



# RAESET - 2016

## CONFERENCE PROCEEDINGS

National Conference on  
Recent Advances in Environmental Sciences  
and Engineering Technologies

November 21 - 22, 2016

Organized by :

Department of Chemistry  
and Department of Civil Engineering

Editor : Dr. Kamini Sharma

Co-Editor : Ms. Kiran Bhoot

**Published by :**

**Jodhpur Institute of  
Engineering and Technology**

Web. : [www.jietjodhpur.ac.in](http://www.jietjodhpur.ac.in)

# **RAESET – 2016**

## **CONFERENCE PROCEEDINGS**

**National Conference on  
Recent Advances in environmental Sciences  
and Engineering Technologies**

**November 21-22, 2016**

**Organized by:**

**Department of Chemistry**

**And Department of Civil Engineering**

**Editor : Dr. Kamini Sharma**

**Co-Editor : Ms. Kiran Bhoot**

**ISBN : 978-81-933572-0-0**

**Price: 500/-**

S. No.	TITLE OF PAPER	AUTHOR	E-mail ID	CO- AUTHORS
1	Adsorptive and Kinetic Studies of Resin for Removal of Cesium (I) and Strontium (II) from Aqueous Solution	Rajesh Kumar	rnunia@rediffmail.com	P. Malodia, M. Kachwaha and Sunita Verma
2	Antibacterial Activity Study Of Isatin Nanoparticles Against Methicillin Resistant S. Aureus (Mrsa)	Jaishree Badiger	Jaya.b27@gmail.com	Parveen R.
3	Treatability studies on in- situ chemical oxidation for the treatment and removal of color from groundwater	Manasvini Agarwal	manasviniagarwal@gmail.com, humasyed67@gmail.com	Huma S. Syed
4	Electrochemical sensors in environmental monitoring: developments, current trends and study representing application in pesticide analysis	Sushma Dave	<a href="mailto:Sushma.dave@jietjodhpur.ac.in">Sushma.dave@jietjodhpur.ac.in</a>	Sunita Kumbhat
5	Use of silica fume for sustainable and environmentally friendly R.C construction	Dr. Archana Bohra Gupta	<a href="mailto:archanabohragupta@gmail.com">archanabohragupta@gmail.com</a>	-
6	Physiochemical & heavy metal analysis of Amnishahnala, Jaipur	Narsi Ram Dewasi	narsiramdewasi@gmail.com kiran.bhoot@jietjodhpur.ac.in	Kiran Bhoot
7	Slow release of Hydrogen from Sodium Borohydride using different solvents	Anjanikumar Sharma	anjani.vashishtha@gmail.com	Jaymeen Chovatiya, J.P.Ruparelia
8	Stabilization of fine sand through waste cement bags strips as admixture for construction of embankments for roads	Ankit Laddha	Ankit.laddha@jietjodhpur.ac.in	-
9	Review On Fat Degradation From Dairy Industry Effluent By Using Ultrasonic System.	Falguni P Mistry	<a href="mailto:dollypmistry2493@gmail.com">dollypmistry2493@gmail.com</a> <a href="mailto:minarva.pandya@yahoo.com">minarva.pandya@yahoo.com</a>	Minarva J Pandya
10	Ecological Lubricants: A study on Physiochemical Properties of Seed oils and Their Blendws from Arid Zone of Rajasthan	Akleshwar Mathur	Akleshwar.mathur@jietjodhpur.ac.in	-
11	Biomonitoring of Water bodies using Benthic Macro invertebrates as bio- indicator of water quality	Nirav Kumar Dabhi	nd2814@gmail.com	Prof. Minarva. J. Pandya, M.H Bhadreacha

