEGE**

Raj Rishi Government (Autonomous) College (RRC), Alwar is one of the premier colleges of the state of Rajasthan. It is a Co-educational, Post graduate, Research institute and the only Autonomous College in the Government sector in Rajasthan. It was established in 1930 by His Highness of Alwar, Raj Rishi Maharaja Jai Singh Ji, an Educationalist entrepreneur who had a vision to empower the people of his native town through education. Thus, catering to the needs of the community in a comparatively educationally backward region of Rajasthan, the college is proudly completing its 91 years of glorious existence with student strength of about 4000 and faculty strength of 69. The college is situated on a sprawling and sylvan campus of more than 250 acres of land in Alwar, ideally located between state capital Jaipur and national capital New Delhi. The College has a cluster of beautiful and spacious buildings with sufficient number of class rooms, computer laboratories, science laboratories and an independent stadium with a number of playgrounds.

## **ABOUT ALWAR**

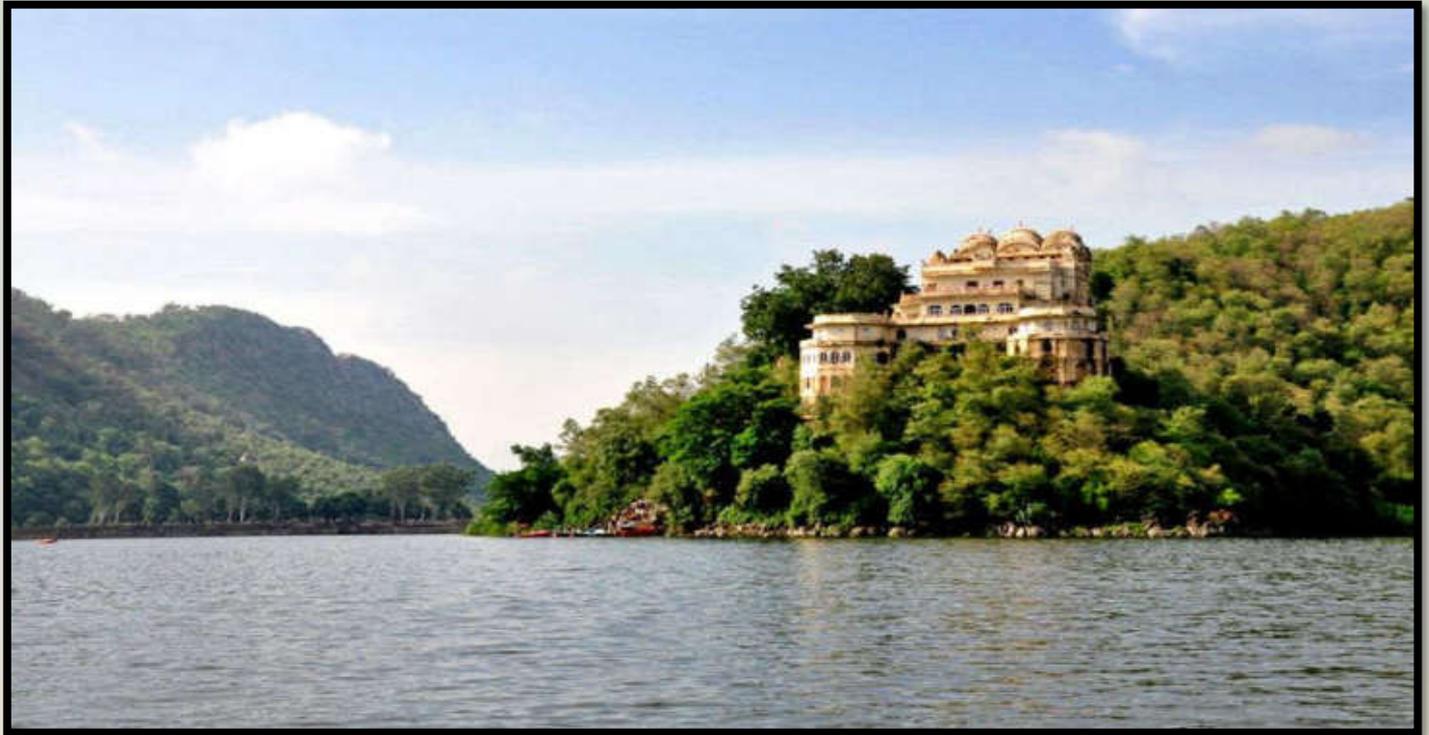
Surrounded by the Aravali hills, Alwar is a breath-taking city of rich culture and heritage. Alwar has retained its charm from the past. The majestic fort, beautiful City Palace and the colourful markets make it one of the most interesting cities in Rajasthan. Alwar has been one of the oldest of Rajasthani Kingdoms and one of the first Rajput states to align itself with the British Empire. It is most famous for two things - its milk cake also known as 'Alwar-ka-mawa', and for its fort. The main attractions include the beautiful Bala Qila, Sariska Wildlife Sanctuary, Bhangarh Fort and Siliserh Lake. The Alwar district has 18 Tehsils and accommodates luscious parks, renowned colleges and industries. A landmark of true history, Alwar city savours the quaintness and simple life of its residents. Riddled with Rajput dynasty and folklore, Alwar city is one of the jewels of Rajasthan.



**BHANGARH FORT**



**BALA QILA**



**SILISERH LAKE**



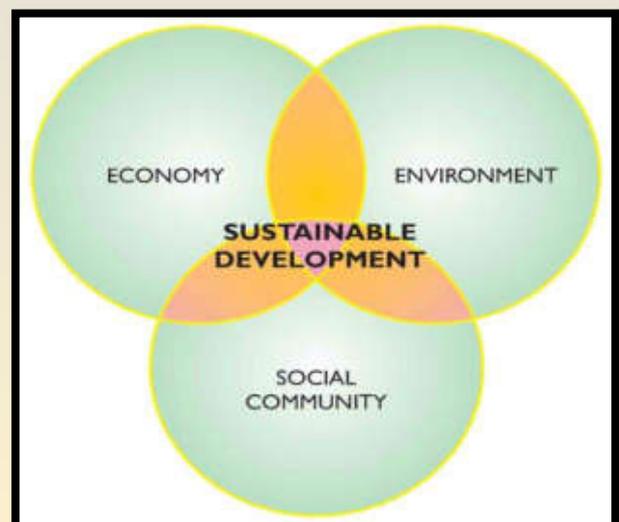
**SARISKA WILDLIFE SANCTUARY**

## WHY SUSTAINABLE DEVELOPMENT?

*Our biggest challenge in this new century is to take an idea that seems abstract- Sustainable Development- and turn it into a reality for all the world's people.*

*-Kofi Annan*

Sustainable development is development that meets the needs of the present without compromising the ability of future generations to meet their own needs. The essence of this form of development is a stable relationship between human activities and the natural world, which does not diminish the prospects for future generations to enjoy a quality of life at least as good as our own. The concept of sustainable development, although had appeared in the 1970s, was widely disseminated in the early 1980s by the 'World Conservation Strategy' (IUCN, UNEP and WWF, 1980), which called for the maintenance of essential ecological processes; the preservation of biodiversity; and sustainable use of species and ecosystems. Sustainable development encourages us to conserve and enhance our resource base, by gradually changing the ways in which we develop and use technologies. Countries must be allowed to meet their basic needs of employment, food, energy, water and sanitation. If this is to be done in a sustainable manner, then there is a definite need for a sustainable level of population. Economic growth should be supported and developing nations should be allowed a growth of equal quality to the developed nations. The other agenda is understanding ESG which stands for Environmental, Social, and (Corporate) Governance, the three broad categories, or areas, of interest for what is termed "socially responsible investors." They are investors who consider it important to incorporate their values and concerns (such as environmental concerns) into their selection of investments instead of simply considering the potential profitability and/or risk presented by an investment opportunity. Environmental criteria include a company's use of renewable energy sources, its waste management program, how it handles potential problems of air or water pollution arising from its operations, deforestation issues (if applicable), and its attitude and actions around climate change issues. The aim of sustainable development is to balance our economic, environmental and social needs, allowing prosperity for now and future generations. Sustainable development consists of a long-term, integrated approach to developing and achieving a healthy community by jointly addressing economic, environmental, and social issues, whilst avoiding the over consumption of key natural resources.