12	Spectral Behaviour Of 2,4-Dihydroxy Benzoic Acid In Micellar Media.	Seema Acharya	seema.aacharya@gmail.com	Praveena Ojha
13	Effluent Evaporation (Spray Drying): Technology For Zero Liquid Discharge -A Review	Chandorkar Archit Pramod	architchandorkar@gmail.com	-
14	Application of Nanoparticles as Adsorbents and Catalysts	Joshi Yash	<a href="mailto:13bch061@nirmauni.ac.in">13bch061@nirmauni.ac.in</a> <a href="mailto:13bch062@nirmauni.ac.in">13bch062@nirmauni.ac.in</a> <a href="mailto:jr@nirmauni.ac.in">jr@nirmauni.ac.in</a>	Chitrapu Yuga, Ruparelia. J.P
15	Phytoremediation of dye effluent using aquatic macrophyte	Akruti Patel	akruti_p@ymail.com	-
16	Review on the optimization of the treatment of dye intermediates waste water by hydrodynamic cavitation and its combinations	Bhasha C. Mehta	bcmehta92@gmail.com, humasyed67@gmail.com	Huma S. Syed
17	Determination of bowen ratio and its effect on aermod model predictions	Dharmin Jayant Gada	dharmingada@gmail.com	Prof. Huma Syed, Prof. Dr. N. S. Varandani
18	To study the impact of HHO Hybrit kit on the mileage and emissions of an IC Engine	Jaykumar Mehta	mehtajay.env@gmail.com	-
19	Application of Nanotechnology in Industrial Water treatment: A review	Shreyansh Tatiya	shreyansh8007@gmail.com	Dr. Anil Vyas, Dr. S.K Singh
20	Study for reducing the pollution by using "bacterial concrete"	Multan Ram	multanramprajapat@gmail.com	-
21	Study on Use of Fruit Peels Powder as a Fertilizer	Hiral Jariwala	jariwalahj@yahoo.com, humasyed67@gmail.com	Huma S. Syed
22	Solar photo reactors: A comprehensive review	Meet P. Shah	14bch058@nirmauni.ac.in	Rushabh Patel, Leena V. Bora, Rajubhai K. Mewada
23	Environmental concerns for a smart city- The European perspective	Dr. archana Bohra Gupta	archanabohragupta@gmail.com	
24	Resource optimization and Up-gradation of treatment plant as an approach towards Eco-Industrial Park	Dhruti Laxmikant Morekar	dhrutimorekar@gmail.com humasyed67@gmail.com	Huma S.Syed, Falguni P. Mistry
25	Efficiency Enhancement of Photovoltaic Modules: A Review of Cooling Techniques	Mr. Harish Kumar Khyani	harish.khyani@jietjodhpur.ac.in vineet.gehlot@jietjodhpur.ac.in balram.joshi@jietjodhpur.ac.in	Mr. Vineet Gehlot, Mr. Balram Joshi

26	Review Paper Indoor Air Quality: An Essential Aspect for Human Health	Vohra MohammadKalimuddin M.	mdkalimuddin7@gmail.com	Prof. Minarva J. Pandya
27	Effect of Use of Pesticides on Ground Water Quality in India : A Review	Sukhwant Singh	<a href="mailto:sukhipari@gmail.com">sukhipari@gmail.com</a>	Dr. Anil Vyas,Dr. S.K Singh
28	A comparative study of removal of nitrate from water :A review	Ruchika Purohit	vrinaa@gmail.com	Dr. Anil Vyas,Dr. S.K Singh
29	Deionization techniques for removal of total dissolved solids: a review	Pragya Bohra	pragyabohra4321@gmail.com	Dr. Anil Vyas,Dr. S.K Singh
30	Optimizing Radiations of Mobile Communication through DITMC Technique	Hemant Purohit	hemantpurohit2006@hotmail.com	
31	Effects of Air Pollution on Children's: A Review	Sandeep Mathur	<a href="mailto:sandeep19.mathur@gmail.com">sandeep19.mathur@gmail.com</a>	Dr. Anil Vyas,Dr. S.K Singh
32	Coordination mode of compounds modelling the interaction between the functional moiety and the donor atom	Dr.S Gaur	santwanagaurjnvu@gmail.com neelam.jatolia@gmail.com	santwanagaurjnvu@gmail.com neelam.jatolia@gmail.com
33	Co-Relation between Air Pollution and Cancer: A Review	Sumeet Mathur	<a href="mailto:sumeet19.mathur@gmail.com">sumeet19.mathur@gmail.com</a>	Dr. Anil Vyas,Dr. S.K Singh
34	Need of solar passive architecture in india	Priyanka Mehta	arpriyankamehta@gmail.com	
35	A Comparative Approach Towards Cyanide Waste Treatment Technology- Past and Present	Minarava J Pandya	minarva.pandya@yahoo.com, vanashrivlimaye@gmail.com	Vanashri V. Limaye
36	Wet Cyclone Separator as a Dust Collection Technology: A Literature Review	Darrell S. Merchant	darrell2624@gmail.com	Huma S. Syed
37	Effect of Hydraulic Retention Time (HRT) and Sludge Retention Time(SRT) For Sewage Treatment Using Membrane Bioreactor(MBR)	Vishani J Vora	<a href="mailto:voravishani@yahoo.com">voravishani@yahoo.com</a> minarva.pandya@yahoo.com,	Minarva J Pandya
38	Management and Health Effects of Hazardous Waste in India	Mayank vyas	vyas mayank90@gmail.com	Dr. Anil Vyas,Dr. S.K Singh