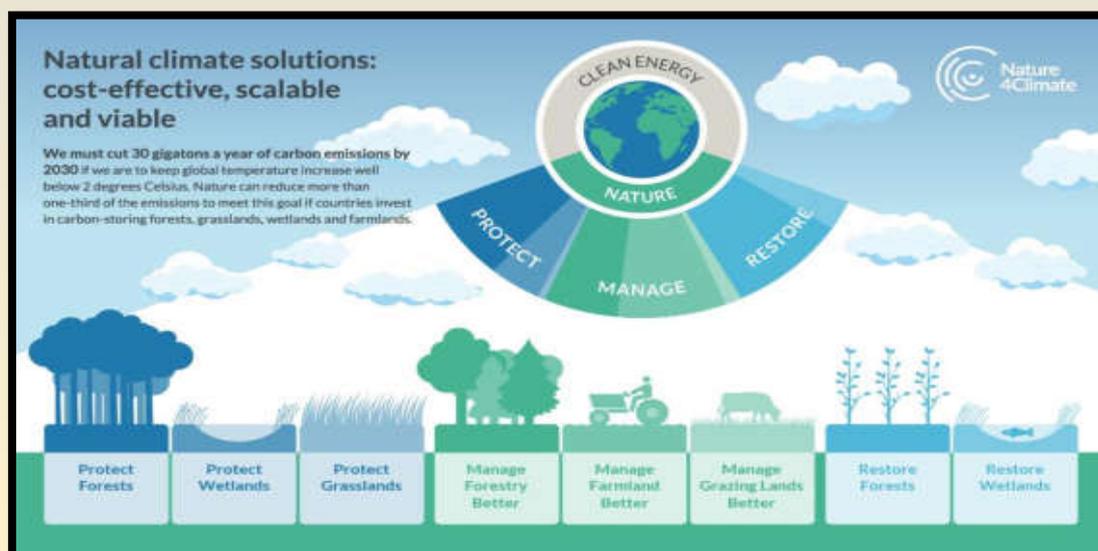


## WHY IT IS IMPORTANT TO STOP CLIMATE CHANGE.

*Climate change isn't just an Environmental issue; it's a technology, water, food, energy, population issue. None of this happens in a vacuum.*

*- David Titley*

Climate change refers to long-term shifts in temperatures and weather patterns. These shifts may be natural, such as through variations in the solar cycle. But since the 1800s, human activities have been the main driver of climate change, primarily due to burning fossil fuels like coal, oil and gas. Burning fossil fuels generates greenhouse gas emissions that act like a blanket wrapped around the Earth, trapping the sun's heat and raising temperatures. Examples of greenhouse gas emissions that are causing climate change include carbon dioxide and methane. These come from using gasoline for driving a car or coal for heating a building, for example. Clearing land and forests can also release carbon dioxide. Landfills for garbage are a major source of methane emissions. Energy, industry, transport, buildings, agriculture and land use are among the main emitters. Climate change can affect our health, ability to grow food, housing, safety and work. Some of us are already more vulnerable to climate impacts, such as people living in small island nations and other developing countries. Conditions like sea-level rise and saltwater intrusion have advanced to the point where whole communities have had to relocate, and protracted droughts are putting people at risk of famine. In the future, the number of "climate refugees" is expected to rise. Many climate change solutions can deliver economic benefits while improving our lives and protecting the environment. We also have global frameworks and agreements to guide progress, such as the Sustainable Development Goals (SDGs), the UN Framework Convention on Climate Change and the Paris Agreement. Three broad categories of action are: cutting emissions, adapting to climate impacts and financing required adjustments. Switching energy systems from fossil fuels to renewables like solar or wind will reduce the emissions driving climate change. But we have to start right now. While a growing coalition of countries is committing to net zero emissions by 2050, about half of emissions cuts must be in place by 2030 to keep warming below 1.5°C. Fossil fuel production must decline by roughly 6 per cent per year between 2020 and 2030. Adapting to climate consequences protects people, homes, businesses, livelihoods, infrastructure and natural ecosystems. It covers current impacts and those likely in the future. Adaptation will be required everywhere, but must be prioritized now for the most vulnerable people with the fewest resources to cope with climate hazards. The rate of return can be high. Early warning systems for disasters, for instance, save lives and property, and can deliver benefits up to 10 times the initial cost. We need to realise that we can pay the bill now, or pay dearly in the future.



## MODE OF CONDUCT

The Conference will be conducted in Hybrid mode i.e., it will be primarily conducted in the Offline mode but seeing the Covid-19 pandemic scenario, one or two sessions depending upon the response received from overseas will be conducted in Virtual mode.

All the sessions including the Inaugural, Valedictory and Award ceremony will be conducted in Offline mode.

## AIM

*For in the true nature of things, if we rightly consider, every green tree is far more glorious than if it were made of gold and silver.*

*- Martin Luther King Jr.*

•The Conference mainly aims to provide an academic platform for Academicians, Scientists, Engineers, Researchers, Professionals, Practitioners, Consultants and Students to present and discuss their latest findings about Sustainable Development and Climate change. Relevance of the proposed Conference will be highlighted through a series of lectures delivered by prominent industry and academia experts.

## GUIDELINES TO AUTHORS

### FOR ABSTRACT-

- Correct name, designation, email ID of the author/s and affiliating institution need to be clearly mentioned in the abstract.
- An abstract should not be more than 250 words. Along with the abstract, authors must send 5 key words only. Abstract should be sent as Word Document only.

### FOR RESEARCH PAPER-

- Correct name, designation, email ID of the author/s and affiliating institution need to be mentioned in the paper. The abstract must be attached with the paper.
- The full text of the paper shall not exceed 10 pages. Use APA reference style, 12 font, Times new Roman.
- The maximum number of papers allowed per author is 1 for the conference.

### FOR POSTER PRESENTATION-

- Correct name, designation, email ID of the author/s and affiliating institution need to be mentioned on the poster.
- The size of the poster should be 4ft x 5ft (48" x 60") clearly depicting the theme and the outcome of the Research Topic.
- The poster should be brought for presentation at the Conference and submitted at the registration desk. The participant must prepare a 3-5 min verbal description of the poster.
- Delegates who are unable to attend in person can send their posters to the Conference Secretariat and a 3 min recorded video addressing their poster on the email id- [icmsdc2022@gmail.com](mailto:icmsdc2022@gmail.com) .

## CALL FOR PAPERS

We invite you to present your research paper before prestigious audience in this Conference and catch up on the latest trends in the field of sustainable development and climate change to develop ideas for your next research project.

The Conference calls for high-quality research papers related to Life Sciences, Physics, Chemistry, Mathematics, Pharmacy, Environment, Toxicology, Medical Sciences, Engineering, Humanities, Commerce, Management, Economics, Computer Science, Law and Judiciary, Travel and Tourism and Interdisciplinary subjects and their themes and sub themes. Maximum number of paper presentations permissible for each participant is one.

The Conference will have multiple broad research tracks. If you have any questions about submitting to any particular track, contact the Organising Secretary through following email: [icmsdc2022@gmail.com](mailto:icmsdc2022@gmail.com).

## PUBLICATION OF CONFERENCE PROCEEDINGS AND PAPERS

**Publication of Papers:** All the papers presented in the Conference will be published in a series of International books on multidisciplinary approach towards Sustainable development and Climate Change with an authentic ISBN number. The books will be jointly published from India and Canada. **There will be no extra charge for the publication i.e., it will be done free of cost.**

**Publication of Abstracts:** The entire lot of abstracts received will be published in the Proceedings of the Conference in the form of hard copy which will be distributed with the Conference Kit at the registration desk on the first day of the conference.

**NOTE:** - All communications pertaining to the Conference, abstracts and the full papers must be sent to the Organising Secretary- [icmsdc2022@gmail.com](mailto:icmsdc2022@gmail.com).

## CONFERENCE REGISTRATION FEE

Category	Registration Fee	On the Spot
Delegates from Industry	3000 ₹	3500 ₹
Professor/Lecturer	1000 ₹	1500 ₹
Research Scholar	750 ₹	1000 ₹
Student	500 ₹	800 ₹
Delegates from Overseas	50\$	100\$

## HOW TO REGISTER

All those who want to participate in the Conference need to register for the Conference. The link for the registration form is sent along with the brochure. Please fill this form when you are sending the abstract on the email – [icmsdc2022@gmail.com](mailto:icmsdc2022@gmail.com). Participants who do not want to present papers but want to attend the Conference are also welcome to register. They need to register using the registration form using the given link.

**Kindly be careful while filling the information in the registration form as these details will be used to make the Conference Certificates.**

**Please use the following link to Google form to register and fill the credentials.**

[https://docs.google.com/forms/d/e/1FAIpQLSeh5uBigLx4L8CGyXiNh65I7h9Oafip6f6ZYK8dtmCso1kOLA/viewform?usp=sf\\_link](https://docs.google.com/forms/d/e/1FAIpQLSeh5uBigLx4L8CGyXiNh65I7h9Oafip6f6ZYK8dtmCso1kOLA/viewform?usp=sf_link)

## Payment

The ICMSDC Conference is open for everyone under the target group. Eligible participants must pay the registration fee as per their designation through online payment/bank transfer.

- **Account holders' name: ICMSDC-2022**
- **Bank: AXIS BANK, ALWAR**
- **Account number: 921010053107427**
- **IFS Code: UTIB0000401**

## Joining of the WhatsApp group

Join any of the following WhatsApp groups to stay updated about the Conference. Link to the Online Sessions, Feedback Form and Certificates would also be shared on the groups only.

Group 1- <https://chat.whatsapp.com/FUc6X2uMnDKFqI1H5gVrog>

Group 2- <https://chat.whatsapp.com/J7hY2tY91FG1gxMHeseM6d>

Group 3- <https://chat.whatsapp.com/JRPWFoVvnlvGriENgjXzDI>

Group 4- <https://chat.whatsapp.com/L6P2qDiyxWyAgg4PTVtW73>

## Joining of the Telegram group

Join the following Telegram group via the given link to stay updated about the Conference.

Telegram Group- [https://t.me/+ItKa\\_qT\\_zjU5MWM1](https://t.me/+ItKa_qT_zjU5MWM1)

## CONFERENCE CERTIFICATE

A Certificate will be awarded to each participant on the successful completion of the Conference programme only after attending the full conference.

## ACCOLADES OF THE CONFERENCE

The following awards will be presented at the Conference-

- **BEST ORAL PRESENTATION AWARD** (Winner, 1<sup>st</sup> Runner Up, 2<sup>nd</sup> Runner up)
- **BEST POSTER PRESENTATION AWARD** (Winner, 1<sup>st</sup> Runner Up, 2<sup>nd</sup> Runner up)
- **BEST INNOVATION AWARD** (Winner, 1<sup>st</sup> Runner Up, 2<sup>nd</sup> Runner up)

## VENUE

The venue for the Conference-

### PRATAP AUDITORIUM

GJV6+64C, SONAVA DUNGRI, ARAVALI VIHAR,  
ALWAR (301001), RAJASTHAN, INDIA



# TENTATIVE PLAN FOR THE THREE-DAY CONFERENCE

## DAY-1 (11<sup>TH</sup> AUGUST 2022)

- Registration
- Inauguration
- Keynote Address - I
- Technical Session - I
- Technical Session - II
- Free Forum and Feedback
- Cultural Programme

## DAY-2 (12<sup>TH</sup> AUGUST 2022)

- Recap of the 1<sup>st</sup> day
- Keynote Address - II
- Keynote Address - III
- Technical Session - III
- Technical Session - IV
- Free Forum and Feedback
- Conference Dinner

## DAY-3 (13<sup>TH</sup> AUGUST 2022)

- Recap of the 2<sup>nd</sup> day
- Keynote Address - IV
- Technical Session - V
- Free Forum and Feedback
- Valedictory Session

## DATES TO REMEMBER

<b>Last date for Registration:</b> (Delegates can also register only for participation as well)	<b>9<sup>th</sup> August 2022, 23.59 hours</b>
<b>Last date for Abstract submission:</b>	<b>15<sup>th</sup> July 2022, 23.59 hours</b>
<b>Last date for Full length paper submission:</b>	<b>25<sup>th</sup> July 2022, 23.59 hours</b>

## ORGANISERS

### *PATRON & PRINCIPAL*



**Prof. (Dr.) Hukam Singh**  
Principal, RRC, Alwar

### *CONVENER*



**Dr. Upendra Singh**  
Nodal Officer, RUSA  
&  
Associate Professor  
RRC, Alwar

### *ORGANISING SECRETARY*



**Dr. Mamta Sharma**  
Member, RUSA  
&  
Associate Professor  
RRC, Alwar

## ORGANISING COMMITTEE

- 1. Dr. Om Pal Yadav**  
Associate Professor, RRC, Alwar
- 2. Dr. Rama Nand Yadav**  
Associate Professor, RRC, Alwar
- 3. Dr. Sudha Sukhwal Shringi**  
Associate Professor, RRC, Alwar
- 4. Dr. Jagat Pal Singh**  
Associate Professor, RRC, Alwar
- 5. Dr. Ravi Kumar Vijai**  
Associate Professor, RRC, Alwar
- 6. Dr. Akhlesh Meena**  
Associate Professor, RRC, Alwar
- 7. Mr. Shahnawaj Khan**  
Assistant Professor, RRC, Alwar
- 8. Mr. Shahshikant Jatav**  
Assistant Professor, RRC, Alwar
- 9. Mr. Manish Kumar Sharma**  
Assistant Professor, RRC, Alwar
- 10. Ms. Laxmi Bai Meena**  
Assistant Professor, RRC, Alwar
- 11. Mr. Yogesh Kumar**  
Assistant Accounts Officer  
RRC, Alwar

## ADVISORY COMMITTEE

- 1. Dr. S.J.S Flora**  
Ex-Director  
National Institute of Pharmaceutical Education  
and Research- Raebareli, (U.P.), India
- 2. Dr. Pradeep Bhatnagar**  
Dean, Faculty of Sciences  
The IIS University, Jaipur  
& Former HOD, Zoology  
University of Rajasthan, Jaipur, India
- 3. Prof. Reena Mathur**  
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University of Rajasthan, Jaipur, India
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Former HOD, Chemistry  
University of Rajasthan, Jaipur, India
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Associate Professor  
Kebri Dehar University, Ethiopia
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Professor  
University of Tech & Applied Sciences  
Oman
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HOD, Forensic Medicine &  
Toxicology, AIIMS, Hyderabad, India

**11. Dr. Jaswinder S. Sandhu**

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Brampton, Canada

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CSIR- Indian Institute of Integrative  
Medicine, Jammu, India

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University of Kashmir, Srinagar, India

**14. Dr. Neeraj Sharma**

Professor  
Mohanlal Sukhadia University,  
Udaipur, India

**15. Dr. Ram Singh Chauhan**

Professor  
University of Rajasthan, Jaipur, India

**16. Dr. Yaad Ram Meena**

Professor  
Jai Narain Vyas University  
Jodhpur, India

**17. Dr. Sunita Aggarwal**

HOD, Botany  
RRC, Alwar

**18. Dr. Ravikant Sharma**

HOD, Maths  
RRC, Alwar

**19. Dr. Seema Gulati**

HOD, Chemistry  
RRC, Alwar

**20. Dr. Kalpana Soni**

HOD, Zoology  
RRC, Alwar

**21. Ms. Madhu Gupta**

HOD, Physics  
RRC, Alwar

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**POC FOR CONFERENCE**

**DR. MAMTA SHARMA  
MS. MUSKAN DATA**

**CONFERENCE SECRETARIAT-  
ENVIRONMENTAL TOXICOLOGY RESEARCH LAB**

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